



# ComRails Volume TIMS5: AN TIMS Detailed Passenger Information

## TIMS5



The ComRails web site ([www.comrails.com](http://www.comrails.com)) can be downloaded as a series of printable documents in PDF format. This volume is an example of one of the volumes in the Comrails series.

The volumes are:

**Volume 1** Overview and Articles Information

**Volume 2** Carriage Information

**Volume 3** Freight Rollingstock Information

**Volume 4** Locomotive and Railcar Information

**Volume 5** War Time History of the Commonwealth Railways

**Volume 6** Route Information

**Volume 7** Master Rollingstock List

**TIMS1** Australian National Traffic Information Management System (TIMS) - Rollingstock Lists - this is a listing of all the rollingstock whose detailed records can be found in TIMS3 to TIMS6

**TIMS2** Australian National Traffic Information Management System (TIMS) - Route Index - basically a listing of all the track speed restrictions and temporary works

**TIMS3** Australian National Traffic Information Management System (TIMS) - Locomotive Rollingstock Records - this is the full detailed entry of all the locomotive rollingstock.

**TIMS4** Australian National Traffic Information Management System (TIMS) - Railcar Rollingstock Records - this is the full detailed entry of all the railcar rollingstock.

**TIMS5** Australian National Traffic Information Management System (TIMS) - Passenger Rollingstock Records - this is the full detailed entry of all the passenger rollingstock.

**TIMS6** Australian National Traffic Information Management System (TIMS) - Wagon Rollingstock Records - this is the full detailed entry of all the freight wagon rollingstock.



**Commonwealth, Australian National and  
South Australian  
Railways Rollingstock  
Volume TIMS5**

AN TIMS Detailed Passenger Information

This document is a printed version of the Comrails website. The site is where you will find various bits of information about the Commonwealth Railways, Australian National Railways, Great Southern Railways and the South Australian Railways.

The subject material is the South Australian, Commonwealth and Australian National Railways.

The Comrails web site can be found at <http://comrails.com>  
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Chris Drymalik

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# CONTENTS

<b>Contents</b>	<b>i</b>
<b>List of Tables</b>	<b>v</b>
<b>1 Australian National Traffic Information Management System (TIMS)</b>	<b>1</b>
<b>2 TIMS Group Information - Passenger</b>	<b>3</b>
2.1 Passengers Vehicle classification starting with 'Number Only' . .	9
2.2 Passengers Vehicle classification starting with 'AAH' . . . . .	32
2.3 Passengers Vehicle classification starting with 'AAL' . . . . .	33
2.4 Passengers Vehicle classification starting with 'AAR' . . . . .	33
2.5 Passengers Vehicle classification starting with 'ABE' . . . . .	34
2.6 Passengers Vehicle classification starting with 'ABL' . . . . .	34
2.7 Passengers Vehicle classification starting with 'ABS' . . . . .	35
2.8 Passengers Vehicle classification starting with 'ACC' . . . . .	36
2.9 Passengers Vehicle classification starting with 'ACH' . . . . .	38
2.10 Passengers Vehicle classification starting with 'ACS' . . . . .	38
2.11 Passengers Vehicle classification starting with 'ACZ' . . . . .	39
2.12 Passengers Vehicle classification starting with 'AD' . . . . .	41
2.13 Passengers Vehicle classification starting with 'AEC' . . . . .	41
2.14 Passengers Vehicle classification starting with 'AF' . . . . .	43
2.15 Passengers Vehicle classification starting with 'AFA' . . . . .	43
2.16 Passengers Vehicle classification starting with 'AFB' . . . . .	44
2.17 Passengers Vehicle classification starting with 'AFC' . . . . .	49
2.18 Passengers Vehicle classification starting with 'AG' . . . . .	70
2.19 Passengers Vehicle classification starting with 'AJ' . . . . .	82
2.20 Passengers Vehicle classification starting with 'AK' . . . . .	85
2.21 Passengers Vehicle classification starting with 'ALB' . . . . .	86
2.22 Passengers Vehicle classification starting with 'ALL' . . . . .	86
2.23 Passengers Vehicle classification starting with 'ANG' . . . . .	86
2.24 Passengers Vehicle classification starting with 'AOB' . . . . .	87
2.25 Passengers Vehicle classification starting with 'ARD' . . . . .	89
2.26 Passengers Vehicle classification starting with 'ARE' . . . . .	91
2.27 Passengers Vehicle classification starting with 'ARF' . . . . .	96



2.28	Passengers Vehicle classification starting with 'ARH' . . . . .	97
2.29	Passengers Vehicle classification starting with 'ARJ' . . . . .	98
2.30	Passengers Vehicle classification starting with 'ARL' . . . . .	133
2.31	Passengers Vehicle classification starting with 'ARM' . . . . .	198
2.32	Passengers Vehicle classification starting with 'AZ' . . . . .	217
2.33	Passengers Vehicle classification starting with 'BA' . . . . .	217
2.34	Passengers Vehicle classification starting with 'BAM' . . . . .	224
2.35	Passengers Vehicle classification starting with 'BB' . . . . .	226
2.36	Passengers Vehicle classification starting with 'BBA' . . . . .	227
2.37	Passengers Vehicle classification starting with 'BBL' . . . . .	227
2.38	Passengers Vehicle classification starting with 'BC' . . . . .	228
2.39	Passengers Vehicle classification starting with 'BCS' . . . . .	229
2.40	Passengers Vehicle classification starting with 'BD' . . . . .	229
2.41	Passengers Vehicle classification starting with 'BDS' . . . . .	230
2.42	Passengers Vehicle classification starting with 'BE' . . . . .	231
2.43	Passengers Vehicle classification starting with 'BF' . . . . .	234
2.44	Passengers Vehicle classification starting with 'BG' . . . . .	235
2.45	Passengers Vehicle classification starting with 'BH' . . . . .	241
2.46	Passengers Vehicle classification starting with 'BHM' . . . . .	243
2.47	Passengers Vehicle classification starting with 'BHZ' . . . . .	243
2.48	Passengers Vehicle classification starting with 'BJ' . . . . .	246
2.49	Passengers Vehicle classification starting with 'BK' . . . . .	253
2.50	Passengers Vehicle classification starting with 'BKL' . . . . .	254
2.51	Passengers Vehicle classification starting with 'BM' . . . . .	255
2.52	Passengers Vehicle classification starting with 'BR' . . . . .	256
2.53	Passengers Vehicle classification starting with 'BRA' . . . . .	260
2.54	Passengers Vehicle classification starting with 'BRB' . . . . .	261
2.55	Passengers Vehicle classification starting with 'BRD' . . . . .	263
2.56	Passengers Vehicle classification starting with 'BRE' . . . . .	264
2.57	Passengers Vehicle classification starting with 'BRF' . . . . .	271
2.58	Passengers Vehicle classification starting with 'BRG' . . . . .	276
2.59	Passengers Vehicle classification starting with 'BRJ' . . . . .	293
2.60	Passengers Vehicle classification starting with 'BRS' . . . . .	334
2.61	Passengers Vehicle classification starting with 'BSR' . . . . .	335
2.62	Passengers Vehicle classification starting with 'BV' . . . . .	336
2.63	Passengers Vehicle classification starting with 'BW' . . . . .	336
2.64	Passengers Vehicle classification starting with 'BZ' . . . . .	337
2.65	Passengers Vehicle classification starting with 'BZS' . . . . .	337
2.66	Passengers Vehicle classification starting with 'C' . . . . .	339
2.67	Passengers Vehicle classification starting with 'CAR' . . . . .	339
2.68	Passengers Vehicle classification starting with 'CB' . . . . .	340
2.69	Passengers Vehicle classification starting with 'CDF' . . . . .	340
2.70	Passengers Vehicle classification starting with 'CLU' . . . . .	357
2.71	Passengers Vehicle classification starting with 'COL' . . . . .	361
2.72	Passengers Vehicle classification starting with 'COO' . . . . .	361
2.73	Passengers Vehicle classification starting with 'CW' . . . . .	362

2.74	Passengers Vehicle classification starting with 'DAM' . . . . .	362
2.75	Passengers Vehicle classification starting with 'DC' . . . . .	363
2.76	Passengers Vehicle classification starting with 'DD' . . . . .	363
2.77	Passengers Vehicle classification starting with 'DE' . . . . .	365
2.78	Passengers Vehicle classification starting with 'DF' . . . . .	366
2.79	Passengers Vehicle classification starting with 'DOR' . . . . .	392
2.80	Passengers Vehicle classification starting with 'ECA' . . . . .	392
2.81	Passengers Vehicle classification starting with 'EFS' . . . . .	395
2.82	Passengers Vehicle classification starting with 'EI' . . . . .	395
2.83	Passengers Vehicle classification starting with 'FAM' . . . . .	396
2.84	Passengers Vehicle classification starting with 'FEN' . . . . .	398
2.85	Passengers Vehicle classification starting with 'FIN' . . . . .	398
2.86	Passengers Vehicle classification starting with 'FN' . . . . .	399
2.87	Passengers Vehicle classification starting with 'FNR' . . . . .	399
2.88	Passengers Vehicle classification starting with 'FRN' . . . . .	399
2.89	Passengers Vehicle classification starting with 'FSN' . . . . .	400
2.90	Passengers Vehicle classification starting with 'FSP' . . . . .	402
2.91	Passengers Vehicle classification starting with 'GOU' . . . . .	403
2.92	Passengers Vehicle classification starting with 'HFS' . . . . .	403
2.93	Passengers Vehicle classification starting with 'HNP' . . . . .	404
2.94	Passengers Vehicle classification starting with 'IND' . . . . .	405
2.95	Passengers Vehicle classification starting with 'INM' . . . . .	405
2.96	Passengers Vehicle classification starting with 'JRA' . . . . .	406
2.97	Passengers Vehicle classification starting with 'JRB' . . . . .	409
2.98	Passengers Vehicle classification starting with 'JTA' . . . . .	412
2.99	Passengers Vehicle classification starting with 'JTB' . . . . .	416
2.100	Passengers Vehicle classification starting with 'JUK' . . . . .	420
2.101	Passengers Vehicle classification starting with 'KUL' . . . . .	420
2.102	Passengers Vehicle classification starting with 'LAN' . . . . .	421
2.103	Passengers Vehicle classification starting with 'LOD' . . . . .	423
2.104	Passengers Vehicle classification starting with 'MAL' . . . . .	424
2.105	Passengers Vehicle classification starting with 'MBE' . . . . .	424
2.106	Passengers Vehicle classification starting with 'MCE' . . . . .	424
2.107	Passengers Vehicle classification starting with 'MFA' . . . . .	426
2.108	Passengers Vehicle classification starting with 'MFE' . . . . .	427
2.109	Passengers Vehicle classification starting with 'MFH' . . . . .	428
2.110	Passengers Vehicle classification starting with 'MFS' . . . . .	430
2.111	Passengers Vehicle classification starting with 'MHA' . . . . .	432
2.112	Passengers Vehicle classification starting with 'MOK' . . . . .	433
2.113	Passengers Vehicle classification starting with 'MUR' . . . . .	433
2.114	Passengers Vehicle classification starting with 'NAB' . . . . .	433
2.115	Passengers Vehicle classification starting with 'NAF' . . . . .	434
2.116	Passengers Vehicle classification starting with 'NAM' . . . . .	436
2.117	Passengers Vehicle classification starting with 'NAN' . . . . .	438
2.118	Passengers Vehicle classification starting with 'NAR' . . . . .	438
2.119	Passengers Vehicle classification starting with 'NDC' . . . . .	441

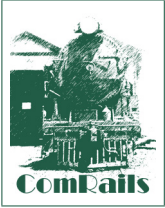
2.120 Passengers Vehicle classification starting with 'NDS' . . . . .	442
2.121 Passengers Vehicle classification starting with 'NFS' . . . . .	443
2.122 Passengers Vehicle classification starting with 'NHN' . . . . .	446
2.123 Passengers Vehicle classification starting with 'NOM' . . . . .	447
2.124 Passengers Vehicle classification starting with 'NSA' . . . . .	447
2.125 Passengers Vehicle classification starting with 'NSS' . . . . .	447
2.126 Passengers Vehicle classification starting with 'OVE' . . . . .	448
2.127 Passengers Vehicle classification starting with 'PEK' . . . . .	448
2.128 Passengers Vehicle classification starting with 'PFE' . . . . .	449
2.129 Passengers Vehicle classification starting with 'PUR' . . . . .	449
2.130 Passengers Vehicle classification starting with 'RBJ' . . . . .	449
2.131 Passengers Vehicle classification starting with 'RBS' . . . . .	453
2.132 Passengers Vehicle classification starting with 'RDH' . . . . .	453
2.133 Passengers Vehicle classification starting with 'RS' . . . . .	453
2.134 Passengers Vehicle classification starting with 'SBH' . . . . .	454
2.135 Passengers Vehicle classification starting with 'SBN' . . . . .	455
2.136 Passengers Vehicle classification starting with 'SBS' . . . . .	455
2.137 Passengers Vehicle classification starting with 'SCN' . . . . .	457
2.138 Passengers Vehicle classification starting with 'SDS' . . . . .	458
2.139 Passengers Vehicle classification starting with 'SDZ' . . . . .	463
2.140 Passengers Vehicle classification starting with 'SFN' . . . . .	464
2.141 Passengers Vehicle classification starting with 'SFS' . . . . .	464
2.142 Passengers Vehicle classification starting with 'SJ' . . . . .	467
2.143 Passengers Vehicle classification starting with 'SLE' . . . . .	467
2.144 Passengers Vehicle classification starting with 'SS' . . . . .	468
2.145 Passengers Vehicle classification starting with 'SSA' . . . . .	469
2.146 Passengers Vehicle classification starting with 'SSD' . . . . .	471
2.147 Passengers Vehicle classification starting with 'SX' . . . . .	472
2.148 Passengers Vehicle classification starting with 'SXV' . . . . .	477
2.149 Passengers Vehicle classification starting with 'SZ' . . . . .	479
2.150 Passengers Vehicle classification starting with 'TAM' . . . . .	479
2.151 Passengers Vehicle classification starting with 'TAN' . . . . .	480
2.152 Passengers Vehicle classification starting with 'TAP' . . . . .	480
2.153 Passengers Vehicle classification starting with 'TAR' . . . . .	480
2.154 Passengers Vehicle classification starting with 'VRS' . . . . .	480
2.155 Passengers Vehicle classification starting with 'WAN' . . . . .	481
2.156 Passengers Vehicle classification starting with 'WER' . . . . .	482
2.157 Passengers Vehicle classification starting with 'XAM' . . . . .	482
2.158 Passengers Vehicle classification starting with 'XFS' . . . . .	483
2.159 Passengers Vehicle classification starting with 'YAN' . . . . .	483

<b>A Abbreviations and Glossary of Terms</b>	<b>485</b>
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<b>B References and Bibliography</b>	<b>509</b>
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<b>Index</b>	<b>515</b>
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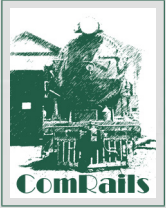


**TIMS5**

**LIST OF TABLES**

**B.1 Commonwealth Railways Files - Central Office . . . . . 514**





**TIMS5**

**CHAPTER**

**1**

**AUSTRALIAN NATIONAL TRAFFIC  
INFORMATION MANAGEMENT SYSTEM  
(TIMS)**

The data presented in the following pages was extracted from a report from the Australian National Traffic Information Management System (TIMS).

In early 2006 I was given a rather old copy of an extract of the Australian National TIMS database. The extract had a series of programs that allowed the user to review and update the information. Unfortunately these programs no longer worked with a modern computer system, so I needed to consider some possible solutions that allowed me to easily access the data:

1. I could fix the programs
2. read the raw data directly when I wanted to access any details or
3. convert the data into a more useable format.

I chose the last as being the best long term option to preserve the data so that it could be read more easily in the future. So I wrote a series of programs that converted the original data to series of web pages and indexes.

All the data presented in these pages is as it appears in the original extract except that it has been reformatting so that it actually made sense to a reader not familiar with the internal item codes. Dates have been converted to *dd.mm.yyyy* format, and special item codes have been expanded into full alphanumeric text. Not all fields made sense to me, but I have done my best to extract all the useful stuff. The indexes were generated automatically from an extensive series of programs that I wrote that parsed the original data extracting any usefull information.

Items of rollingstock have been grouped into pages via type code (Loco, Passenger, Railcar and Wagon) followed by the first three characters of the classification.

The data seems to have been current up to 30<sup>th</sup> May 1997.



## TIMS GROUP INFORMATION - PASSENGER

2.1	Passengers Vehicle classification starting with 'Number Only' . . .	9
2.2	Passengers Vehicle classification starting with 'AAH' . . . . .	32
2.3	Passengers Vehicle classification starting with 'AAL' . . . . .	33
2.4	Passengers Vehicle classification starting with 'AAR' . . . . .	33
2.5	Passengers Vehicle classification starting with 'ABE' . . . . .	34
2.6	Passengers Vehicle classification starting with 'ABL' . . . . .	34
2.7	Passengers Vehicle classification starting with 'ABS' . . . . .	35
2.8	Passengers Vehicle classification starting with 'ACC' . . . . .	36
2.9	Passengers Vehicle classification starting with 'ACH' . . . . .	38
2.10	Passengers Vehicle classification starting with 'ACS' . . . . .	38
2.11	Passengers Vehicle classification starting with 'ACZ' . . . . .	39
2.12	Passengers Vehicle classification starting with 'AD' . . . . .	41
2.13	Passengers Vehicle classification starting with 'AEC' . . . . .	41
2.14	Passengers Vehicle classification starting with 'AF' . . . . .	43
2.15	Passengers Vehicle classification starting with 'AFA' . . . . .	43
2.16	Passengers Vehicle classification starting with 'AFB' . . . . .	44
2.17	Passengers Vehicle classification starting with 'AFC' . . . . .	49
2.18	Passengers Vehicle classification starting with 'AG' . . . . .	70
2.19	Passengers Vehicle classification starting with 'AJ' . . . . .	82
2.20	Passengers Vehicle classification starting with 'AK' . . . . .	85
2.21	Passengers Vehicle classification starting with 'ALB' . . . . .	86

2.22	Passengers Vehicle classification starting with 'ALL' . . . . .	86
2.23	Passengers Vehicle classification starting with 'ANG' . . . . .	86
2.24	Passengers Vehicle classification starting with 'AOB' . . . . .	87
2.25	Passengers Vehicle classification starting with 'ARD' . . . . .	89
2.26	Passengers Vehicle classification starting with 'ARE' . . . . .	91
2.27	Passengers Vehicle classification starting with 'ARF' . . . . .	96
2.28	Passengers Vehicle classification starting with 'ARH' . . . . .	97
2.29	Passengers Vehicle classification starting with 'ARJ' . . . . .	98
2.30	Passengers Vehicle classification starting with 'ARL' . . . . .	133
2.31	Passengers Vehicle classification starting with 'ARM' . . . . .	198
2.32	Passengers Vehicle classification starting with 'AZ' . . . . .	217
2.33	Passengers Vehicle classification starting with 'BA' . . . . .	217
2.34	Passengers Vehicle classification starting with 'BAM' . . . . .	224
2.35	Passengers Vehicle classification starting with 'BB' . . . . .	226
2.36	Passengers Vehicle classification starting with 'BBA' . . . . .	227
2.37	Passengers Vehicle classification starting with 'BBL' . . . . .	227
2.38	Passengers Vehicle classification starting with 'BC' . . . . .	228
2.39	Passengers Vehicle classification starting with 'BCS' . . . . .	229
2.40	Passengers Vehicle classification starting with 'BD' . . . . .	229
2.41	Passengers Vehicle classification starting with 'BDS' . . . . .	230
2.42	Passengers Vehicle classification starting with 'BE' . . . . .	231
2.43	Passengers Vehicle classification starting with 'BF' . . . . .	234
2.44	Passengers Vehicle classification starting with 'BG' . . . . .	235
2.45	Passengers Vehicle classification starting with 'BH' . . . . .	241
2.46	Passengers Vehicle classification starting with 'BHM' . . . . .	243
2.47	Passengers Vehicle classification starting with 'BHZ' . . . . .	243
2.48	Passengers Vehicle classification starting with 'BJ' . . . . .	246
2.49	Passengers Vehicle classification starting with 'BK' . . . . .	253
2.50	Passengers Vehicle classification starting with 'BKL' . . . . .	254
2.51	Passengers Vehicle classification starting with 'BM' . . . . .	255
2.52	Passengers Vehicle classification starting with 'BR' . . . . .	256



2.53	Passengers Vehicle classification starting with 'BRA' . . . . .	260
2.54	Passengers Vehicle classification starting with 'BRB' . . . . .	261
2.55	Passengers Vehicle classification starting with 'BRD' . . . . .	263
2.56	Passengers Vehicle classification starting with 'BRE' . . . . .	264
2.57	Passengers Vehicle classification starting with 'BRF' . . . . .	271
2.58	Passengers Vehicle classification starting with 'BRG' . . . . .	276
2.59	Passengers Vehicle classification starting with 'BRJ' . . . . .	293
2.60	Passengers Vehicle classification starting with 'BRS' . . . . .	334
2.61	Passengers Vehicle classification starting with 'BSR' . . . . .	335
2.62	Passengers Vehicle classification starting with 'BV' . . . . .	336
2.63	Passengers Vehicle classification starting with 'BW' . . . . .	336
2.64	Passengers Vehicle classification starting with 'BZ' . . . . .	337
2.65	Passengers Vehicle classification starting with 'BZS' . . . . .	337
2.66	Passengers Vehicle classification starting with 'C' . . . . .	339
2.67	Passengers Vehicle classification starting with 'CAR' . . . . .	339
2.68	Passengers Vehicle classification starting with 'CB' . . . . .	340
2.69	Passengers Vehicle classification starting with 'CDF' . . . . .	340
2.70	Passengers Vehicle classification starting with 'CLU' . . . . .	357
2.71	Passengers Vehicle classification starting with 'COL' . . . . .	361
2.72	Passengers Vehicle classification starting with 'COO' . . . . .	361
2.73	Passengers Vehicle classification starting with 'CW' . . . . .	362
2.74	Passengers Vehicle classification starting with 'DAM' . . . . .	362
2.75	Passengers Vehicle classification starting with 'DC' . . . . .	363
2.76	Passengers Vehicle classification starting with 'DD' . . . . .	363
2.77	Passengers Vehicle classification starting with 'DE' . . . . .	365
2.78	Passengers Vehicle classification starting with 'DF' . . . . .	366
2.79	Passengers Vehicle classification starting with 'DOR' . . . . .	392
2.80	Passengers Vehicle classification starting with 'ECA' . . . . .	392
2.81	Passengers Vehicle classification starting with 'EFS' . . . . .	395
2.82	Passengers Vehicle classification starting with 'EI' . . . . .	395
2.83	Passengers Vehicle classification starting with 'FAM' . . . . .	396

2.84	Passengers Vehicle classification starting with 'FEN' . . . . .	398
2.85	Passengers Vehicle classification starting with 'FIN' . . . . .	398
2.86	Passengers Vehicle classification starting with 'FN' . . . . .	399
2.87	Passengers Vehicle classification starting with 'FNR' . . . . .	399
2.88	Passengers Vehicle classification starting with 'FRN' . . . . .	399
2.89	Passengers Vehicle classification starting with 'FSN' . . . . .	400
2.90	Passengers Vehicle classification starting with 'FSP' . . . . .	402
2.91	Passengers Vehicle classification starting with 'GOU' . . . . .	403
2.92	Passengers Vehicle classification starting with 'HFS' . . . . .	403
2.93	Passengers Vehicle classification starting with 'HNP' . . . . .	404
2.94	Passengers Vehicle classification starting with 'IND' . . . . .	405
2.95	Passengers Vehicle classification starting with 'INM' . . . . .	405
2.96	Passengers Vehicle classification starting with 'JRA' . . . . .	406
2.97	Passengers Vehicle classification starting with 'JRB' . . . . .	409
2.98	Passengers Vehicle classification starting with 'JTA' . . . . .	412
2.99	Passengers Vehicle classification starting with 'JTB' . . . . .	416
2.100	Passengers Vehicle classification starting with 'JUK' . . . . .	420
2.101	Passengers Vehicle classification starting with 'KUL' . . . . .	420
2.102	Passengers Vehicle classification starting with 'LAN' . . . . .	421
2.103	Passengers Vehicle classification starting with 'LOD' . . . . .	423
2.104	Passengers Vehicle classification starting with 'MAL' . . . . .	424
2.105	Passengers Vehicle classification starting with 'MBE' . . . . .	424
2.106	Passengers Vehicle classification starting with 'MCE' . . . . .	424
2.107	Passengers Vehicle classification starting with 'MFA' . . . . .	426
2.108	Passengers Vehicle classification starting with 'MFE' . . . . .	427
2.109	Passengers Vehicle classification starting with 'MFH' . . . . .	428
2.110	Passengers Vehicle classification starting with 'MFS' . . . . .	430
2.111	Passengers Vehicle classification starting with 'MHA' . . . . .	432
2.112	Passengers Vehicle classification starting with 'MOK' . . . . .	433
2.113	Passengers Vehicle classification starting with 'MUR' . . . . .	433
2.114	Passengers Vehicle classification starting with 'NAB' . . . . .	433

---

2.115 Passengers Vehicle classification starting with 'NAF' . . . . .	434
2.116 Passengers Vehicle classification starting with 'NAM' . . . . .	436
2.117 Passengers Vehicle classification starting with 'NAN' . . . . .	438
2.118 Passengers Vehicle classification starting with 'NAR' . . . . .	438
2.119 Passengers Vehicle classification starting with 'NDC' . . . . .	441
2.120 Passengers Vehicle classification starting with 'NDS' . . . . .	442
2.121 Passengers Vehicle classification starting with 'NFS' . . . . .	443
2.122 Passengers Vehicle classification starting with 'NHN' . . . . .	446
2.123 Passengers Vehicle classification starting with 'NOM' . . . . .	447
2.124 Passengers Vehicle classification starting with 'NSA' . . . . .	447
2.125 Passengers Vehicle classification starting with 'NSS' . . . . .	447
2.126 Passengers Vehicle classification starting with 'OVE' . . . . .	448
2.127 Passengers Vehicle classification starting with 'PEK' . . . . .	448
2.128 Passengers Vehicle classification starting with 'PFE' . . . . .	449
2.129 Passengers Vehicle classification starting with 'PUR' . . . . .	449
2.130 Passengers Vehicle classification starting with 'RBJ' . . . . .	449
2.131 Passengers Vehicle classification starting with 'RBS' . . . . .	453
2.132 Passengers Vehicle classification starting with 'RDH' . . . . .	453
2.133 Passengers Vehicle classification starting with 'RS' . . . . .	453
2.134 Passengers Vehicle classification starting with 'SBH' . . . . .	454
2.135 Passengers Vehicle classification starting with 'SBN' . . . . .	455
2.136 Passengers Vehicle classification starting with 'SBS' . . . . .	455
2.137 Passengers Vehicle classification starting with 'SCN' . . . . .	457
2.138 Passengers Vehicle classification starting with 'SDS' . . . . .	458
2.139 Passengers Vehicle classification starting with 'SDZ' . . . . .	463
2.140 Passengers Vehicle classification starting with 'SFN' . . . . .	464
2.141 Passengers Vehicle classification starting with 'SFS' . . . . .	464
2.142 Passengers Vehicle classification starting with 'SJ' . . . . .	467
2.143 Passengers Vehicle classification starting with 'SLE' . . . . .	467
2.144 Passengers Vehicle classification starting with 'SS' . . . . .	468
2.145 Passengers Vehicle classification starting with 'SSA' . . . . .	469

2.146 Passengers Vehicle classification starting with 'SSD' . . . . .	471
2.147 Passengers Vehicle classification starting with 'SX' . . . . .	472
2.148 Passengers Vehicle classification starting with 'SXV' . . . . .	477
2.149 Passengers Vehicle classification starting with 'SZ' . . . . .	479
2.150 Passengers Vehicle classification starting with 'TAM' . . . . .	479
2.151 Passengers Vehicle classification starting with 'TAN' . . . . .	480
2.152 Passengers Vehicle classification starting with 'TAP' . . . . .	480
2.153 Passengers Vehicle classification starting with 'TAR' . . . . .	480
2.154 Passengers Vehicle classification starting with 'VRS' . . . . .	480
2.155 Passengers Vehicle classification starting with 'WAN' . . . . .	481
2.156 Passengers Vehicle classification starting with 'WER' . . . . .	482
2.157 Passengers Vehicle classification starting with 'XAM' . . . . .	482
2.158 Passengers Vehicle classification starting with 'XFS' . . . . .	483
2.159 Passengers Vehicle classification starting with 'YAN' . . . . .	483

## 2.1 Passengers Vehicle classification starting with 'Number Only'

5

Details: passenger car '5 W' in AN 'Mainland Division'.

**Owner:** V/LINE

**Operator:** C

**Length Over Headstocks:** 22m

**Tare Weight:** 61tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1970

**Operating System:** V/LINE

**Intended Use:** PASSENGERS

**Remarks:** VIP PASSENGER CAR 'STATE'

**BSG Code:** PBSZ

Capacity of 16 passengers

50

Details: passenger car '50 R' in AN 'Mainland Division'.

**Owner:** A.R.H.S.

**Operator:** C

**Length Over Headstocks:** 16m

**Tare Weight:** 27tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1950

**Operating System:** ARHS

**Intended Use:** PASSENGERS

**Remarks:** A.R.H.S. CAR

**BSG Code:** PBSZ

Capacity of 50 passengers

52

Details: passenger car '52 M' in AN 'Mainland Division'.

**Owner:** A.R.H.S.

**Operator:** C  
**Length Over Headstocks:** 16m  
**Tare Weight:** 27tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1950  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** A.R.H.S. CAR  
**BSG Code:** PBSZ

Capacity of 59 passengers

**53**

Details: passenger car '53 V' in AN 'Mainland Division'.

**Owner:** A.R.H.S.  
**Operator:** C  
**Length Over Headstocks:** 16m  
**Tare Weight:** 27tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1950  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** A.R.H.S. CAR  
**BSG Code:** PBSZ

Capacity of 59 passengers

**54**

Details: passenger car '54 H' in AN 'Mainland Division'.

**Owner:** A.R.H.S.  
**Operator:** C  
**Length Over Headstocks:** 16m  
**Tare Weight:** 27tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2



**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1950  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** A.R.H.S. CAR  
**BSG Code:** PBSZ

Capacity of 59 passengers

**56**

Details: passenger car '56 C' in AN 'Mainland Division'.

**Owner:** A.R.H.S.  
**Operator:** C  
**Length Over Headstocks:** 16m  
**Tare Weight:** 27tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1950  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** A.R.H.S. CAR  
**BSG Code:** PBSZ

Capacity of 59 passengers

**60**

Details: passenger car '60 C' in AN 'Mainland Division'.

**Owner:** A.R.H.S.  
**Operator:** C  
**Length Over Headstocks:** 17.2m  
**Tare Weight:** 27tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1950  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** A.R.H.S. CAR  
**BSG Code:** PBSZ

Capacity of 64 passengers

## 61

Details: passenger car '61 L' in AN 'Mainland Division'.

**Owner:** A.R.H.S.

**Operator:** C

**Length Over Headstocks:** 17.2m

**Tare Weight:** 27tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1950

**Operating System:** ARHS

**Intended Use:** PASSENGERS

**Remarks:** A.R.H.S. CAR

**BSG Code:** PBSZ

Capacity of 64 passengers

## 62

Details: passenger car '62 U' in AN 'Mainland Division'.

**Owner:** A.R.H.S.

**Operator:** C

**Length Over Headstocks:** 17.2m

**Tare Weight:** 27tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1950

**Operating System:** ARHS

**Intended Use:** PASSENGERS

**Remarks:** A.R.H.S. CAR

**BSG Code:** PBSZ

Capacity of 64 passengers

## 63

Details: passenger car '63 G' in AN 'Mainland Division'.

**Owner:** A.R.H.S.  
**Operator:** C  
**Length Over Headstocks:** 17.2m  
**Tare Weight:** 27tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1950  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** A.R.H.S. CAR  
**BSG Code:** PBSZ

Capacity of 64 passengers

## 65

Details: passenger car '65 B' in AN 'Mainland Division'.

**Owner:** A.R.H.S.  
**Operator:** C  
**Length Over Headstocks:** 17.2m  
**Tare Weight:** 27tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1950  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** A.R.H.S. CAR  
**BSG Code:** PBSZ

Capacity of 64 passengers

## 66

Details: passenger car '66 K' in AN 'Mainland Division'.

**Owner:** A.R.H.S.  
**Operator:** C  
**Length Over Headstocks:** 17.2m  
**Tare Weight:** 27tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B

**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1950  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** A.R.H.S. CAR  
**BSG Code:** PBSZ

Capacity of 64 passengers

## 70

Details: passenger car '70 K' in AN 'Mainland Division'.

**Owner:** A.R.H.S.  
**Operator:** C  
**Length Over Headstocks:** 17.2m  
**Tare Weight:** 27tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1950  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** A.R.H.S. CAR  
**BSG Code:** PBSZ

Capacity of 76 passengers

## 71

Details: passenger car '71 T' in AN 'Mainland Division'.

**Owner:** A.R.H.S.  
**Operator:** C  
**Length Over Headstocks:** 17.2m  
**Tare Weight:** 27tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1950  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** A.R.H.S. CAR

**BSG Code:** PBSZ

Capacity of 76 passengers

**72**

Details: passenger car '72 F' in AN 'Mainland Division'.

**Owner:** A.R.H.S.

**Operator:** C

**Length Over Headstocks:** 17.2m

**Tare Weight:** 27tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1950

**Operating System:** ARHS

**Intended Use:** PASSENGERS

**Remarks:** A.R.H.S. CAR

**BSG Code:** PBSZ

Capacity of 50 passengers

**73**

Details: passenger car '73 Y' in AN 'Mainland Division'.

**Owner:** A.R.H.S.

**Operator:** C

**Length Over Headstocks:** 17.2m

**Tare Weight:** 27tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1950

**Operating System:** ARHS

**Intended Use:** PASSENGERS

**Remarks:** A.R.H.S. CAR

**BSG Code:** PBSZ

Capacity of 76 passengers

## 81

Details: passenger car '81 E' in AN 'Mainland Division'.

**Owner:** ARHS

**Operator:** C

**Length Over Headstocks:** 17.2m

**Tare Weight:** 27tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1920

**Operating System:** ARHS

**Intended Use:** PASSENGERS

**Remarks:** ARHS BUFFET CAR

**BSG Code:** PBSZ

Capacity of 35 passengers

## 83

Details: passenger car '83 W' in AN 'Mainland Division'.

**Owner:** ARHS

**Operator:** C

**Length Over Headstocks:** 17.2m

**Tare Weight:** 27tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1920

**Operating System:** ARHS

**Intended Use:** PASSENGERS

**Remarks:** ARHS BUFFET CAR

**BSG Code:** PBSZ

Capacity of 35 passengers

## 100

**01.07.1987** Reclassified from passenger car '100 H' to passenger car '107 B'.



**101**

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**102**

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**103**

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**104**

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**105**

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.  
**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

## 106

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.  
**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

## 107

- 24.07.1986** Alteration complete 'RENUMBER INDIVIDUAL LOCOMOTIVES AND RAIL CARS AS LISTED. 500 TO 534, 600 TO 607, 700 TO 706, 800 TO 810, 830 TO 875, 930 TO 967 250 TO 261, 280 TO 283 & 100 TO 107 (RS4140)'.  
**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.  
**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

## 251

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.  
**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

## 252

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**253**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**254**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**255**

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**256**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**257**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

## 258

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

## 259

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

## 260

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

## 261

- 24.07.1986** Alteration complete 'RENUMBER INDIVIDUAL LOCOMOTIVES AND RAIL CARS AS LISTED. 500 TO 534, 600 TO 607, 700 TO 706, 800 TO 810, 830 TO 875, 930 TO 967 250 TO 261, 280 TO 283 & 100 TO 107 (RS4140)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**280**

**25.09.1986** Reclassified from passenger car '280 J' to passenger car '283 N'.

**281**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**282**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**283**

**24.07.1986** Alteration complete 'RENUMBER INDIVIDUAL LOCOMOTIVES AND RAIL CARS AS LISTED. 500 TO 534, 600 TO 607, 700 TO 706, 800 TO 810, 830 TO 875, 930 TO 967 250 TO 261, 280 TO 283 & 100 TO 107 (RS4140)'.

**426**

Details: passenger car '426 G' in AN 'Mainland Division'.

**Owner:** A.R.H.S

**Operator:** C

**Length Over Headstocks:** 17.2m

**Tare Weight:** 27tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1950

**Operating System:** ARHS

**Intended Use:** PASSENGERS

**Remarks:** BUFFET CAR

**BSG Code:** PBSZ

Capacity of 50 passengers

### 503

Details: passenger car '503 Q' in AN 'Mainland Division'.

**Owner:** A.R.H.S

**Operator:** C

**Length Over Headstocks:** 21.2m

**Tare Weight:** 40.6tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1935

**Operating System:** ARHS

**Intended Use:** PASSENGERS

**Remarks:** STEEL CAR

**BSG Code:** PBSZ

Capacity of 42 passengers

### 602

Details: passenger car '602 Y' in AN 'Mainland Division'.

**Owner:** A.R.H.S

**Operator:** C

**Length Over Headstocks:** 21.2m

**Tare Weight:** 39tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1935

**Operating System:** ARHS

**Intended Use:** PASSENGERS

**Remarks:** STEEL CAR CONVERT TO COMPOSITE(BVAN+TAV)

**BSG Code:** PBSZ

Capacity of 24 passengers

### 606

Details: passenger car '606 E' in AN 'Mainland Division'.

**Owner:** A.R.H.S

**Operator:** C



**Length Over Headstocks:** 21.2m  
**Tare Weight:** 40.6tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1935  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** STEEL CAR  
**BSG Code:** PBSZ

Capacity of 64 passengers

## 701

Details: passenger car '701 M' in AN 'Mainland Division'.

**Owner:** A.R.H.S  
**Operator:** C  
**Length Over Headstocks:** 18.5m  
**Tare Weight:** 37tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1940  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** ARHS CAR - STEEL CAR  
**BSG Code:** PBSZ

Capacity of 56 passengers

## 704

Details: passenger car '704 Q' in AN 'Mainland Division'.

**Owner:** A.R.H.S  
**Operator:** C  
**Length Over Headstocks:** 18.5m  
**Tare Weight:** 37tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1940  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** ARHS CAR - STEEL CAR  
**BSG Code:** PBSZ

Capacity of 56 passengers

## 706

Details: passenger car '706 L' in AN 'Mainland Division'.

**Owner:** A.R.H.S  
**Operator:** C  
**Length Over Headstocks:** 18.5m  
**Tare Weight:** 37tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1940  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** ARHS CAR - STEEL CAR  
**BSG Code:** PBSZ

Capacity of 56 passengers

## 710

Details: passenger car '710 L' in AN 'Mainland Division'.

**Owner:** A.R.H.S  
**Operator:** C  
**Length Over Headstocks:** 18.5m  
**Tare Weight:** 37tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1940  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** ARHS CAR - STEEL CAR  
**BSG Code:** PBSZ

Capacity of 56 passengers

## 712

Details: passenger car '712 G' in AN 'Mainland Division'.

**Owner:** A.R.H.S

**Operator:** C

**Length Over Headstocks:** 18.5m

**Tare Weight:** 37tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1940

**Operating System:** ARHS

**Intended Use:** PASSENGERS

**Remarks:** ARHS CAR

**BSG Code:** PBSZ

Capacity of 56 passengers

## 715

Details: passenger car '715 K' in AN 'Mainland Division'.

**Owner:** ARHS

**Operator:** C

**Length Over Headstocks:** 18.5m

**Tare Weight:** 34.9tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Diagram Book Page No.:** CB P-13

**Date Built:** 24.10.1941

**Operating System:** ARHS

**Intended Use:** PASSENGERS

**Remarks:** W/O 21.04.84;SOLD TO ARHS/STEEL CAR

**BSG Code:** PBSZ

Capacity of 56 passengers

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Return to Service Date:	24.02.1978
Last Lift:	24.02.1978

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## 783

Details: passenger car '783 C' in AN 'Mainland Division'.

**Owner:** A.R.H.S  
**Operator:** D  
**Length Over Headstocks:** 18.5m  
**Tare Weight:** 36.8tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1942  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** EX NORTHERN REGION BF CLASS  
**BSG Code:** PBSZ

Capacity of 38 passengers

### 820

Details: passenger car '820 D' in AN 'Mainland Division'.

**Owner:** TRANS ADEL  
**Operator:** C  
**Length Over Headstocks:** 16.1m  
**Tare Weight:** 30.2tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.07.1946  
**Operating System:** TRAIN TOUR PROMOTION  
**Intended Use:** PASSENGERS  
**BSG Code:** PBSZ

Capacity of 56 passengers

### 863

Details: passenger car '863 Q' in AN 'Mainland Division'.

**Owner:** TRN TOUR P  
**Operator:** C  
**Length Over Headstocks:** 16.1m  
**Tare Weight:** 30.2tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.07.1946

**Operating System:** TRAIN TOUR PROMOTION  
**Intended Use:** PASSENGERS  
**Remarks:** EX STA RED HENS  
**Wagon Width:** 3mm  
**Wagon Height:** 3mm  
**BSG Code:** PBSZ

Capacity of 56 passengers

**864**

Details: passenger car '864 C' in AN 'Mainland Division'.

**Owner:** TRN TOUR P  
**Operator:** C  
**Length Over Headstocks:** 16.1m  
**Tare Weight:** 30.2tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.07.1946  
**Operating System:** TRAIN TOUR PROMOTION  
**Intended Use:** PASSENGERS  
**Remarks:** EX STA RED HENS  
**Wagon Width:** 3mm  
**Wagon Height:** 3mm  
**BSG Code:** PBSZ

Capacity of 56 passengers

**865**

Details: passenger car '865 L' in AN 'Mainland Division'.

**Owner:** TRN TOUR P  
**Operator:** C  
**Length Over Headstocks:** 16.1m  
**Tare Weight:** 30.2tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.07.1946  
**Operating System:** TRAIN TOUR PROMOTION  
**Intended Use:** PASSENGERS  
**Remarks:** EX STA RED HENS  
**Wagon Width:** 3mm

**Wagon Height:** 3mm

**BSG Code:** PBSZ

Capacity of 56 passengers

**866**

Details: passenger car '866 U' in AN 'Mainland Division'.

**Owner:** TRN TOUR P

**Operator:** C

**Length Over Headstocks:** 16.1m

**Tare Weight:** 30.2tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.07.1946

**Operating System:** TRAIN TOUR PROMOTION

**Intended Use:** PASSENGERS

**Remarks:** EX STA RED HENS

**BSG Code:** PBSZ

Capacity of 56 passengers

**867**

Details: passenger car '867 G' in AN 'Mainland Division'.

**Owner:** TRN TOUR P

**Operator:** C

**Length Over Headstocks:** 16.1m

**Tare Weight:** 30.2tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1946

**Operating System:** TRAIN TOUR PROMOTION

**Intended Use:** PASSENGERS

**Remarks:** EX STA RED HENS

**Wagon Width:** 3mm

**Wagon Height:** 3mm

**BSG Code:** PBSZ

Capacity of 56 passengers

### 868

Details: passenger car '868 P' in AN 'Mainland Division'.

**Owner:** TRN TOUR P  
**Operator:** C  
**Length Over Headstocks:** 16.1m  
**Tare Weight:** 30.2tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.07.1946  
**Operating System:** TRAIN TOUR PROMOTION  
**Intended Use:** PASSENGERS  
**Remarks:** EX STA RED HENS  
**Wagon Width:** 3mm  
**Wagon Height:** 3mm  
**BSG Code:** PBSZ

Capacity of 56 passengers

### 869

Details: passenger car '869 B' in AN 'Mainland Division'.

**Owner:** TRN TOUR P  
**Operator:** C  
**Length Over Headstocks:** 16.1m  
**Tare Weight:** 30.2tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1946  
**Operating System:** TRAIN TOUR PROMOTION  
**Intended Use:** PASSENGERS  
**Remarks:** EX STA RED HENS  
**Wagon Width:** 3mm  
**Wagon Height:** 3mm  
**BSG Code:** PBSZ

Capacity of 56 passengers

### 870

Details: passenger car '870 U' in AN 'Mainland Division'.

**Owner:** TRN TOUR P

**Operator:** C  
**Length Over Headstocks:** 16.1m  
**Tare Weight:** 30.2tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.07.1946  
**Operating System:** TRAIN TOUR PROMOTION  
**Intended Use:** PASSENGERS  
**Remarks:** EX RED HENS  
**Wagon Width:** 3mm  
**Wagon Height:** 3mm  
**BSG Code:** PBSZ

Capacity of 56 passengers

**872**

Details: passenger car '872 P' in AN 'Mainland Division'.

**Owner:** TRN TOUR P  
**Operator:** C  
**Length Over Headstocks:** 16.1m  
**Tare Weight:** 30.2tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.07.1946  
**Operating System:** TRAIN TOUR PROMOTION  
**Intended Use:** PASSENGERS  
**Remarks:** EX STA RED HENS  
**Wagon Width:** 3mm  
**Wagon Height:** 3mm  
**BSG Code:** PBSZ

Capacity of 56 passengers

**874**

Details: passenger car '874 K' in AN 'Mainland Division'.

**Owner:** TRANS ADEL  
**Operator:** C  
**Length Over Headstocks:** 16.1m  
**Tare Weight:** 30.2tonne  
**Current Gauge:** Broad



**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.07.1946  
**Operating System:** TRAIN TOUR PROMOTION  
**Intended Use:** PASSENGERS  
**BSG Code:** PBSZ

Capacity of 56 passengers

### 875

Details: passenger car '875 T' in AN 'Mainland Division'.

**Owner:** TRANS ADEL  
**Operator:** C  
**Length Over Headstocks:** 16.1m  
**Tare Weight:** 30.2tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.07.1946  
**Operating System:** TRAIN TOUR PROMOTION  
**Intended Use:** PASSENGERS  
**BSG Code:** PBSZ

Capacity of 56 passengers

### 878

Details: passenger car '878 A' in AN 'Mainland Division'.

**Owner:** TRN TOUR P  
**Operator:** C  
**Length Over Headstocks:** 16.1m  
**Tare Weight:** 30.2tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1946  
**Operating System:** TRAIN TOUR PROMOTION  
**Intended Use:** PASSENGERS  
**Remarks:** EX STA RED HENS  
**Wagon Width:** 3mm  
**Wagon Height:** 3mm  
**BSG Code:** PBSZ

Capacity of 56 passengers

## 882

Details: passenger car '882 A' in AN 'Mainland Division'.

**Owner:** TRN TOUR P

**Operator:** C

**Length Over Headstocks:** 16.1m

**Tare Weight:** 30.2tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1946

**Operating System:** TRAIN TOUR PROMOTION

**Intended Use:** PASSENGERS

**Remarks:** EX STA RED HENS

**Wagon Width:** 3mm

**Wagon Height:** 3mm

**BSG Code:** PBSZ

Capacity of 56 passengers

## 883

Details: passenger car '883 J' in AN 'Mainland Division'.

**Owner:** TRN TOUR P

**Operator:** C

**Length Over Headstocks:** 16.1m

**Tare Weight:** 30.2tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1946

**Operating System:** TRAIN TOUR PROMOTION

**Intended Use:** PASSENGERS

**Remarks:** EX STA RED HENS

**Wagon Width:** 3mm

**Wagon Height:** 3mm

**BSG Code:** PBSZ

Capacity of 56 passengers

## 2.2 Passengers Vehicle classification starting with 'AAH'

### AAH 9

Details: passenger car 'AAH 9 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 22.5m  
**Tare Weight:** 46tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1970  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSZ

Capacity of 5 sleeping

## 2.3 Passengers Vehicle classification starting with 'AAL'

### AAL 11

Details: passenger car 'AAL 11 K' in AN 'Tasmania Division'.

**Owner:** DON RIVER  
**Operator:** C  
**Length Over Headstocks:** 13.9m  
**Tare Weight:** 19.1tonne  
**Current Gauge:** Narrow  
**Gauge Restrictions:** N  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1931  
**Operating System:** DON RIVER RAILWAY  
**Intended Use:** PASSENGERS  
**Remarks:** VAN DIEMAN LIGHT RAILWAY  
**BSG Code:** PTSZ

Capacity of 100 passengers

## 2.4 Passengers Vehicle classification starting with 'AAR'

### AAR 2

Details: passenger car 'AAR 2 G' in AN 'Tasmania Division'.

**Owner:** DON RIVER  
**Operator:** C  
**Length Over Headstocks:** 19.3m  
**Tare Weight:** 30.2tonne  
**Current Gauge:** Narrow

**Gauge Restrictions:** N  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1937  
**Operating System:** DON RIVER RAILWAY  
**Intended Use:** PASSENGERS  
**Remarks:** VAN DIEMAN LIGHT RAILWAY  
**BSG Code:** PTSZ

Capacity of 100 passengers

## **2.5 Passengers Vehicle classification starting with 'ABE'**

### **ABE 7**

Details: passenger car 'ABE 7 Y' in AN 'Mainland Division'.

**Owner:** VIC  
**Length Over Headstocks:** 21.6m  
**Tare Weight:** 46tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1920  
**Operating System:** V/LINE  
**Intended Use:** PASSENGER  
**BSG Code:** PBSZ

Capacity of 46 tonnes

## **2.6 Passengers Vehicle classification starting with 'ABL'**

### **ABL 1**

Details: passenger car 'ABL 1 E' in AN 'Tasmania Division'.

**Owner:** TSL CO P/L  
**Operator:** C  
**Length Over Headstocks:** 14.3m  
**Tare Weight:** 18.6tonne  
**Current Gauge:** Narrow  
**Gauge Restrictions:** N  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1961  
**Operating System:** DON RIVER RAILWAY  
**Intended Use:** PASSENGERS  
**Remarks:** TAS LOCO STEAM COMPANY

**BSG Code:** PTSZ

Capacity of 100 passengers

### **ABL 2**

Details: passenger car 'ABL 2 N' in AN 'Tasmania Division'.

**Owner:** TSL CO P/L

**Operator:** C

**Length Over Headstocks:** 14.3m

**Tare Weight:** 18.6tonne

**Current Gauge:** Narrow

**Gauge Restrictions:** N

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1945

**Operating System:** DON RIVER RAILWAY

**Intended Use:** PASSENGERS

**Remarks:** TAS LOCO STEAM COMPANY

**BSG Code:** PTSZ

Capacity of 100 passengers

## **2.7 Passengers Vehicle classification starting with 'ABS'**

### **ABS 2305**

Details: passenger car 'ABS 2305 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 20.6m

**Tare Weight:** 46tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1970

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** DINER

**BSG Code:** PSSD

Capacity of 48 passengers

## 2.8 Passengers Vehicle classification starting with 'ACC'

### ACC 223

Details: passenger car 'ACC 223 E' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 44.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$515100

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-19

**Date Built:** 21.03.1969

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** EX BRJ;CONFERENCE CAR

**BSG Code:** PSIZ

Capacity of 35 passengers

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Return to Service Date:	29.01.1993
Last Triple Valve:	02.02.1993
Last Lift:	01.07.1986

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**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**08.07.1986** Alteration complete 'CONVERSION OF ONE (1) 'BRJ' SLEEPING CAR TO A CONFERENCE CAR. CAR TO BE RECLASSIFIED 'ACC' NO. 223 (RS4110)'. New class: 'ACC'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration complete 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 06.09.1991** Repair 'WHEEL SET'.
- 02.10.1992** Alteration complete 'REFURBISH CONFERENCE CAR ACC 223. STRIP & REPLACE WALL AND CEILING COVERINGS. REPLACE CARPETS. PROVIDE SINK, HOT WATER, FRIDGE-FREEZER, MICRO WAVE OVEN, ETC AS SHOWN ON DRAWINGS. MATERIALS IN ACCORDANCE WITH CONSULTANTS DIRECTIONS. ACC 223. (RS4739)'.
- 29.01.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 29.01.1993** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 29.01.1993** Repair 'BOGIE CLEARANCE'.
- 29.01.1993** Repair 'BOGIE COMPLETE'.
- 29.01.1993** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 29.01.1993** Repair 'CONCERTINA (PASS.)'.
- 29.01.1993** Repair 'COUPLER KNUCKLE'.
- 29.01.1993** Repair 'COUPLER KNUCKLE PIN'.
- 29.01.1993** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 29.01.1993** Repair 'END COMPLETE'.
- 29.01.1993** Repair 'EVAPORATOR UNIT (PASS.)'.
- 29.01.1993** Repair 'FITTINGS GENERAL'.
- 29.01.1993** Repair 'FLOOR CARPET'.
- 29.01.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 29.01.1993** Repair 'INTERIOR FURBISHINGS (PASS.)'.
- 29.01.1993** Repair 'KITCHEN APPLIANCES (PASS.)'.
- 29.01.1993** Repair 'OVENS'.
- 29.01.1993** Repair 'VESTIBULE (PASS.)'.
- 29.01.1993** Repair 'WEAR PLATES & SADDLES'.
- 29.01.1993** Repair 'WHEEL SET'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

## 2.9 Passengers Vehicle classification starting with 'ACH'

### ACHE

Details: passenger car 'ACHE F' in AN 'Mainland Division'.

**Owner:** VIC

**Length Over Headstocks:** 21.6m

**Tare Weight:** 46tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1920

**Operating System:** V/LINE

**Intended Use:** PASSENGER

**Remarks:** NAMED ACHERON (SLEEPER N0.6)

**BSG Code:** PBSS

Capacity of 20 sleeping

## 2.10 Passengers Vehicle classification starting with 'ACS'

### ACS 2

Details: passenger car 'ACS 2 N' in AN 'Tasmania Division'.

**Owner:** TSL CO P/L

**Operator:** C

**Length Over Headstocks:** 32.7m

**Tare Weight:** 41.9tonne

**Current Gauge:** Narrow

**Gauge Restrictions:** N

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1955

**Operating System:** DON RIVER RAILWAY

**Intended Use:** PASSENGERS

**Remarks:** TAS LOCO STEAM COMPANY

**BSG Code:** PTSZ

Capacity of 200 passengers

### ACS 3

Details: passenger car 'ACS 3 W' in AN 'Tasmania Division'.

**Owner:** TSL CO P/L



**Operator:** C  
**Length Over Headstocks:** 32.7m  
**Tare Weight:** 41.9tonne  
**Current Gauge:** Narrow  
**Gauge Restrictions:** N  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1956  
**Operating System:** DON RIVER RAILWAY  
**Intended Use:** PASSENGERS  
**Remarks:** TAS LOCO STEAM COMPANY  
**BSG Code:** PTSZ

Capacity of 200 passengers

#### ACS 4

Details: passenger car 'ACS 4 X' in AN 'Tasmania Division'.

**Owner:** TSL CO P/L  
**Operator:** C  
**Length Over Headstocks:** 32.7m  
**Tare Weight:** 41.9tonne  
**Current Gauge:** Narrow  
**Gauge Restrictions:** N  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1958  
**Operating System:** DON RIVER RAILWAY  
**Intended Use:** PASSENGERS  
**Remarks:** TAS LOCO STEAM COMPANY  
**BSG Code:** PTSZ

Capacity of 200 passengers

## 2.11 Passengers Vehicle classification starting with 'ACZ'

#### ACZ 261

Details: passenger car 'ACZ 261 S' in AN 'Mainland Division'.

**Owner:** V/LINE  
**Operator:** C  
**Length Over Headstocks:** 21.9m  
**Tare Weight:** 50tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2

**Date Built:** 01.01.1980  
**Operating System:** V/LINE  
**Intended Use:** PASSENGERS  
**BSG Code:** PBSC

Capacity of 52 passengers

### **ACZ 262**

Details: passenger car 'ACZ 262 E' in AN 'Mainland Division'.

**Owner:** V/LINE  
**Operator:** C  
**Length Over Headstocks:** 21.9m  
**Tare Weight:** 50tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1985  
**Operating System:** V/LINE  
**Intended Use:** PASSENGERS  
**Remarks:** FITTED WITH DIESAL ALTERNATORS  
**BSG Code:** PBSC

Capacity of 52 passengers

### **ACZ 263**

Details: passenger car 'ACZ 263 N' in AN 'Mainland Division'.

**Owner:** V/LINE  
**Operator:** C  
**Length Over Headstocks:** 21.9m  
**Tare Weight:** 51tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1970  
**Operating System:** V/LINE  
**Intended Use:** PASSENGERS  
**Remarks:** ECONOMY CLASS COACH - EX AZ263E  
**BSG Code:** PBSE

Capacity of 52 passengers

**10.06.1994** Repair 'VEHICLE RECLASSIFY'.

**10.06.1994** Issued at location 'Australian National' with a previous code of passenger car 'AZ 263 E'

## 2.12 Passengers Vehicle classification starting with 'AD'

### AD 1

**22.08.1986** Reclassified from passenger car 'AD 1 S' to passenger car 'AG 376 X'.

### AD 2

**21.05.1987** Reclassified from passenger car 'AD 2 E' to passenger car 'AG 375 W'.

## 2.13 Passengers Vehicle classification starting with 'AEC'

### AEC 222

Details: passenger car 'AEC 222 W' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$161510

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-20

**Date Built:** 21.03.1969

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS

**Remarks:** EX BRJ;ENTERTAINMENT CAR

**BSG Code:** PSTZ

Capacity of 32 sleeping

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Return to Service Date:	20.11.1992
Last Triple Valve:	23.11.1992
Last Brake Cylinder:	20.11.1992
Last Single Car Test:	20.11.1992
Last Lift:	20.11.1992

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**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**08.07.1986** Alteration complete 'CONVERSION OF ONE (1) 'BRJ' SLEEPING CAR TO AN ENTERTAINMENT CAR. CAR TO BE RECLASSIFIED 'AEC' NO. 222 (RS4123)'.

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 26.07.1988** Alteration "GHAN' PASSENGER CAR INTERIOR REFURBISHMENT. A. REFURBISH INTERIOR OF ALL CARS IN ACCORDANCE WITH DRAWINGS. B. RECLASSIFY CDF 265 TO AOB 265. (RS4304)'. New class: 'AOB'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration complete 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 31.10.1992** Alteration 'MAINTAIN ALL DOOR CLOSERS. (111111)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FROM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCONE' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## 2.14 Passengers Vehicle classification starting with 'AF'

### AF 26

Details: passenger car 'AF 26 Y' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 15.6m

**Tare Weight:** 36.9tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$14770

**Diagram Book Page No.:** NS 28

**Date Built:** 31.10.1917

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** STORED PPI;SURPLUS,EX ANI WORKSHOP.

**BSG Code:** DSDZ

Capacity of 34 passengers

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Return to Service Date:	27.02.1970
Last Lift:	20.08.1964

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**17.12.1986** Alteration 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

## 2.15 Passengers Vehicle classification starting with 'AFA'

### AFA 99

**15.08.1980** Alteration complete 'TO PROVIDE STORAGE CUPBOARD TO HOUSE CARRYING BOX WHICH CONTAINS RESUSCITATOR KIT. (11s80)'.

**28.10.1982** Alteration complete 'INSTALLATION OF COLOUR TELEVISION AND VIDEO CASSETTE RECORDER. (24s82)'.

**08.02.1983** Alteration complete 'MANUFACTURE AND INSTALLATION OF DISPLAY CABINET. (01s83)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 04.04.1990** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 04.04.1990** Repair 'AIR CONDITIONER CONDENSOR (PASS.)'.
- 04.04.1990** Repair 'AIR CONDITIONER MOTOR (PASS.)'.
- 04.04.1990** Repair 'ELECTRICAL CONTROL PANEL (PASS.)'.
- 04.04.1990** Repair 'EVAPORATOR UNIT (PASS.)'.
- 04.04.1990** Repair 'HOT WATER TANK (PASS.)'.
- 04.04.1990** Repair 'LIGHTING (INTERIOR)'.
- 04.04.1990** Repair 'REFRIGERATOR'.
- 11.04.1990** Repair 'BOGIE COMPLETE'.
- 24.04.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 24.04.1990** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 24.04.1990** Repair 'BOGIE COMPLETE'.
- 24.04.1990** Repair 'BRIDGE PLATE ASSEMBLY'.
- 24.04.1990** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 24.04.1990** Repair 'CONCERTINA (PASS.)'.
- 24.04.1990** Repair 'CONCERTINA (PASS.)'.
- 24.04.1990** Repair 'CONCERTINA (PASS.)'.
- 24.04.1990** Repair 'COUPLER COMPLETE'.
- 24.04.1990** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 24.04.1990** Repair 'END COMPLETE'.
- 24.04.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 24.04.1990** Repair 'VESTIBULE (PASS.)'.
- 24.04.1990** Repair 'WEAR PLATES & SADDLES'.
- 24.10.1994** Repair 'VEHICLE CUT FOR SCRAP'.

## **2.16 Passengers Vehicle classification starting with 'AFB'**

### **AFB 137**

Details: passenger car 'AFB 137 V' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 43.2tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$109340

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 31

**Date Built:** 20.12.1963

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** LOUNGE 1ST CLASS

**BSG Code:** PSIL

Capacity of 57 passengers

Return to Service Date:	15.12.1989
Last Lift:	10.05.1983

- 04.07.1979** Alteration complete 'ALTERATION TO INDIVIDUAL STEPS IN ACCORDANCE TO DRAWING. (03s79)'.
- 15.08.1980** Alteration complete 'TO PROVIDE STORAGE CUPBOARD TO HOUSE CARRYING BOX WHICH CONTAINS RESUSCITATOR KIT. (11s80)'.
- 28.10.1982** Alteration complete 'INSTALLATION OF COLOUR TELEVISION AND VIDEO CASSETTE RECORDER. (24s82)'.
- 08.02.1983** Alteration complete 'MANUFACTURE AND INSTALLATION OF DISPLAY CABINET. (01s83)'.
- 13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 15.12.1989** Repair 'VEHICLE SIGNS AND BRACKETS'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH

P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

## AFB 157

Details: passenger car 'AFB 157 Y' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 43.2tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$109340

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 31

**Date Built:** 14.12.1964

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** LOUNGE 1ST CLASS

**BSG Code:** DSDZ

Capacity of 57 passengers

Return to Service Date:	17.05.1989
Last Lift:	02.05.1985

**04.07.1979** Alteration 'ALTERATION TO INDIVIDUAL STEPS IN ACCORDANCE TO DRAWING. (03s79)'.

**15.08.1980** Alteration complete 'TO PROVIDE STORAGE CUPBOARD TO HOUSE CARRYING BOX WHICH CONTAINS RESUSCITATOR KIT. (11s80)'.

**28.10.1982** Alteration complete 'INSTALLATION OF COLOUR TELEVISION AND VIDEO CASSETTE RECORDER. (24s82)'.

**08.02.1983** Alteration complete 'MANUFACTURE AND INSTALLATION OF DISPLAY CABINET. (01s83)'.

**13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.



- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 08.05.1991** Alteration 'WHEELS TO CHANGE A/C CONDEMNED. (AFB157)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

## AFB 158

Details: passenger car 'AFB 158 A' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 43.2tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$123310

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 31

**Date Built:** 22.01.1965

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** LOUNGE 1ST CLASS

**BSG Code:** DSDZ

## Capacity of 57 passengers

Return to Service Date:	02.12.1988
Last Lift:	02.11.1982

- 04.07.1979** Alteration complete 'ALTERATION TO INDIVIDUAL STEPS IN ACCORDANCE TO DRAWING. (03s79)'.
- 15.08.1980** Alteration complete 'TO PROVIDE STORAGE CUPBOARD TO HOUSE CARRYING BOX WHICH CONTAINS RESUSCITATOR KIT. (11s80)'.
- 28.10.1982** Alteration complete 'INSTALLATION OF COLOUR TELEVISION AND VIDEO CASSETTE RECORDER. (24s82)'.
- 08.02.1983** Alteration complete 'MANUFACTURE AND INSTALLATION OF DISPLAY CABINET. (01s83)'.
- 13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

## 2.17 Passengers Vehicle classification starting with 'AFC'

### AFC 213

Details: passenger car 'AFC 213 C' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$161510

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 89

**Date Built:** 28.06.1968

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** EX BRJ;LOUNGE CAR

**BSG Code:** PSPU

Capacity of 32 passengers

Return to Service Date:	14.10.1994
Last Lift:	04.08.1983

**27.08.1982** Alteration complete 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**04.06.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. (C2069)'.

**10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM

- COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 21.06.1990** Alteration complete 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 24.05.1991** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 24.05.1991** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 24.05.1991** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 24.05.1991** Repair 'EVAPORATOR UNIT (PASS.)'.
- 24.05.1991** Repair 'EVAPORATOR UNIT (PASS.)'.
- 24.05.1991** Repair 'EVAPORATOR UNIT (PASS.)'.
- 24.05.1991** Issued at location 'Keswick' with a previous code of passenger car 'BRJ 213 C'
- 28.05.1991** Alteration complete 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 30.05.1991** Repair 'VEHICLE SCHEDULED LIFT AND DATE CHANGE'.
- 30.05.1991** Issued at location 'Keswick' with a previous code of passenger car 'BRJ 213 C'
- 30.05.1991** Issued at location 'Keswick' with a previous code of passenger car 'BRJ 213 C'
- 31.05.1991** Alteration complete 'GOODWIN BOGIES PRESENTLY UNDER CAR TO BE REPLACED WITH BK BOGIES. (000001)'.
- 16.01.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 16.01.1992** Repair 'BODY COMPLETE'.
- 16.01.1992** Repair 'BODY COMPLETE'.
- 16.01.1992** Repair 'BOGIE COMPLETE'.
- 16.01.1992** Repair 'BOGIE COMPLETE'.
- 16.01.1992** Issued at location 'Keswick' with a previous code of passenger car 'BRJ 213 C'
- 16.01.1992** Issued at location 'Keswick' with a previous code of passenger car 'BRJ 213 C'
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration complete 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

- 29.07.1993** Alteration complete 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration complete 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 29.11.1993** Alteration complete '(1) STRIP INTERIOR OF 2 NO. 'BRJ' SLEEPING CARS & REFURBISH TO 'FLINDERS RANGES' AND 'BLUE MOUNTAIN' LOUNGE CARS. (2) REMOVE 2 OUTER WATER TANKS ON EACH CAR AND REPLUMB TO DWG AC-15986. (3) INSTALL UNDER CAR FRAME FOR BAR REFRIGERATION EQUIPMENT AS PER DWG AC-15986. BRJ 213 & 301. RECLASS TO AFC. (RS4830)'. New class: 'AFC'.
- 17.02.1994** Alteration complete 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCONE' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.
- 07.10.1994** Repair 'VEHICLE RECLASSIFY'.
- 07.10.1994** Issued at location 'Port augusta workshops' with a previous code of passenger car 'BRJ 213 C'
- 14.10.1994** Repair 'A/C AIR FILTRATION'.
- 14.10.1994** Repair 'A/C AIR FILTRATION'.
- 14.10.1994** Repair 'A/C PIPEWORK/ANNACONDAS'.
- 14.10.1994** Repair 'BOGIE BRAKE RIGGING, LEVERS & RODS'.
- 14.10.1994** Repair 'BRAKE SPREADER & HANGERS'.
- 14.10.1994** Repair 'COLD WATER TANK (PASS.)'.
- 14.10.1994** Repair 'CONCERTINA (PASS.)'.
- 14.10.1994** Repair 'CONCERTINA (PASS.)'.
- 14.10.1994** Repair 'ELECTRICAL CABLING'.
- 14.10.1994** Repair 'END FRAME MEMBER'.
- 14.10.1994** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 14.10.1994** Repair 'VESTIBULE (PASS.)'.
- 14.10.1994** Repair 'VESTIBULE (PASS.)'.
- 14.10.1994** Repair 'VESTIBULE (PASS.)'.
- 14.10.1994** Repair 'WATER FILTERS'.

## AFC 301

Details: passenger car 'AFC 301 G' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$161510

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 89

**Date Built:** 13.08.1973

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** EX BRJ;LOUNGE CAR

**BSG Code:** PSPU

Capacity of 32 passengers

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Return to Service Date:	14.10.1994
Last Lift:	24.02.1982

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**28.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABI NET,LIGHTING SWITHBOARD CONTROL CABINET,AND HEATER BANK COVER PLATE IN ROOF UNIT. (12s80)'.

**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**04.06.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. (C2069)'.

**10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 18.06.1990** Repair 'WHEEL SET'.
- 18.06.1990** Issued at location 'One spot' with a previous code of passenger car 'BRJ 301 G'.
- 21.06.1990** Alteration complete 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 07.08.1991** Repair 'WHEEL SET'.
- 07.08.1991** Issued at location 'One spot' with a previous code of passenger car 'BRJ 301 G'.
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration complete 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration complete 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration complete 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 29.11.1993** Alteration complete '(1) STRIP INTERIOR OF 2 NO. 'BRJ' SLEEPING CARS & REFURBISH TO 'FLINDERS RANGES' AND 'BLUE MOUNTAIN' LOUNGE CARS. (2) REMOVE 2 OUTER WATER TANKS ON EACH CAR AND REPLUMB TO DWG AC-15986. (3) INSTALL UNDER CAR FRAME FOR BAR REFRIGERATION EQUIPMENT AS PER DWG AC-15986. BRJ 213 & 301. RECLASS TO AFC. (RS4830)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOONE' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**14.10.1994** Repair 'A/C PIPEWORK/ANNACONDAS'.  
**14.10.1994** Repair 'BOGIE BEARERS'.  
**14.10.1994** Repair 'BOGIE BRAKE RIGGING, LEVERS & RODS'.  
**14.10.1994** Repair 'BRAKE SPREADER & HANGERS'.  
**14.10.1994** Repair 'COLD WATER TANK (PASS.)'.  
**14.10.1994** Repair 'CONCERTINA (PASS.)'.  
**14.10.1994** Repair 'ELECTRICAL CABLING'.  
**14.10.1994** Repair 'END FRAME MEMBER'.  
**14.10.1994** Repair 'EVAPORATOR UNIT (PASS.)'.  
**14.10.1994** Repair 'FLOOR SHEETING'.  
**14.10.1994** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.  
**14.10.1994** Repair 'REFRIG & AIR CON GAUGES'.  
**14.10.1994** Repair 'VESTIBULE (PASS.)'.  
**14.10.1994** Repair 'VESTIBULE (PASS.)'.  
**14.10.1994** Repair 'WATER FILTERS'.  
**18.10.1994** Repair 'VEHICLE RECLASSIFY'.  
**18.10.1994** Issued at location 'Port augusta workshops' with a previous code of passenger car 'BRJ 301 G'

### **AFC 305**

Details: passenger car 'AFC 305 T' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 41.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$164970

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 32

**Date Built:** 01.03.1974

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS

**Remarks:** LOUNGE 1ST CLASS 'DREAMTIME LOUNGE'

**BSG Code:** PSTL

Capacity of 53 passengers

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Return to Service Date:	25.01.1994
Last Triple Valve:	05.04.1994
Last Lift:	15.09.1981

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**15.08.1980** Alteration complete 'TO PROVIDE STORAGE CUPBOARD TO HOUSE CARRYING BOX WHICH CONTAINS RESUSCITATOR KIT. (11s80)'.

**28.10.1982** Alteration complete 'INSTALLATION OF COLOUR TELEVISION AND VIDEO CASSETTE RECORDER. (24s82)'.



- 08.02.1983** Alteration 'MANUFACTURE AND INSTALLATION OF DISPLAY CABINET. (01s83)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 26.07.1988** Alteration complete "GHAN' PASSENGER CAR INTERIOR REFURBISHMENT. A. REFURBISH INTERIOR OF ALL CARS IN ACCORDANCE WITH DRAWINGS. B. RECLASSIFY CDF 265 TO AOB 265. (RS4304)'. New class: 'AOB'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 22.09.1989** Repair 'FLOOR SHEETING'.
- 22.09.1989** Repair 'INTERIOR FURBISHINGS (PASS.)'.
- 22.09.1989** Repair 'SAFETY EQUIPMENT (PASS)'.
- 22.09.1989** Repair 'VEHICLE SIGNS AND BRACKETS'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 05.11.1991** Repair 'WHEEL SET'.
- 16.08.1992** Repair 'WHEEL SET'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration complete 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS.

(RS4808)'.

**03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**25.01.1994** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**25.01.1994** Repair 'BOGIE BEARERS'.

**25.01.1994** Repair 'BOGIE BRAKE RIGGING, LEVERS & RODS'.

**25.01.1994** Repair 'BOGIE CLEARANCE'.

**25.01.1994** Repair 'BOGIE COMPLETE'.

**25.01.1994** Repair 'BRAKE SPREADER & HANGERS'.

**25.01.1994** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.

**25.01.1994** Repair 'CONCERTINA (PASS.)'.

**25.01.1994** Repair 'COUPLER COMPLETE'.

**25.01.1994** Repair 'COUPLER KNUCKLE PIN'.

**25.01.1994** Repair 'END FRAME MEMBER'.

**25.01.1994** Repair 'WEAR PLATES & SADDLES'.

**25.01.1994** Repair 'YOKE PIN'.

**25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FROM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## **AFC 306**

Details: passenger car 'AFC 306 F' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 41.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$164970

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 32

**Date Built:** 08.02.1974

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** LOUNGE 1ST CLASS

**BSG Code:** PSPL

## Capacity of 53 passengers

Corporate ID flag:	Y
Return to Service Date:	10.12.1991
Last Triple Valve:	24.02.1992
Last Lift:	19.11.1981

- 15.08.1980** Alteration complete 'TO PROVIDE STORAGE CUPBOARD TO HOUSE CARRYING BOX WHICH CONTAINS RESUSCITATOR KIT. (11s80)'.
- 28.10.1982** Alteration complete 'INSTALLATION OF COLOUR TELEVISION AND VIDEO CASSETTE RECORDER. (24s82)'.
- 08.02.1983** Alteration 'MANUFACTURE AND INSTALLATION OF DISPLAY CABINET. (01s83)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 07.06.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 20.02.1991** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 10.12.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 10.12.1991** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 10.12.1991** Repair 'BOGIE CLEARANCE'.
- 10.12.1991** Repair 'BOGIE COMPLETE'.
- 10.12.1991** Repair 'BRIDGE PLATE ASSEMBLY'.
- 10.12.1991** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 10.12.1991** Repair 'CONCERTINA (PASS.)'.
- 10.12.1991** Repair 'COUPLER KNUCKLE'.
- 10.12.1991** Repair 'COUPLER KNUCKLE PIN'.

- 10.12.1991** Repair 'DRAFTGEAR COMPLETE HEAVY'.  
**10.12.1991** Repair 'END COMPLETE'.  
**10.12.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.  
**10.12.1991** Repair 'VESTIBULE (PASS.)'.  
**10.12.1991** Repair 'WHEEL SET'.  
**10.12.1991** Repair 'YOKE PIN'.  
**14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.  
**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.  
**29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.  
**03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.  
**04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.  
**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

### **AFC 307**

Details: passenger car 'AFC 307 Y' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 41.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$164970

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 32

**Date Built:** 29.03.1974

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** LOUNGE 1ST CLASS

**BSG Code:** PSPL

Capacity of 53 passengers

Return to Service Date:	08.04.1995
Due Triple Valve:	30.10.1997
Last Lift:	21.02.1987

- 15.08.1980** Alteration complete 'TO PROVIDE STORAGE CUPBOARD TO HOUSE CARRYING BOX WHICH CONTAINS RESUSCITATOR KIT. (11s80)'.
- 28.10.1982** Alteration complete 'INSTALLATION OF COLOUR TELEVISION AND VIDEO CASSETTE RECORDER. (24s82)'.
- 08.02.1983** Alteration complete 'MANUFACTURE AND INSTALLATION OF DISPLAY CABINET. (01s83)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration complete 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration complete 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 08.09.1992** Repair 'WHEEL SET'.
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration complete 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration complete 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration complete 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' &

'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**17.02.1994** Alteration complete 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCONE' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**08.04.1995** Repair 'A/C AIR FILTRATION'.

**08.04.1995** Repair 'A/C PIPEWORK/ANNACONDAS'.

**08.04.1995** Repair 'BOGIE BEARERS'.

**08.04.1995** Repair 'BOGIE BRAKE RIGGING, LEVERS & RODS'.

**08.04.1995** Repair 'BRAKE SPREADER & HANGERS'.

**08.04.1995** Repair 'COLD WATER TANK (PASS.)'.

**08.04.1995** Repair 'CONCERTINA (PASS.)'.

**08.04.1995** Repair 'CONCERTINA (PASS.)'.

**08.04.1995** Repair 'CONCERTINA (PASS.)'.

**08.04.1995** Repair 'ELECTRICAL CABLING'.

**08.04.1995** Repair 'END FRAME MEMBER'.

**08.04.1995** Repair 'EVAPORATOR UNIT (PASS.)'.

**08.04.1995** Repair 'FLOOR SHEETING'.

**08.04.1995** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.

**08.04.1995** Repair 'REFRIG & AIR CON GAUGES'.

**08.04.1995** Repair 'WATER FILTERS'.

## **AFC 936**

Details: passenger car 'AFC 936 C' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 41.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$113970

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 32

**Date Built:** 20.02.1969

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** LOUNGE 1ST CLASS;I.P.CARS

**BSG Code:** PSPL

Capacity of 53 passengers

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Return to Service Date:	14.07.1995
Last Triple Valve:	03.05.1993
Last Single Car Test:	02.08.1988
Last Lift:	24.02.1981

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- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP1279)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 15.08.1980** Alteration complete 'TO PROVIDE STORAGE CUPBOARD TO HOUSE CARRYING BOX WHICH CONTAINS RESUSCITATOR KIT. (11s80)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 25.06.1982** Alteration complete 'INSTALLATION OF HINGED WALL CLOCK (BATTERY OPERATED). AFC 936,937,938,939. CDF 924,928,929,966. (IP0682)'.
- 27.08.1982** Alteration complete 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 19.06.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration complete 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 09.04.1991** Repair 'WHEEL SET'.
- 30.04.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 30.04.1993** Repair 'BOGIE BEARERS'.
- 30.04.1993** Repair 'BOGIE CLEARANCE'.
- 30.04.1993** Repair 'BOGIE COMPLETE'.
- 30.04.1993** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 30.04.1993** Repair 'CONCERTINA (PASS.)'.
- 30.04.1993** Repair 'COUPLER KNUCKLE'.
- 30.04.1993** Repair 'COUPLER KNUCKLE PIN'.
- 30.04.1993** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 30.04.1993** Repair 'END COMPLETE'.
- 30.04.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 30.04.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 30.04.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 30.04.1993** Repair 'WHEEL SET'.
- 30.04.1993** Repair 'YOKE PIN'.
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration complete 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration complete 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration complete 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 17.02.1994** Alteration complete 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.
- 14.07.1995** Repair 'A/C AIR FILTRATION'.
- 14.07.1995** Repair 'A/C PIPEWORK/ANNACONDAS'.
- 14.07.1995** Repair 'BOGIE BEARERS'.
- 14.07.1995** Repair 'BOGIE BRAKE RIGGING, LEVERS & RODS'.
- 14.07.1995** Repair 'BRAKE SPREADER & HANGERS'.
- 14.07.1995** Repair 'COLD WATER TANK (PASS.)'.
- 14.07.1995** Repair 'CONCERTINA (PASS.)'.



**14.07.1995** Repair 'CONCERTINA (PASS.)'.  
**14.07.1995** Repair 'ELECTRICAL CABLING'.  
**14.07.1995** Repair 'END FRAME MEMBER'.  
**14.07.1995** Repair 'FLOOR SHEETING'.  
**14.07.1995** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.  
**14.07.1995** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.  
**14.07.1995** Repair 'REFRIG & AIR CON GAUGES'.  
**14.07.1995** Repair 'VESTIBULE (PASS.)'.  
**14.07.1995** Repair 'WATER FILTERS'.

## AFC 937

Details: passenger car 'AFC 937 L' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 41.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S/B

**Bogie Configuration:** 2X2

**Original Cost:** \$113970

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 32

**Date Built:** 22.02.1969

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** LOUNGE 1ST CLASS;I.P.CARS

**BSG Code:** PSPL

Capacity of 53 passengers

Return to Service Date:	08.04.1995
Last Lift:	10.08.1983

**10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.

**09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.

**09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0280)'.

**15.08.1980** Alteration complete 'TO PROVIDE STORAGE CUPBOARD TO HOUSE CARRYING BOX WHICH CONTAINS RESUSCITATOR KIT. (11s80)'.

**20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD

- CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 25.06.1982** Alteration complete 'INSTALLATION OF HINGED WALL CLOCK (BATTERY OPERATED). AFC 936,937,938,939. CDF 924,928,929,966. (IP0682)'.
- 27.08.1982** Alteration complete 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 30.10.1989** Repair 'WHEEL SET'.
- 21.06.1990** Alteration complete 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 07.01.1991** Repair 'WHEEL SET'.
- 23.05.1991** Repair 'BOGIE COMPLETE'.
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration complete 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration complete 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.

- 03.08.1993** Alteration complete 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 17.02.1994** Alteration complete 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.
- 08.04.1995** Repair 'A/C AIR FILTRATION'.
- 08.04.1995** Repair 'A/C PIPEWORK/ANNACONDAS'.
- 08.04.1995** Repair 'BOGIE BEARERS'.
- 08.04.1995** Repair 'BOGIE BRAKE RIGGING, LEVERS & RODS'.
- 08.04.1995** Repair 'BRAKE SPREADER & HANGERS'.
- 08.04.1995** Repair 'COLD WATER TANK (PASS.)'.
- 08.04.1995** Repair 'COLD WATER TANK (PASS.)'.
- 08.04.1995** Repair 'CONCERTINA (PASS.)'.
- 08.04.1995** Repair 'CONCERTINA (PASS.)'.
- 08.04.1995** Repair 'CONCERTINA (PASS.)'.
- 08.04.1995** Repair 'ELECTRICAL CABLING'.
- 08.04.1995** Repair 'END FRAME MEMBER'.
- 08.04.1995** Repair 'FLOOR SHEETING'.
- 08.04.1995** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 08.04.1995** Repair 'HOT WATER TANK (PASS.)'.
- 08.04.1995** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 08.04.1995** Repair 'REFRIG & AIR CON GAUGES'.
- 08.04.1995** Repair 'WATER FILTERS'.

## AFC 938

Details: passenger car 'AFC 938 U' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 41.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$113970

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 32

**Date Built:** 27.02.1970

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** LOUNGE 1ST CLASS;I.P.CARS

**BSG Code:** PSPL

Capacity of 53 passengers

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Return to Service Date:	14.07.1995
Last Triple Valve:	05.04.1989
Last Lift:	26.02.1985

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- 10.12.1979** Alteration 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP1279)'.
- 09.01.1980** Alteration 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 15.08.1980** Alteration complete 'TO PROVIDE STORAGE CUPBOARD TO HOUSE CARRYING BOX WHICH CONTAINS RESUSCITATOR KIT. (11s80)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 25.06.1982** Alteration complete 'INSTALLATION OF HINGED WALL CLOCK (BATTERY OPERATED). AFC 936,937,938,939. CDF 924,928,929,966. (IP0682)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 26.08.1987** Alteration 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM

COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration complete 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration complete 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration complete 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration complete 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 17.02.1994** Alteration complete 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.
- 14.07.1995** Repair 'A/C AIR FILTRATION'.
- 14.07.1995** Repair 'A/C PIPEWORK/ANNACONDAS'.
- 14.07.1995** Repair 'COLD WATER TANK (PASS.)'.
- 14.07.1995** Repair 'COLD WATER TANK (PASS.)'.
- 14.07.1995** Repair 'CONCERTINA (PASS.)'.
- 14.07.1995** Repair 'DRAFTGEAR COMPLETE OTHER'.
- 14.07.1995** Repair 'END FRAME MEMBER'.
- 14.07.1995** Repair 'FLOOR SHEETING'.
- 14.07.1995** Repair 'HOT WATER TANK (PASS.)'.
- 14.07.1995** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 14.07.1995** Repair 'REFRIG & AIR CON GAUGES'.
- 14.07.1995** Repair 'WATER FILTERS'.

## AFC 939

Details: passenger car 'AFC 939 G' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 41.3tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$113970  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** NS 32  
**Date Built:** 07.05.1969  
**Operating System:** IP POOL  
**Intended Use:** PASSENGERS  
**Remarks:** LOUNGE 1ST CLASS;I.P.CARS  
**BSG Code:** PSPL

Capacity of 53 passengers

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Return to Service Date:	06.01.1992
Last Triple Valve:	04.09.1989
Last Lift:	08.04.1981

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- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP1279)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 15.08.1980** Alteration complete 'TO PROVIDE STORAGE CUPBOARD TO HOUSE CARRYING BOX WHICH CONTAINS RESUSCITATOR KIT. (11s80)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 25.06.1982** Alteration complete 'INSTALLATION OF HINGED WALL CLOCK (BATTERY OPERATED). AFC 936,937,938,939. CDF 924,928,929,966. (IP0682)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 29.08.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 29.08.1989** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 29.08.1989** Repair 'BOGIE COMPLETE'.
- 29.08.1989** Repair 'BOGIE COMPLETE'.
- 29.08.1989** Repair 'BRIDGE PLATE ASSEMBLY'.
- 29.08.1989** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 29.08.1989** Repair 'CONCERTINA (PASS.)'.
- 29.08.1989** Repair 'COUPLER KNUCKLE'.
- 29.08.1989** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 29.08.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 29.08.1989** Repair 'SIDE BEARER'.
- 29.08.1989** Repair 'VESTIBULE (PASS.)'.
- 02.10.1989** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 02.10.1989** Repair 'AIR CONDITIONER CONDENSOR (PASS.)'.
- 02.10.1989** Repair 'AIR CONDITIONER MOTOR (PASS.)'.
- 02.10.1989** Repair 'BATTERY BOX (PASS.)'.
- 02.10.1989** Repair 'ELECTRICAL CONTROL PANEL (PASS.)'.
- 02.10.1989** Repair 'EVAPORATOR UNIT (PASS.)'.
- 02.10.1989** Repair 'HOT WATER TANK (PASS.)'.
- 02.10.1989** Repair 'LIGHTING (INTERIOR)'.
- 02.10.1989** Repair 'REFRIGERATOR'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 06.01.1992** Repair 'WHEEL SET'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.

- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## **2.18 Passengers Vehicle classification starting with 'AG'**

### **AG 369**

Details: passenger car 'AG 369 E' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 46.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$112610

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 57

**Date Built:** 01.01.1963

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS

**Remarks:** EX BG CLASS;COACH ECON.CL

**BSG Code:** PSTE

Capacity of 68 passengers

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Return to Service Date:	29.06.1995
Last Triple Valve:	12.06.1991
Last Lift:	30.10.1987

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- 23.07.1982** Alteration complete 'CONVERSION OF (5) AVCY BRAKE VANS , (5) 'AG' AND (4) 'BG' COACH CARS FROM 1600MM TO 1435MM GUAGE BY MODIFYING BOGIES. (C1975)'.
- 16.12.1982** Alteration complete 'MANUFACTURE AND INSTALLATION OF STORAGE CUPBOARD. (31s82)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.



- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 09.12.1987** Alteration complete 'RENUMBER THE SEATS OF 'AG' AND 'BG' COACH CLASS PASSENGER CARS. (RS4246)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 06.07.1988** Alteration complete 'MODIFY 4 'BG' CLASS SITTING CARS AS FOLLOWS:  
1. FIT ADDITIONAL SHOWER COMPARTMENT. 2. RELOCATE STORAGE CUPBOARD. 3. REUPHOLSTER SEATS WITH WOOLLEN FABRIC. 4. LAY CARPET TILES TO FLOOR. 5. REMOVE 1 SEAT AND WINDOW. (RS4299)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 27.10.1989** Repair 'WHEEL SET'.
- 27.10.1989** Issued at location 'One spot' with a previous code of passenger car 'BG 369 F'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 13.05.1991** Issued at location 'Port augusta workshops' with a previous code of passenger car 'BG 369 F'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 05.11.1991** Alteration '1. PROVIDE SEATING FOR ADDITIONAL 10 PASSENGERS. 2. FIT GHAN EXTERIOR STRIPING AND LOGOS. 3. TRANSFER COMMUNICATIONS SYSTEM EX 'BA' CARS. BG 368-371 (RS4651)'.
- 14.12.1992** Repair 'WHEEL SET'.
- 14.12.1992** Issued at location 'One spot' with a previous code of passenger car 'BG 369 F'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO.

A1/C8-10. (RS4811)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**29.06.1995** Repair 'VEHICLE RECLASSIFY'.

**29.06.1995** Issued at location 'Islington Works' with a previous code of passenger car 'BG 369 F'

**29.06.1995** Alteration complete 'RECLASS BG 369 TO AG 369 (PASS)'. New class: 'AG'.

## **AG 372**

Details: passenger car 'AG 372 S' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 46.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$112610

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-22

**Date Built:** 14.04.1965

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** EX AD;COACH 1ST CLASS

**BSG Code:** PSPC

Capacity of 66 passengers

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Return to Service Date:	24.08.1992
Last Triple Valve:	27.12.1990
Last Lift:	31.07.1979

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**23.07.1982** Alteration complete 'CONVERSION OF (5) AVCY BRAKE VANS , (5) 'AG' AND (4) 'BG' COACH CARS FROM 1600MM TO 1435MM GUAGE BY MODIFYING BOGIES. (C1975)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**09.12.1987** Alteration complete 'RENUMBER THE SEATS OF 'AG' AND 'BG' COACH CLASS PASSENGER CARS. (RS4246)'.

- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 21.11.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 21.11.1990** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 21.11.1990** Repair 'BOGIE BEARERS'.
- 21.11.1990** Repair 'BOGIE CLEARANCE'.
- 21.11.1990** Repair 'BOGIE COMPLETE'.
- 21.11.1990** Repair 'BRANCH PIPE'.
- 21.11.1990** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 21.11.1990** Repair 'COUPLER KNUCKLE'.
- 21.11.1990** Repair 'COUPLER KNUCKLE PIN'.
- 21.11.1990** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 21.11.1990** Repair 'END COMPLETE'.
- 21.11.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 21.11.1990** Repair 'YOKE COMPLETE'.
- 21.11.1990** Repair 'YOKE SUPPORT PLATE LINER'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 05.11.1991** Alteration 'PROVIDE SEATING FOR ADDITIONAL 10 PASSENGERS. AG 372-376 (RS4652)'.
- 24.08.1992** Repair 'WHEEL SET'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**AG 373**

Details: passenger car 'AG 373 E' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 46.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$112610

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-22

**Date Built:** 14.04.1965

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** EX AD; COACH 1ST CLASS

**BSG Code:** PSPC

Capacity of 66 passengers

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Return to Service Date:	01.11.1990
Last Triple Valve:	24.02.1988
Last Lift:	05.05.1985

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**23.07.1982** Alteration complete 'CONVERSION OF (5) AVCY BRAKE VANS , (5) 'AG' AND (4) 'BG' COACH CARS FROM 1600MM TO 1435MM GAUGE BY MODIFYING BOGIES. (C1975)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**09.12.1987** Alteration complete 'RENUMBER THE SEATS OF 'AG' AND 'BG' COACH CLASS PASSENGER CARS. (RS4246)'.

**01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

**31.08.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**31.08.1989** Repair 'BOGIE CLEARANCE'.

**31.08.1989** Repair 'BOGIE COMPLETE'.

- 31.08.1989** Repair 'BOGIE WEAR PLATES'.
- 31.08.1989** Repair 'BOGIE WEAR PLATES'.
- 31.08.1989** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 31.08.1989** Repair 'END COMPLETE'.
- 31.08.1989** Repair 'END HOSE'.
- 31.08.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 31.08.1989** Repair 'SIDE BEARER'.
- 31.08.1989** Repair 'TOP CENTRE PLATE'.
- 31.08.1989** Repair 'YOKE COMPLETE'.
- 28.03.1990** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 28.03.1990** Repair 'AIR CONDITIONER CONDENSOR (PASS.)'.
- 28.03.1990** Repair 'AIR CONDITIONER MOTOR (PASS.)'.
- 28.03.1990** Repair 'BATTERY BOX (PASS.)'.
- 28.03.1990** Repair 'BATTERY CHARGER (PASS.)'.
- 28.03.1990** Repair 'EVAPORATOR UNIT (PASS.)'.
- 28.03.1990** Repair 'HOT WATER TANK (PASS.)'.
- 28.03.1990** Repair 'LIGHTING (INTERIOR)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 01.11.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 05.11.1991** Alteration 'PROVIDE SEATING FOR ADDITIONAL 10 PASSENGERS. AG 372-376 (RS4652)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## AG 374

Details: passenger car 'AG 374 N' in AN 'Mainland Division'.

**Owner:** AN  
**Operator:** C  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 46.5tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$112610  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** CB P-22  
**Date Built:** 14.05.1965  
**Operating System:** IP POOL  
**Intended Use:** PASSENGERS  
**Remarks:** EX AD;COACH 1ST CLASS  
**BSG Code:** PSPC

Capacity of 66 passengers

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Return to Service Date:	16.08.1990
Last Brake Cylinder:	04.08.1989
Last Lift:	11.01.1985

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- 23.07.1982** Alteration complete 'CONVERSION OF (5) AVCY BRAKE VANS , (5) 'AG' AND (4) 'BG' COACH CARS FROM 1600MM TO 1435MM GUAGE BY MODIFYING BOGIES. (C1975)'.  
**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.  
**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.  
**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.  
**09.12.1987** Alteration complete 'RENUMBER THE SEATS OF 'AG' AND 'BG' COACH CLASS PASSENGER CARS. (RS4246)'.  
**01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.  
**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.  
**01.08.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.  
**01.08.1989** Repair 'BOGIE WEAR PLATES'.  
**01.08.1989** Repair 'BOGIE WEAR PLATES'.  
**01.08.1989** Repair 'COUPLER SUPPORT PLATE AND LINER'.  
**01.08.1989** Repair 'END COMPLETE'.  
**01.08.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.  
**01.08.1989** Repair 'OTHER BRAKE CYLINDER COMPLETE'.

- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 16.08.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 16.08.1990** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 16.08.1990** Repair 'BOGIE BEARERS'.
- 16.08.1990** Repair 'BOGIE CLEARANCE'.
- 16.08.1990** Repair 'BOGIE COMPLETE'.
- 16.08.1990** Repair 'BRANCH PIPE'.
- 16.08.1990** Repair 'COUPLER COMPLETE'.
- 16.08.1990** Repair 'COUPLER KNUCKLE'.
- 16.08.1990** Repair 'COUPLER KNUCKLE PIN'.
- 16.08.1990** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 16.08.1990** Repair 'END COMPLETE'.
- 16.08.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 16.08.1990** Repair 'WEAR PLATES & SADDLES'.
- 16.08.1990** Repair 'YOKE COMPLETE'.
- 16.08.1990** Repair 'YOKE PIN'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 05.11.1991** Alteration 'PROVIDE SEATING FOR ADDITIONAL 10 PASSENGERS. AG 372-376 (RS4652)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.
- 01.02.1995** Alteration 'REMOVE COLD CATHODE LIGHTING SYSTEM & REPLACE WITH RAPID START FLOURESCENT LIGHTING. REFER SCOPE OF WORK. AG 374 & AG 376. (RS4891)'.

## AG 375

Details: passenger car 'AG 375 W' in AN 'Mainland Division'.

**Owner:** AN  
**Operator:** C  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 47.2tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$112610  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** CB P-22  
**Date Built:** 16.11.1964  
**Operating System:** IP POOL  
**Intended Use:** PASSENGERS  
**Remarks:** EX AD;COACH 1ST CLASS  
**BSG Code:** PSPC

Capacity of 66 passengers

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Return to Service Date:	04.07.1992
Last Triple Valve:	21.02.1992
Last Lift:	20.05.1987

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- 23.07.1982** Alteration complete 'CONVERSION OF (5) AVCY BRAKE VANS , (5) 'AG' AND (4) 'BG' COACH CARS FROM 1600MM TO 1435MM GUAGE BY MODIFYING BOGIES. (C1975)'.  
**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.  
**22.05.1987** Alteration complete 'REPLACE EXISTING SHOWER ROSE WITH 'CONSERVA' LOW PRESSURE SHOWER ROSE NO. 56/203 TO ALL PASSENGER CARS WHICH ARE FITTED WITH SHOWER COMPART- MENTS. (RS4201)'.  
**20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.  
**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.  
**09.12.1987** Alteration complete 'RENUMBER THE SEATS OF 'AG' AND 'BG' COACH CLASS PASSENGER CARS. (RS4246)'.  
**10.12.1987** Alteration 'REMOVE 'CONSERVA' SHOWER ROSE, FIT IN-LINE RESTICTOR AND REFIT ORIGINAL SHOWER ROSE. THIS ALTERATION SUPERCEDES ALTERATION RS4201. ALL PASSENGER CARS WITH SHOWER COMPARTMENTS (EXCEPT I.P. CARS). (RS4247)'.  
**01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.



- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 01.06.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 10.05.1991** Alteration 'SEATS TO REPAIR A/C UPHOLSTERY A/C CABINET MOD WATER TANKS TO ADD (AG375)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 30.09.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 30.09.1991** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 30.09.1991** Repair 'BOGIE COMPLETE'.
- 30.09.1991** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 30.09.1991** Repair 'CONCERTINA (PASS.)'.
- 30.09.1991** Repair 'COUPLER KNUCKLE'.
- 30.09.1991** Repair 'DRAFT GEAR POCKET'.
- 30.09.1991** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 30.09.1991** Repair 'END COMPLETE'.
- 30.09.1991** Repair 'EVAPORATOR UNIT (PASS.)'.
- 30.09.1991** Repair 'FLOOR SHEETING'.
- 30.09.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 30.09.1991** Repair 'WEAR PLATES & SADDLES'.
- 30.09.1991** Repair 'WHEEL SET'.
- 30.09.1991** Repair 'YOKE PIN'.
- 05.11.1991** Alteration 'PROVIDE SEATING FOR ADDITIONAL 10 PASSENGERS. AG 372-376 (RS4652)'.
- 04.07.1992** Repair 'WHEEL SET'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**AG 376**

Details: passenger car 'AG 376 X' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$112610

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-22

**Date Built:** 13.11.1964

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** EX AD;COACH 1ST CLASS

**BSG Code:** PSPC

Capacity of 66 passengers

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Return to Service Date:	08.07.1992
Due Triple Valve:	17.11.1990
Last Brake Cylinder:	01.08.1988
Last Single Car Test:	01.08.1988
Last Lift:	15.03.1979

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**23.07.1982** Alteration complete 'CONVERSION OF (5) AVCY BRAKE VANS , (5) 'AG' AND (4) 'BG' COACH CARS FROM 1600MM TO 1435MM GUAGE BY MODIFYING BOGIES. (C1975)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**09.12.1987** Alteration complete 'RENUMBER THE SEATS OF 'AG' AND 'BG' COACH CLASS PASSENGER CARS. (RS4246)'.

**01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

**03.11.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**03.11.1989** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.

- 03.11.1989** Repair 'BOGIE BOLSTER'.
- 03.11.1989** Repair 'BOGIE CLEARANCE'.
- 03.11.1989** Repair 'BOGIE COMPLETE'.
- 03.11.1989** Repair 'BRANCH PIPE'.
- 03.11.1989** Repair 'COMPLETE TRIPLE VALVE 'AF' OR 'TIV'".
- 03.11.1989** Repair 'COUPLER KNUCKLE'.
- 03.11.1989** Repair 'COUPLER KNUCKLE PIN'.
- 03.11.1989** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 03.11.1989** Repair 'END COMPLETE'.
- 03.11.1989** Repair 'END HOSE'.
- 03.11.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 03.11.1989** Repair 'SIDE BEARER'.
- 03.11.1989** Repair 'TRAIN PIPE'.
- 03.11.1989** Repair 'WEAR PLATES & SADDLES'.
- 07.12.1989** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 07.12.1989** Repair 'AIR CONDITIONER CONDENSOR (PASS.)'.
- 07.12.1989** Repair 'AIR CONDITIONER MOTOR (PASS.)'.
- 07.12.1989** Repair 'BATTERY BOX (PASS.)'.
- 07.12.1989** Repair 'BATTERY CHARGER (PASS.)'.
- 07.12.1989** Repair 'ELECTRICAL CONTROL PANEL (PASS.)'.
- 07.12.1989** Repair 'EVAPORATOR UNIT (PASS.)'.
- 07.12.1989** Repair 'HOT WATER TANK (PASS.)'.
- 07.12.1989** Repair 'LIGHTING (INTERIOR)'.
- 15.12.1989** Repair 'INTERIOR FURBISHINGS (PASS.)'.
- 15.12.1989** Repair 'SAFETY EQUIPMENT (PASS)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 01.10.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 24.06.1991** Repair 'WHEEL SET'.
- 05.11.1991** Alteration 'PROVIDE SEATING FOR ADDITIONAL 10 PASSENGERS. AG 372-376 (RS4652)'.
- 08.07.1992** Repair 'WHEEL SET'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11.

(RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**01.02.1995** Alteration 'REMOVE COLD CATHODE LIGHTING SYSTEM & REPLACE WITH RAPID START FLOURESCENT LIGHTING. REFER SCOPE OF WORK. AG 374 & AG 376. (RS4891)'.

## **2.19 Passengers Vehicle classification starting with 'AJ'**

### **AJ 1**

Details: passenger car 'AJ 1 H' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 49.1tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$37910

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-8

**Date Built:** 28.11.1951

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** COACH 1ST CL.JOINT STOCK AN-V/LINE

**BSG Code:** PBMC

Capacity of 48 passengers

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Return to Service Date:	04.12.1990
Due Triple Valve:	01.11.1994
Last Lift:	01.11.1986

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**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

- 19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 04.12.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

## AJ 2

Details: passenger car 'AJ 2 Q' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 49.1tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Original Cost:** \$37910

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-8

**Date Built:** 29.11.1951

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** COACH 1ST CL.JOINT STOCK AN-V/LINE

**BSG Code:** PBMC

Capacity of 48 passengers

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Return to Service Date:	07.08.1990
Due Triple Valve:	01.09.1997
Last Lift:	18.09.1987

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- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 07.08.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

### AJ 3

Details: passenger car 'AJ 3 C' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.8tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Original Cost:** \$54130

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-8

**Date Built:** 29.06.1962

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** COACH 1ST CL.JOINT STOCK AN-V/LINE

**BSG Code:** PBMC

Capacity of 48 passengers

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Return to Service Date:	10.01.1992
Last Lift:	10.10.1985

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**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 10.01.1992** Repair 'WHEEL SET'.

## 2.20 Passengers Vehicle classification starting with 'AK'

### AK 1

Details: passenger car 'AK 1 J' in AN 'Mainland Division'.

**Owner:** AN  
**Operator:** C  
**Length Over Headstocks:** 21.2m  
**Tare Weight:** 41.5tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Original Cost:** \$14810  
**Diagram Book Page No.:** CB P-16  
**Date Built:** 01.01.1935  
**Operating System:** AN  
**Intended Use:** PASSENGERS  
**Remarks:** EX HIRE TO V/LINE;EX 500  
**BSG Code:** PBIE

Capacity of 42 passengers

- 17.12.1986** Alteration 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

## **2.21 Passengers Vehicle classification starting with 'ALB'**

### **ALBE**

Details: passenger car 'ALBE F' in AN 'Eyre Peninsula Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 18.2m

**Tare Weight:** 25.3tonne

**Current Gauge:** Narrow

**Gauge Restrictions:** N

**Bogie Configuration:** 2X2

**Original Cost:** \$6090

**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown

**Diagram Book Page No.:** CN 22

**Date Built:** 20.09.1915

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** SPECIAL SERVICE CAR

**BSG Code:** DEZZ

Capacity of 18 passengers

## **2.22 Passengers Vehicle classification starting with 'ALL'**

### **ALLA**

**25.03.1987** Reclassified from passenger car 'ALLA T' to passenger car 'JRB 1 P'.

## **2.23 Passengers Vehicle classification starting with 'ANG'**

### **ANGA**

Details: passenger car 'ANGA X' in AN 'Mainland Division'.

**Owner:** A.R.H.S

**Operator:** C

**Length Over Headstocks:** 21.7m

**Tare Weight:** 40tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1920

**Operating System:** ARHS



**Intended Use:** PASSENGERS**Remarks:** NAMED ANGAS;SLEEPING CARRIAGE**BSG Code:** PBSS

Capacity of 16 passengers

## 2.24 Passengers Vehicle classification starting with 'AOB'

### AOB 265

Details: passenger car 'AOB 265 G' in AN 'Mainland Division'.

**Owner:** AN**Operator:** P**Length Over Headstocks:** 22.9m**Tare Weight:** 44.1tonne**Current Gauge:** Standard**Gauge Restrictions:** S**Bogie Configuration:** 2X2**Original Cost:** \$120690**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate**Diagram Book Page No.:** NS 37**Date Built:** 04.11.1969**Operating System:** TRANS POOL**Intended Use:** PASSENGERS**Remarks:** EX CDF;LOUNGE CAR;'OASIS BAR'**BSG Code:** PSTL

Capacity of 54 passengers

Return to Service Date:	15.11.1993
Last Lift:	16.11.1985

**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.**08.02.1983** Alteration complete 'MANUFACTURE AND INSTALLATION OF DISPLAY CABINET. (01s83)'.**04.06.1984** Alteration complete 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.**10.09.1985** Alteration complete 'MODIFICATION TO KITCHEN COMPARTMENT INCORPORATING THE FITTING OF UPRIGHT FREEZER, MICROWAVE OVEN AND PIE WARMER. CDF 225, 226, 227 AND 265. (RS4067)'.**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 26.07.1988** Alteration complete "GHAN' PASSENGER CAR INTERIOR REFURBISHMENT. A. REFURBISH INTERIOR OF ALL CARS IN ACCORDANCE WITH DRAWINGS. B. RECLASSIFY CDF 265 TO AOB 265. (RS4304)' New class: 'AOB'.
- 19.03.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 21.07.1991** Repair 'WHEEL SET'.
- 12.11.1992** Repair 'WHEEL SET'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 15.11.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 15.11.1993** Repair 'BOGIE BEARERS'.
- 15.11.1993** Repair 'BOGIE CLEARANCE'.
- 15.11.1993** Repair 'BOGIE COMPLETE'.
- 15.11.1993** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 15.11.1993** Repair 'END COMPLETE'.
- 15.11.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 15.11.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL

STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FROM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## **2.25 Passengers Vehicle classification starting with 'ARD'**

### **ARD 80**

**10.11.1981** Alteration 'REPLACE EXISTING AUXILLARY RESERVOIR WITH NEW 15' X 36' RESERVOIR. (20s81)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

**23.11.1995** Repair 'VEHICLE CUT FOR SCRAP'.

### **ARD 81**

**10.11.1981** Alteration 'REPLACE EXISTING AUXILLARY RESERVOIR WITH NEW 15' X 36' RESERVOIR. (20s81)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**12.02.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**12.02.1990** Repair 'OTHER SLACK ADJUSTER COMPLETE'.

**12.02.1990** Repair 'TRAIN PIPE (END)'.

**12.02.1990** Repair 'TRAIN PIPE'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

**23.11.1995** Repair 'VEHICLE CUT FOR SCRAP'.

## **ARD 82**

**10.11.1981** Alteration 'REPLACE EXISTING AUXILLARY RESERVOIR WITH NEW 15' X 36' RESERVOIR. (20s81)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**24.01.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**24.01.1991** Repair 'BRANCH PIPE'.

**24.01.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.

**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

**23.11.1995** Repair 'VEHICLE CUT FOR SCRAP'.

## **ARD 83**

**10.11.1981** Alteration 'REPLACE EXISTING AUXILLARY RESERVOIR WITH NEW 15' X 36' RESERVOIR. (20s81)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**31.01.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**31.01.1991** Repair 'BOGIE BRAKE BLOCKS X92'.

**31.01.1991** Repair 'BOGIE COMPLETE'.

- 31.01.1991** Repair 'END COMPLETE'.
- 31.01.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 06.03.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 06.03.1991** Repair 'BOGIE COMPLETE'.
- 06.03.1991** Repair 'BRIDGE PLATE ASSEMBLY'.
- 06.03.1991** Repair 'COUPLER COMPLETE'.
- 06.03.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 06.03.1991** Repair 'VESTIBULE (PASS.)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 14.04.1994** Repair 'VEHICLE SOLD'.

## 2.26 Passengers Vehicle classification starting with 'ARE'

### ARE 101

- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 19.12.1995** Repair 'VEHICLE CUT FOR SCRAP'.

### ARE 105

Details: passenger car 'ARE 105 M' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 24.4m

**Tare Weight:** 43.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$104820

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 64

**Date Built:** 28.11.1957

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** STORED PPI;ROOMETTE - CCE PT. AUGUSTA

**BSG Code:** DSDZ

Capacity of 18 sleeping

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Return to Service Date:	18.04.1990
Last Triple Valve:	02.05.1990
Last Lift:	27.02.1979

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**13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

**18.04.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**18.04.1990** Repair 'BRANCH PIPE'.

**18.04.1990** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.

**18.04.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.

**18.04.1990** Repair 'ISOLATING COCK'.

**18.04.1990** Repair 'TRAIN PIPE'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

## ARE 106

Details: passenger car 'ARE 106 V' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 24.4m

**Tare Weight:** 43.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$104820

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 64

**Date Built:** 05.12.1957

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS ROOMETTE

**BSG Code:** DSDZ

Capacity of 18 sleeping

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Return to Service Date:	01.12.1993
Last Lift:	04.01.1985

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**13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

- 17.10.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 17.10.1989** Repair 'BOGIE BRAKE BLOCKS X92'.
- 17.10.1989** Repair 'BOGIE BRAKE BLOCKS X92'.
- 17.10.1989** Repair 'BOGIE CLEARANCE'.
- 17.10.1989** Repair 'BOGIE COMPLETE'.
- 17.10.1989** Repair 'COUPLER KNUCKLE'.
- 17.10.1989** Repair 'COUPLER KNUCKLE PIN'.
- 17.10.1989** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 17.10.1989** Repair 'END COMPLETE'.
- 17.10.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS.  
ALL PASSENGER CARS. (RS4518)'.
- 19.11.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 19.11.1990** Repair 'TRAIN PIPE'.
- 15.02.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 15.02.1991** Repair 'BOGIE BRAKE BLOCKS X92'.
- 15.02.1991** Repair 'BOGIE BRAKE BLOCKS X92'.
- 15.02.1991** Repair 'BOGIE CLEARANCE'.
- 15.02.1991** Repair 'END COMPLETE'.
- 15.02.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 15.02.1991** Repair 'WHEEL SET'.
- 25.03.1991** Repair 'COUPLER KNUCKLE PIN'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN'  
'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN  
HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH  
P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH  
P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE  
BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS.  
(RS4603)'.
- 02.06.1993** Repair 'WHEEL SET'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN)  
REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR  
CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK.  
(RS4800)'.
- 20.08.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 28.09.1993** Repair 'BOGIE COMPLETE'.
- 13.10.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 18.10.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 18.10.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 20.10.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 20.10.1993** Repair 'COUPLER COMPLETE'.
- 20.10.1993** Repair 'COUPLER KNUCKLE'.
- 20.10.1993** Repair 'COUPLER SUPPORT PLATE AND LINER'.
- 20.10.1993** Repair 'UNCOUPLING ROD ASSEMBLY'.
- 17.11.1993** Repair 'BOGIE COMPLETE'.
- 17.11.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 01.12.1993** Repair 'UNCOUPLING ROD ASSEMBLY'.
- 01.12.1993** Repair 'VEHICLE COMPLETE'.



**ARE 107**

- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 10.11.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 10.11.1989** Repair 'BOGIE BRAKE BLOCKS X92'.
- 10.11.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 07.08.1993** Repair 'VEHICLE SOLD'.

**ARE 108**

Details: passenger car 'ARE 108 Q' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 24.4m

**Tare Weight:** 43.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$104820

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 64

**Date Built:** 06.03.1958

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS ROOMETTE

**BSG Code:** DSDZ

Capacity of 18 sleeping

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Return to Service Date:	03.07.1989
Last Triple Valve:	19.02.1988
Last Single Car Test:	10.07.1989
Last Lift:	31.01.1980

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- 13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 03.07.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 03.07.1989** Repair 'BRAKE PULL ROD'.
- 03.07.1989** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

## **2.27 Passengers Vehicle classification starting with 'ARF'**

### **ARF 85**

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**25.10.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.  
**25.10.1989** Repair 'BOGIE WEAR PLATES'.  
**25.10.1989** Repair 'BRANCH PIPE'.  
**25.10.1989** Repair 'END COMPLETE'.  
**25.10.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.  
**25.10.1989** Repair 'OTHER BRAKE CYLINDER COMPLETE'.  
**15.12.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.  
**15.12.1989** Repair 'BOGIE CLEARANCE'.  
**15.12.1989** Repair 'BOGIE WEAR PLATES'.  
**15.12.1989** Repair 'BOGIE WEAR PLATES'.  
**15.12.1989** Repair 'BOGIE WEAR PLATES'.  
**15.12.1989** Repair 'BRANCH PIPE'.  
**15.12.1989** Repair 'COUPLER INTERNAL LOCKING PARTS'.  
**15.12.1989** Repair 'END COMPLETE'.  
**15.12.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.  
**15.12.1989** Repair 'OTHER SLACK ADJUSTER COMPLETE'.  
**14.03.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.  
**14.03.1990** Repair 'COUPLER INTERNAL LOCKING PARTS'.  
**14.03.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.  
**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS.  
 ALL PASSENGER CARS. (RS4518)'.  
**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN)  
 REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR  
 CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK.  
 (RS4800)'.  
**13.12.1995** Repair 'VEHICLE SOLD'.

## 2.28 Passengers Vehicle classification starting with 'ARH'

### ARH 159

Details: passenger car 'ARH 159 F' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 50.1tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$172500

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 67

**Date Built:** 29.06.1965

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** TWINETTE

**BSG Code:** DSDZ

### Capacity of 18 sleeping

Return to Service Date:	17.01.1991
Last Lift:	29.07.1981

- 04.07.1979** Alteration 'ALTERATION TO INDIVIDUAL STEPS IN ACCORDANCE TO DRAWING. (03s79)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 17.01.1991** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

## 2.29 Passengers Vehicle classification starting with 'ARJ'

### ARJ 242

Details: passenger car 'ARJ 242 Q' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.5tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$168190  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** NS 68  
**Date Built:** 07.02.1969  
**Operating System:** TRANS POOL  
**Intended Use:** PASSENGERS  
**Remarks:** 1ST CLASS ROOMETTE  
**BSG Code:** PSTR

### Capacity of 18 sleeping

Fleet Grp Code:	AH
Return to Service Date:	07.11.1991
Last Triple Valve:	28.05.1991
Last Single Car Test:	07.11.1991
Last Lift:	03.07.1985

- 17.02.1982** Alteration 'FITTING BERTH PROTECTION STRIPS. (06s82)'.
- 27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 04.06.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. (C2069)'.
- 10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.

- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 26.07.1988** Alteration "GHAN" PASSENGER CAR INTERIOR REFURBISHMENT. A. REFURBISH INTERIOR OF ALL CARS IN ACCORDANCE WITH DRAWINGS. B. RECLASSIFY CDF 265 TO AOB 265. (RS4304)'. New class: 'AOB'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 15.10.1989** Repair 'WHEEL SET'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 15.05.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 15.05.1991** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 15.05.1991** Repair 'BOGIE CLEARANCE'.
- 15.05.1991** Repair 'BOGIE COMPLETE'.
- 15.05.1991** Repair 'BRIDGE PLATE ASSEMBLY'.
- 15.05.1991** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 15.05.1991** Repair 'CONCERTINA (PASS.)'.
- 15.05.1991** Repair 'CONCERTINA (PASS.)'.
- 15.05.1991** Repair 'COUPLER KNUCKLE'.
- 15.05.1991** Repair 'COUPLER KNUCKLE PIN'.
- 15.05.1991** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 15.05.1991** Repair 'END COMPLETE'.
- 15.05.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 15.05.1991** Repair 'VESTIBULE (PASS.)'.
- 15.05.1991** Repair 'VESTIBULE (PASS.)'.
- 15.05.1991** Repair 'VESTIBULE (PASS.)'.
- 15.05.1991** Repair 'WHEEL SET'.
- 15.05.1991** Repair 'YOKE COMPLETE'.
- 15.05.1991** Repair 'YOKE PIN'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 07.11.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION

SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FROM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

### ARJ 243

Details: passenger car 'ARJ 243 C' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$168190

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 68

**Date Built:** 07.02.1969

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS ROOMETTE

**BSG Code:** PSPR

Capacity of 18 sleeping

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Return to Service Date:	24.03.1993
Last Lift:	12.12.1986

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**17.02.1982** Alteration complete 'FITTING BERTH PROTECTION STRIPS. (06s82)'.

**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**04.06.1984** Alteration complete 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.

**10.03.1986** Alteration 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 18.12.1990** Repair 'WHEEL SET'.
- 09.05.1991** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 24.03.1993** Repair 'WHEEL SET'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP



AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11.  
(RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON  
ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO.  
A1/C8-10. (RS4811)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES  
WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## ARJ 272

Details: passenger car 'ARJ 272 R' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$168190

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 68

**Date Built:** 17.09.1969

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS ROOMETTE

**BSG Code:** PSPR

Capacity of 18 sleeping

Return to Service Date:	02.06.1995
Last Lift:	04.05.1982

**17.02.1982** Alteration complete 'FITTING BERTH PROTECTION STRIPS. (06s82)'.

**27.08.1982** Alteration complete 'MODIFY HANDBRAKE PULLEY ON STAINLESS  
STEEL CARS. (16s82)'.

**04.06.1984** Alteration complete 'ALTERATION TO VESTIBLE ENTRANCE FLAPS.  
(C2069)'.

**10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP  
OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA.  
(RS4109)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS  
TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF  
APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS.  
CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO  
PASSENGER CARS. (RS4190)'.

- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 26.07.1988** Alteration complete 'GHAN' PASSENGER CAR INTERIOR REFURBISHMENT. A. REFURBISH INTERIOR OF ALL CARS IN ACCORDANCE WITH DRAWINGS. B. RECLASSIFY CDF 265 TO AOB 265. (RS4304)' New class: 'AOB'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 23.02.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration complete 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 14.08.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration complete 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration complete 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration complete 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration complete 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

- 04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration complete 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration complete 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCONE' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.
- 02.06.1995** Repair 'A/C AIR FILTRATION'.
- 02.06.1995** Repair 'A/C PIPEWORK/ANNACONDAS'.
- 02.06.1995** Repair 'BOGIE BEARERS'.
- 02.06.1995** Repair 'BOGIE BRAKE RIGGING, LEVERS & RODS'.
- 02.06.1995** Repair 'BRAKE SPREADER & HANGERS'.
- 02.06.1995** Repair 'COLD WATER TANK (PASS.)'.
- 02.06.1995** Repair 'CONCERTINA (PASS.)'.
- 02.06.1995** Repair 'CONCERTINA (PASS.)'.
- 02.06.1995** Repair 'CONCERTINA (PASS.)'.
- 02.06.1995** Repair 'ELECTRICAL CABLING'.
- 02.06.1995** Repair 'END FRAME MEMBER'.
- 02.06.1995** Repair 'EVAPORATOR UNIT (PASS.)'.
- 02.06.1995** Repair 'FLOOR SHEETING'.
- 02.06.1995** Repair 'HANDBRAKE HANDLE'.
- 02.06.1995** Repair 'INTERIOR FURBISHINGS (PASS.)'.
- 02.06.1995** Repair 'KITCHEN APPLIANCES (PASS.)'.
- 02.06.1995** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 02.06.1995** Repair 'REFRIG & AIR CON GAUGES'.
- 02.06.1995** Repair 'TOILETS'.
- 02.06.1995** Repair 'VESTIBULE (PASS.)'.
- 02.06.1995** Repair 'WATER FILTERS'.

## ARJ 282

Details: passenger car 'ARJ 282 C' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$168190

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 68

**Date Built:** 08.02.1972

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS ROOMETTE 'ALGEBUCKINI CAR'

**BSG Code:** PSTR

Capacity of 18 sleeping

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Return to Service Date:	22.01.1992
Last Lift:	11.04.1992

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**17.02.1982** Alteration complete 'FITTING BERTH PROTECTION STRIPS. (06s82)'.

**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**04.06.1984** Alteration 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.

**10.03.1986** Alteration 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.

**01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

**26.07.1988** Alteration "GHAN' PASSENGER CAR INTERIOR REFURBISHMENT. A. REFURBISH INTERIOR OF ALL CARS IN ACCORDANCE WITH DRAWINGS. B. RECLASSIFY CDF 265 TO AOB 265. (RS4304)'. New class: 'AOB'.

**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

**31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.

**20.04.1990** Repair 'WHEEL SET'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH

P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

**22.01.1992** Repair 'WHEEL SET'.

**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

**29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.

**03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FORM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOONE' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## ARJ 283

Details: passenger car 'ARJ 283 L' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$168190

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 68

**Date Built:** 22.02.1972

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS ROOMETTE

**BSG Code: PSPR****Capacity of 18 sleeping**

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Return to Service Date:	24.07.1992
Last Triple Valve:	16.08.1991
Last Single Car Test:	16.08.1991
Last Lift:	22.10.1982

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- 17.02.1982** Alteration complete 'FITTING BERTH PROTECTION STRIPS. (06s82)'.
- 27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 04.06.1984** Alteration complete 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.
- 10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 09.08.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.

- 09.08.1991** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 09.08.1991** Repair 'BOGIE COMPLETE'.
- 09.08.1991** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 09.08.1991** Repair 'COUPLER COMPLETE'.
- 09.08.1991** Repair 'COUPLER KNUCKLE PIN'.
- 09.08.1991** Repair 'COUPLER TRIGGER LEVER'.
- 09.08.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 09.08.1991** Repair 'YOKE COMPLETE'.
- 09.08.1991** Repair 'YOKE PIN'.
- 24.07.1992** Repair 'WHEEL SET'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## ARJ 940

Details: passenger car 'ARJ 940 B' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$164850

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 68

**Date Built:** 06.12.1968

**Operating System:** IP POOL

**Intended Use:** PASSENGERS**Remarks:** 1ST CLASS ROOMETTE;I.P.CARS**BSG Code:** PSPR

Capacity of 18 sleeping

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Return to Service Date:	07.10.1992
Last Lift:	26.07.1985

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- 05.12.1979** Alteration complete 'MODIFICATION OF SHOWER COMPARTMENT DOOR STEP. EXISTING DOOR STEP TO BE RAISED IN HEIGHT BY 12MM. ARJ 940, 941, 944, 945, 973, 984, 985, 986. BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP0679)'.
- 10.12.1979** Alteration 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO COMPARTMENT DOOR. DWG 3C 47A. ARJ 940, 941, 944, 973, 984, 985, 986. (IP0979)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration complete 'FIT BERTH PROTECTION STRIPS. DWG. 2C 153. ARJ 940, 941, 944, 945, 973, 984, 985, 986. (IP0582)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912,



914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.

**15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.

**31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**05.02.1987** Alteration 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.

**05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.

**20.03.1987** Alteration 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.

**11.06.1987** Alteration complete 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.

**26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.

**22.09.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.

**09.12.1987** Alteration complete 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**15.06.1992** Repair 'WHEEL SET'.

**07.10.1992** Repair 'WHEEL SET'.

**14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.

**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK.

(RS4800)'.

**29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.

**03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## ARJ 941

Details: passenger car 'ARJ 941 K' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$164850

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 68

**Date Built:** 27.11.1968

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS ROOMETTE;I.P.CARS

**BSG Code:** PSPR

Capacity of 18 sleeping

Return to Service Date:	21.04.1995
Due Triple Valve:	04.12.1990
Last Single Car Test:	18.09.1990
Last Lift:	04.12.1990

**05.12.1979** Alteration complete 'MODIFICATION OF SHOWER COMPARTMENT DOOR STEP. EXISTING DOOR STEP TO BE RAISED IN HEIGHT BY 12MM. ARJ 940, 941, 944, 945, 973, 984, 985, 986. BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP0679)'.

- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO COMPARTMENT DOOR. DWG 3C 47A. ARJ 940, 941, 944, 973, 984, 985, 986. (IP0979)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration complete 'FIT BERTH PROTECTION STRIPS. DWG. 2C 153. ARJ 940, 941, 944, 945, 973, 984, 985, 986. (IP0582)'.
- 27.08.1982** Alteration complete 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration complete 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration complete 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration complete 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 11.09.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 11.09.1990** Repair 'BOGIE WEAR PLATES'.
- 11.09.1990** Repair 'TOP CENTRE PLATE'.
- 11.09.1990** Repair 'WHEEL SET'.
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration complete 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration complete 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration complete 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

- 04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration complete 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration complete 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.
- 21.04.1995** Repair 'A/C AIR FILTRATION'.
- 21.04.1995** Repair 'A/C PIPEWORK/ANNACONDAS'.
- 21.04.1995** Repair 'BOGIE BEARERS'.
- 21.04.1995** Repair 'BOGIE BRAKE RIGGING, LEVERS & RODS'.
- 21.04.1995** Repair 'BRAKE SPREADER & HANGERS'.
- 21.04.1995** Repair 'COLD WATER TANK (PASS.)'.
- 21.04.1995** Repair 'COLD WATER TANK (PASS.)'.
- 21.04.1995** Repair 'CONCERTINA (PASS.)'.
- 21.04.1995** Repair 'CONCERTINA (PASS.)'.
- 21.04.1995** Repair 'ELECTRICAL CABLING'.
- 21.04.1995** Repair 'END FRAME MEMBER'.
- 21.04.1995** Repair 'EVAPORATOR UNIT (PASS.)'.
- 21.04.1995** Repair 'FLOOR SHEETING'.
- 21.04.1995** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 21.04.1995** Repair 'HOT WATER TANK (PASS.)'.
- 21.04.1995** Repair 'INTERIOR FURBISHINGS (PASS.)'.
- 21.04.1995** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 21.04.1995** Repair 'REFRIG & AIR CON GAUGES'.
- 21.04.1995** Repair 'TOILETS'.
- 21.04.1995** Repair 'WATER FILTERS'.
- 17.08.1995** Repair 'VEHICLE COMPLETE'.

## ARJ 944

Details: passenger car 'ARJ 944 Y' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$164850

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 68

**Date Built:** 07.02.1969

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS ROOMETTE;I.P.CARS**BSG Code:** PSPR**Capacity of 18 sleeping**

Return to Service Date:	07.05.1992
Last Triple Valve:	27.04.1989
Last Single Car Test:	02.08.1988
Last Lift:	07.07.1980

- 05.12.1979** Alteration complete 'MODIFICATION OF SHOWER COMPARTMENT DOOR STEP. EXISTING DOOR STEP TO BE RAISED IN HEIGHT BY 12MM. ARJ 940, 941, 944, 945, 973, 984, 985, 986. BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP0679)'.
- 10.12.1979** Alteration 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO COMPARTMENT DOOR. DWG 3C 47A. ARJ 940, 941, 944, 973, 984, 985, 986. (IP0979)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration complete 'FIT BERTH PROTECTION STRIPS. DWG. 2C 153. ARJ 940, 941, 944, 945, 973, 984, 985, 986. (IP0582)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912,

914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.

**15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.

**31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.

**05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.

**20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.

**11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.

**26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.

**22.09.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.

**09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**16.10.1990** Repair 'WHEEL SET'.

**07.05.1992** Repair 'WHEEL SET'.

**14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.

**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

### **ARJ 945**

Details: passenger car 'ARJ 945 A' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$164850

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 68

**Date Built:** 21.02.1969

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS ROOMETTE;I.P.CARS

**BSG Code:** PSPR

Capacity of 18 sleeping

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Return to Service Date:	06.12.1989
Last Triple Valve:	20.09.1988
Last Lift:	01.03.1983

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- 05.12.1979** Alteration complete 'MODIFICATION OF SHOWER COMPARTMENT DOOR STEP. EXISTING DOOR STEP TO BE RAISED IN HEIGHT BY 12MM. ARJ 940, 941, 944, 945, 973, 984, 985, 986. BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP0679)'.

- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.



- 10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO COMPARTMENT DOOR. DWG 3C 47A. ARJ 940, 941, 944, 973, 984, 985, 986. (IP0979)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration complete 'FIT BERTH PROTECTION STRIPS. DWG. 2C 153. ARJ 940, 941, 944, 945, 973, 984, 985, 986. (IP0582)'.
- 27.08.1982** Alteration complete 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.

- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration complete 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 06.12.1989** Repair 'WHEEL SET'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**ARJ 973**

Details: passenger car 'ARJ 973 G' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$164850

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 68

**Date Built:** 19.09.1969

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS ROOMETTE;I.P.CARS

**BSG Code:** PSPR

Capacity of 18 sleeping

Return to Service Date:	10.03.1992
Last Triple Valve:	17.11.1989
Last Lift:	14.08.1985

**05.12.1979** Alteration complete 'MODIFICATION OF SHOWER COMPARTMENT DOOR STEP. EXISTING DOOR STEP TO BE RAISED IN HEIGHT BY 12MM. ARJ 940, 941, 944, 945, 973, 984, 985, 986. BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP0679)'.

**10.12.1979** Alteration 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.

**10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.

**10.12.1979** Alteration complete 'MODIFICATION TO COMPARTMENT DOOR. DWG 3C 47A. ARJ 940, 941, 944, 973, 984, 985, 986. (IP0979)'.

**09.01.1980** Alteration 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.

**09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0280)'.

**12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.

- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration 'FIT BERTH PROTECTION STRIPS. DWG. 2C 153. ARJ 940, 941, 944, 945, 973, 984, 985, 986. (IP0582)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 03.02.1986** Alteration 'MODIFICATION - FIT DUMMY VOLUME RESERVOIR TO GOODWIN PASSENGER BOGIES AS FITTED TO I. P. PASSENGER CARS. DWGS. D7-CM-325, D7-CM-326, A2-7-CM-324. (IP0186)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT

INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

**03.11.1989** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.

**03.11.1989** Repair 'BOGIE CLEARANCE'.

**03.11.1989** Repair 'BOGIE COMPLETE'.

**03.11.1989** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.

**03.11.1989** Repair 'CONCERTINA (PASS.)'.

**03.11.1989** Repair 'CONCERTINA (PASS.)'.

**03.11.1989** Repair 'DRAFTGEAR COMPLETE HEAVY'.

**03.11.1989** Repair 'END COMPLETE'.

**03.11.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.

**03.11.1989** Repair 'VESTIBULE (PASS.)'.

**03.11.1989** Repair 'VESTIBULE (PASS.)'.

**21.12.1989** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.

**21.12.1989** Repair 'AIR CONDITIONER CONDENSOR (PASS.)'.

**21.12.1989** Repair 'AIR CONDITIONER MOTOR (PASS.)'.

**21.12.1989** Repair 'BATTERY BOX (PASS.)'.

**21.12.1989** Repair 'BATTERY CHARGER (PASS.)'.

**21.12.1989** Repair 'ELECTRICAL CONTROL PANEL (PASS.)'.

**21.12.1989** Repair 'EVAPORATOR UNIT (PASS.)'.

**21.12.1989** Repair 'HOT WATER TANK (PASS.)'.

**21.12.1989** Repair 'LIGHTING (INTERIOR)'.

**21.12.1989** Repair 'WATER COOLER (PASS.)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**10.03.1992** Repair 'WHEEL SET'.

**14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.

**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

**29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.

**03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## **ARJ 984**

Details: passenger car 'ARJ 984 A' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$164850

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 68

**Date Built:** 02.03.1972

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS ROOMETTE;I.P.CARS

**BSG Code:** PSPR

Capacity of 18 sleeping

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Return to Service Date:	13.12.1990
Last Triple Valve:	22.08.1989
Last Lift:	11.08.1980

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**05.12.1979** Alteration complete 'MODIFICATION OF SHOWER COMPARTMENT DOOR STEP. EXISTING DOOR STEP TO BE RAISED IN HEIGHT BY 12MM. ARJ 940, 941, 944, 945, 973, 984, 985, 986. BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP0679)'.

**10.12.1979** Alteration 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.

**10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.

**10.12.1979** Alteration complete 'MODIFICATION TO COMPARTMENT DOOR. DWG 3C 47A. ARJ 940, 941, 944, 973, 984, 985, 986. (IP0979)'.

**09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.

- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration 'FIT BERTH PROTECTION STRIPS. DWG. 2C 153. ARJ 940, 941, 944, 945, 973, 984, 985, 986. (IP0582)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP

PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.

- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 10.07.1989** Repair 'BOGIE COMPLETE'.
- 08.08.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 08.08.1989** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 08.08.1989** Repair 'BOGIE CLEARANCE'.
- 08.08.1989** Repair 'BOGIE COMPLETE'.
- 08.08.1989** Repair 'BRIDGE PLATE ASSEMBLY'.
- 08.08.1989** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 08.08.1989** Repair 'CONCERTINA (PASS.)'.
- 08.08.1989** Repair 'CONCERTINA (PASS.)'.
- 08.08.1989** Repair 'COUPLER KNUCKLE'.
- 08.08.1989** Repair 'COUPLER KNUCKLE PIN'.
- 08.08.1989** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 08.08.1989** Repair 'END HOSE'.
- 08.08.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 08.08.1989** Repair 'SIDE BEARER'.
- 08.08.1989** Repair 'TOP CENTRE PLATE'.
- 08.08.1989** Repair 'VESTIBULE (PASS.)'.
- 08.08.1989** Repair 'VESTIBULE (PASS.)'.
- 08.08.1989** Repair 'WEAR PLATES & SADDLES'.
- 22.09.1989** Repair 'COMBOLETS (PASS.)'.
- 22.09.1989** Repair 'FLOOR CARPET'.
- 22.09.1989** Repair 'FLOOR SHEETING'.
- 22.09.1989** Repair 'WATER SYSTEM'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 13.12.1990** Repair 'WHEEL SET'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.



- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## ARJ 985

Details: passenger car 'ARJ 985 J' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$164850

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 68

**Date Built:** 17.03.1972

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS ROOMETTE;I.P.CARS

**BSG Code:** PSPR

Capacity of 18 sleeping

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Return to Service Date:	22.08.1991
Last Triple Valve:	07.02.1989
Last Lift:	17.03.1983

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**05.12.1979** Alteration complete 'MODIFICATION OF SHOWER COMPARTMENT DOOR STEP. EXISTING DOOR STEP TO BE RAISED IN HEIGHT BY 12MM. ARJ 940, 941, 944, 945, 973, 984, 985, 986. BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP0679)'.

**10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.

**10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925,

- 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO COMPARTMENT DOOR. DWG 3C 47A. ARJ 940, 941, 944, 973, 984, 985, 986. (IP0979)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration complete 'FIT BERTH PROTECTION STRIPS. DWG. 2C 153. ARJ 940, 941, 944, 945, 973, 984, 985, 986. (IP0582)'.
- 27.08.1982** Alteration complete 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.

- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration complete 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration complete 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 04.12.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 04.12.1990** Repair 'BOGIE BRAKE BLOCKS X92'.
- 04.12.1990** Repair 'BOGIE BRAKE BLOCKS X92'.
- 04.12.1990** Repair 'BOGIE CLEARANCE'.
- 04.12.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 22.08.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 22.08.1991** Repair 'BOGIE BRAKE BLOCKS X92'.
- 22.08.1991** Repair 'BOGIE BRAKE BLOCKS X92'.
- 22.08.1991** Repair 'BOGIE CLEARANCE'.
- 22.08.1991** Repair 'BRANCH PIPE'.
- 22.08.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 22.08.1991** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**ARJ 986**

Details: passenger car 'ARJ 986 S' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$164850

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 68

**Date Built:** 01.08.1972

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS ROOMETTE;I.P.CARS

**BSG Code:** PSPR

Capacity of 18 sleeping

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Return to Service Date:	23.06.1992
Due Triple Valve:	19.05.1997
Last Triple Valve:	24.06.1992
Last Lift:	19.05.1990

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- 05.12.1979** Alteration complete 'MODIFICATION OF SHOWER COMPARTMENT DOOR STEP. EXISTING DOOR STEP TO BE RAISED IN HEIGHT BY 12MM. ARJ 940, 941, 944, 945, 973, 984, 985, 986. BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP0679)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO COMPARTMENT DOOR. DWG 3C 47A. ARJ 940, 941, 944, 973, 984, 985, 986. (IP0979)'.

- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration 'FIT BERTH PROTECTION STRIPS. DWG. 2C 153. ARJ 940, 941, 944, 945, 973, 984, 985, 986. (IP0582)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.

- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 23.10.1990** Repair 'WHEEL SET'.
- 23.06.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 23.06.1992** Repair 'BOGIE BEARERS'.
- 23.06.1992** Repair 'BOGIE CLEARANCE'.
- 23.06.1992** Repair 'BOGIE COMPLETE'.
- 23.06.1992** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 23.06.1992** Repair 'CONCERTINA (PASS.)'.
- 23.06.1992** Repair 'CONCERTINA (PASS.)'.
- 23.06.1992** Repair 'COUPLER KNUCKLE'.
- 23.06.1992** Repair 'COUPLER KNUCKLE PIN'.
- 23.06.1992** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 23.06.1992** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 23.06.1992** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 23.06.1992** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 23.06.1992** Repair 'WEAR PLATES & SADDLES'.
- 23.06.1992** Repair 'WHEEL SET'.
- 23.06.1992** Repair 'YOKE PIN'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP

AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11.  
(RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON  
ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO.  
A1/C8-10. (RS4811)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES  
WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## 2.30 Passengers Vehicle classification starting with 'ARL'

### ARL 246

Details: passenger car 'ARL 246 M' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$186700

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 07.02.1969

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE 'TARCOOLA CAR'

**BSG Code:** PSTT

Capacity of 18 sleeping

Fleet Grp Code:	AH
Return to Service Date:	02.05.1995
Last Triple Valve:	18.10.1988
Last Brake Cylinder:	19.02.1988
Last Single Car Test:	18.10.1988
Last Lift:	01.07.1983

**17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH  
FLAP ASSEMBLY UPPER AND LOWER BERTHS. (05s82)'.

**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS.  
(16s82)'.

**04.06.1984** Alteration 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.

**10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP  
OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA.  
(RS4109)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS  
TO INCREASE CLOSING FORCE. (RS4128)'.

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 26.07.1988** Alteration "GHAN" PASSENGER CAR INTERIOR REFURBISHMENT. A. REFURBISH INTERIOR OF ALL CARS IN ACCORDANCE WITH DRAWINGS. B. RECLASSIFY CDF 265 TO AOB 265. (RS4304)'. New class: 'AOB'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 03.12.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 08.08.1991** Repair 'WHEEL SET'.
- 02.10.1991** Alteration complete 'MODIFY BRAKE RIGGING TO SUIT SINGLE HIGH FRICTION BRAKE BLOCKS. CONVERSION TO BE CARRIED OUT ON ALL COACHES IN 'GHAN' CONSIST. TOTAL 20 NO. 'GHAN' COACHES. \*\*\*\*\* CANCELLED SEE ALTERATION RS 4808 \*\*\*\*\* (RS4642)'.
- 02.06.1992** Repair 'WHEEL SET'.
- 05.12.1992** Repair 'WHEEL SET'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN)



REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR  
CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK.  
(RS4800)'.

**03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP'  
PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION  
SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION  
ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP  
AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11.  
(RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON  
ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO.  
A1/C8-10. (RS4811)'.

**07.12.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**07.12.1993** Repair 'BOGIE BEARERS'.

**07.12.1993** Repair 'BOGIE CLEARANCE'.

**07.12.1993** Repair 'BOGIE COMPLETE'.

**07.12.1993** Repair 'BRAKE LEVER'.

**07.12.1993** Repair 'COUPLER COMPLETE'.

**07.12.1993** Repair 'COUPLER KNUCKLE PIN'.

**07.12.1993** Repair 'DRAFTGEAR COMPLETE HEAVY'.

**07.12.1993** Repair 'END COMPLETE'.

**07.12.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.

**07.12.1993** Repair 'YOKE CARRIER'.

**07.12.1993** Repair 'YOKE PIN'.

**25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL  
STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE  
OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS.  
INSTALL EARTH WIRE FROM MAIN SWBD TO AIR CON PANEL & REWIRE AS  
PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES  
WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## ARL 248

Details: passenger car 'ARL 248 H' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$186700

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 07.02.1969

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS**Remarks:** 1ST CLASS TWINETTE 'OODNADATTA CAR'**BSG Code:** PSTT

Capacity of 18 sleeping

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Return to Service Date:	12.02.1992
Last Triple Valve:	27.09.1989
Last Lift:	26.06.1985

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- 17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. (05s82)'.
- 27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 04.06.1984** Alteration 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.
- 10.03.1986** Alteration 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 26.07.1988** Alteration "GHAN' PASSENGER CAR INTERIOR REFURBISHMENT. A. REFURBISH INTERIOR OF ALL CARS IN ACCORDANCE WITH DRAWINGS. B. RECLASSIFY CDF 265 TO AOB 265. (RS4304)'. New class: 'AOB'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 22.09.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 22.09.1989** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 22.09.1989** Repair 'BOGIE COMPLETE'.
- 22.09.1989** Repair 'BRIDGE PLATE ASSEMBLY'.
- 22.09.1989** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 22.09.1989** Repair 'CONCERTINA (PASS.)'.

- 22.09.1989** Repair 'COUPLER KNUCKLE'.
- 22.09.1989** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 22.09.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 22.09.1989** Repair 'SIDE BEARER'.
- 22.09.1989** Repair 'VESTIBULE (PASS.)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 27.03.1990** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 27.03.1990** Repair 'AIR CONDITIONER CONDENSOR (PASS.)'.
- 27.03.1990** Repair 'AIR CONDITIONER MOTOR (PASS.)'.
- 27.03.1990** Repair 'BATTERY BOX (PASS.)'.
- 27.03.1990** Repair 'BATTERY CHARGER (PASS.)'.
- 27.03.1990** Repair 'ELECTRICAL CONTROL PANEL (PASS.)'.
- 27.03.1990** Repair 'EVAPORATOR UNIT (PASS.)'.
- 27.03.1990** Repair 'EXHAUST FANS (PASS.)'.
- 27.03.1990** Repair 'HOT WATER TANK (PASS.)'.
- 27.03.1990** Repair 'LIGHTING (INTERIOR)'.
- 27.03.1990** Repair 'WATER COOLER (PASS.)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 12.02.1992** Repair 'WHEEL SET'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

- 25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FROM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.
- 11.04.1994** Alteration 'FIT COUPLER LUBRICATION DISPENSING UNIT USING WICK SYSTEM ON ONE END OF CAR. AUTOCOUPLER AT OTHER END OF CAR TO BE LUBED USING 'ROCOL' A.S DRY LUBRICANT SPRAY. APPLICATION PROCEDURE TO BE AS FOLLOWS: CLEAN SURFACES TO BE LUBED USING MINERAL TURPS. BUILD UP REQUIRED LUBE FILM BY APPLYING SEVERAL THIN FILMS. ARL 248 (RS4817)'.

## **ARL 249**

Details: passenger car 'ARL 249 Q' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$186700

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 25.09.1968

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE

**BSG Code:** PSPT

Capacity of 18 sleeping

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Return to Service Date:	24.12.1994
Last Triple Valve:	03.04.1989
Last Lift:	12.03.1983

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**17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. (05s82)'.

**27.08.1982** Alteration complete 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**04.06.1984** Alteration complete 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.

**10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 30.11.1989** Alteration complete 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 21.06.1990** Alteration complete 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration complete 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration complete 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration complete 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration complete 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' &

'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**04.08.1993** Alteration complete 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**17.02.1994** Alteration complete 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCONE' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**24.12.1994** Repair 'A/C AIR FILTRATION'.

**24.12.1994** Repair 'A/C PIPEWORK/ANNACONDAS'.

**24.12.1994** Repair 'BOGIE BEARERS'.

**24.12.1994** Repair 'BOGIE BRAKE RIGGING, LEVERS & RODS'.

**24.12.1994** Repair 'BRAKE SPREADER & HANGERS'.

**24.12.1994** Repair 'COLD WATER TANK (PASS.)'.

**24.12.1994** Repair 'CONCERTINA (PASS.)'.

**24.12.1994** Repair 'CONCERTINA (PASS.)'.

**24.12.1994** Repair 'ELECTRICAL CABLING'.

**24.12.1994** Repair 'END FRAME MEMBER'.

**24.12.1994** Repair 'FLOOR SHEETING'.

**24.12.1994** Repair 'HANDBRAKE HANDLE'.

**24.12.1994** Repair 'INTERIOR FURBISHINGS (PASS.)'.

**24.12.1994** Repair 'KITCHEN APPLIANCES (PASS.)'.

**24.12.1994** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.

**24.12.1994** Repair 'REFRIG & AIR CON GAUGES'.

**24.12.1994** Repair 'TOILETS'.

**24.12.1994** Repair 'WATER FILTERS'.

**24.12.1994** Repair 'WATER SYSTEM'.

## ARL 250

Details: passenger car 'ARL 250 M' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$186700

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 11.10.1968

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS**Remarks:** 1ST CLASS TWINETTE 'KULGERA CAR'**BSG Code:** PSTT

Capacity of 18 sleeping

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Return to Service Date:	09.03.1994
Last Triple Valve:	05.04.1994
Last Lift:	20.09.1982

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- 17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. (05s82)'.
- 27.08.1982** Alteration complete 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 04.06.1984** Alteration 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.
- 10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 26.07.1988** Alteration complete 'GHAN' PASSENGER CAR INTERIOR REFURBISHMENT. A. REFURBISH INTERIOR OF ALL CARS IN ACCORDANCE WITH DRAWINGS. B. RECLASSIFY CDF 265 TO AOB 265. (RS4304)' New class: 'AOB'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.

- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 15.12.1989** Repair 'VEHICLE SIGNS AND BRACKETS'.
- 19.12.1989** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 19.12.1989** Repair 'AIR CONDITIONER CONDENSOR (PASS.)'.
- 19.12.1989** Repair 'AIR CONDITIONER MOTOR (PASS.)'.
- 19.12.1989** Repair 'BATTERY BOX (PASS.)'.
- 19.12.1989** Repair 'ELECTRICAL CONTROL PANEL (PASS.)'.
- 19.12.1989** Repair 'EVAPORATOR UNIT (PASS.)'.
- 19.12.1989** Repair 'EXHAUST FANS (PASS.)'.
- 19.12.1989** Repair 'HOT WATER TANK (PASS.)'.
- 19.12.1989** Repair 'LIGHTING (INTERIOR)'.
- 19.12.1989** Repair 'WATER COOLER (PASS.)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 18.08.1992** Repair 'WHEEL SET'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration complete 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 10.08.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 10.08.1993** Repair 'BOGIE COMPLETE'.
- 10.08.1993** Repair 'BRAKE PULL ROD'.
- 10.08.1993** Repair 'CONCERTINA (PASS.)'.
- 10.08.1993** Repair 'COUPLER SUPPORT PLATE AND LINER'.
- 10.08.1993** Repair 'DRAFT GEAR POCKET'.
- 10.08.1993** Repair 'END COMPLETE'.



**10.08.1993** Repair 'END FRAME MEMBER'.  
**10.08.1993** Repair 'END HOSE'.  
**10.08.1993** Repair 'UNCOUPLING ROD ASSEMBLY'.  
**10.08.1993** Repair 'WEAR PLATES & SADDLES'.  
**10.08.1993** Repair 'YOKE COMPLETE'.  
**10.08.1993** Repair 'YOKE PIN'.  
**10.08.1993** Repair 'YOKE SUPPORT PLATE LINER'.  
**25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FROM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.  
**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.  
**09.03.1994** Repair 'AIR BRAKE SYSTEM COMPLETE'.  
**09.03.1994** Repair 'BOGIE BEARERS'.  
**09.03.1994** Repair 'BOGIE BRAKE RIGGING, LEVERS & RODS'.  
**09.03.1994** Repair 'BOGIE CLEARANCE'.  
**09.03.1994** Repair 'BOGIE COMPLETE'.  
**09.03.1994** Repair 'BRAKE SPREADER & HANGERS'.  
**09.03.1994** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.  
**09.03.1994** Repair 'CONCERTINA (PASS.)'.  
**09.03.1994** Repair 'COUPLER COMPLETE'.  
**09.03.1994** Repair 'COUPLER KNUCKLE PIN'.  
**09.03.1994** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.  
**09.03.1994** Repair 'HANDBRAKE HANDLE'.  
**09.03.1994** Repair 'KITCHEN APPLIANCES (PASS.)'.

## ARL 289

Details: passenger car 'ARL 289 C' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$186700

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 07.07.1972

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE

**BSG Code:** PSPT

### Capacity of 18 sleeping

Return to Service Date:	18.10.1993
Last Triple Valve:	19.10.1993
Last Lift:	27.11.1984

- 17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. (05s82)'.
- 27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 04.06.1984** Alteration complete 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.
- 10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 14.08.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE

BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS.  
(RS4603)'.

- 24.02.1993** Alteration 'REMOVE STERILISING LAMP FROM THE SHOWER/TOILET CUBICLE ADJACENT THE CONDUCTORS COMPARTMENT OF THE 'ARL' AND 'ARM' PASSENGER CARS. DISCONNECT WIRING MARKED 'SZL' AND 'SZLN' FROM THE PO1 CIRCUIT IN EACH CAR AND MAKE SAFE. REINSTATE CUBICLE WALL WITH A STAINLESS STEEL COVERPLATE. ARM 288, ARL 289,291,293,308,310,324,326,920-923,925,990,992. (RS4775)'.
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 18.10.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 18.10.1993** Repair 'BOGIE BEARERS'.
- 18.10.1993** Repair 'BOGIE BEARERS'.
- 18.10.1993** Repair 'BOGIE CLEARANCE'.
- 18.10.1993** Repair 'BOGIE COMPLETE'.
- 18.10.1993** Repair 'BRANCH PIPE'.
- 18.10.1993** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 18.10.1993** Repair 'CONCERTINA (PASS.)'.
- 18.10.1993** Repair 'COUPLER INTERNAL LOCKING PARTS'.
- 18.10.1993** Repair 'COUPLER KNUCKLE'.
- 18.10.1993** Repair 'COUPLER KNUCKLE PIN'.
- 18.10.1993** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 18.10.1993** Repair 'END COMPLETE'.
- 18.10.1993** Repair 'END FRAME MEMBER'.
- 18.10.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 18.10.1993** Repair 'KITCHEN APPLIANCES (PASS.)'.
- 18.10.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 18.10.1993** Repair 'WEAR PLATES & SADDLES'.
- 18.10.1993** Repair 'YOKE PIN'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**ARL 291**

Details: passenger car 'ARL 291 H' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$186700

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 19.07.1972

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CL TWINETTE 'EDWARDS CREEK CAR'

**BSG Code:** PSTT

Capacity of 18 sleeping

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Return to Service Date:	10.05.1990
Last Lift:	15.03.1985

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**17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. (05s82)'.

**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**04.06.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. (C2069)'.

**10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM

COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 26.07.1988** Alteration "GHAN" PASSENGER CAR INTERIOR REFURBISHMENT. A. REFURBISH INTERIOR OF ALL CARS IN ACCORDANCE WITH DRAWINGS. B. RECLASSIFY CDF 265 TO AOB 265. (RS4304)'. New class: 'AOB'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 10.05.1990** Repair 'AIR CONDITIONER CONDENSOR (PASS.)'.
- 10.05.1990** Repair 'AIR CONDITIONER MOTOR (PASS.)'.
- 10.05.1990** Repair 'BATTERY BOX (PASS.)'.
- 10.05.1990** Repair 'BATTERY CHARGER (PASS.)'.
- 10.05.1990** Repair 'ELECTRICAL CONTROL PANEL (PASS.)'.
- 10.05.1990** Repair 'EVAPORATOR UNIT (PASS.)'.
- 10.05.1990** Repair 'EXHAUST FANS (PASS.)'.
- 10.05.1990** Repair 'HOT WATER TANK (PASS.)'.
- 10.05.1990** Repair 'LIGHTING (INTERIOR)'.
- 10.05.1990** Repair 'WATER COOLER (PASS.)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 24.02.1993** Alteration 'REMOVE STERILISING LAMP FROM THE SHOWER/TOILET CUBICLE ADJACENT THE CONDUCTORS COMPARTMENT OF THE 'ARL' AND 'ARM' PASSENGER CARS. DISCONNECT WIRING MARKED 'SZL' AND 'SZLN' FROM THE PO1 CIRCUIT IN EACH CAR AND MAKE SAFE. REINSTATE CUBICLE WALL WITH A STAINLESS STEEL COVERPLATE. ARM 288, ARL 289,291,293,308,310,324,326,920-923,925,990,992. (RS4775)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING

SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.

**03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FROM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

### **ARL 293**

Details: passenger car 'ARL 293 C' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$186700

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 01.09.1972

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE

**BSG Code:** PSPT

Capacity of 18 sleeping

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Return to Service Date:	27.08.1991
Last Triple Valve:	24.10.1990
Last Lift:	31.07.1981

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**17.02.1982** Alteration 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. (05s82)'.

- 27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 04.06.1984** Alteration 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.
- 10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 26.09.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 26.09.1990** Repair 'BOGIE CLEARANCE'.
- 26.09.1990** Repair 'BOGIE COMPLETE'.
- 26.09.1990** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 26.09.1990** Repair 'CONCERTINA (PASS.)'.
- 26.09.1990** Repair 'CONCERTINA (PASS.)'.
- 26.09.1990** Repair 'COUPLER COMPLETE'.
- 26.09.1990** Repair 'COUPLER KNUCKLE'.
- 26.09.1990** Repair 'COUPLER KNUCKLE PIN'.
- 26.09.1990** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 26.09.1990** Repair 'END COMPLETE'.
- 26.09.1990** Repair 'END HOSE'.
- 26.09.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 26.09.1990** Repair 'VESTIBULE (PASS.)'.

- 26.09.1990** Repair 'VESTIBULE (PASS.)'.
- 26.09.1990** Repair 'WEAR PLATES & SADDLES'.
- 26.09.1990** Repair 'YOKE COMPLETE'.
- 26.09.1990** Repair 'YOKE PIN'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 27.08.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 27.08.1991** Repair 'BOGIE CLEARANCE'.
- 27.08.1991** Repair 'BOGIE COMPLETE'.
- 27.08.1991** Repair 'END COMPLETE'.
- 27.08.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 27.08.1991** Repair 'WHEEL SET'.
- 24.02.1993** Alteration 'REMOVE STERILISING LAMP FROM THE SHOWER/TOILET CUBICLE ADJACENT THE CONDUCTORS COMPARTMENT OF THE 'ARL' AND 'ARM' PASSENGER CARS. DISCONNECT WIRING MARKED 'SZL' AND 'SZLN' FROM THE PO1 CIRCUIT IN EACH CAR AND MAKE SAFE. REINSTATE CUBICLE WALL WITH A STAINLESS STEEL COVERPLATE. ARM 288, ARL 289,291,293,308,310,324,326,920-923,925,990,992. (RS4775)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## **ARL 308**

Details: passenger car 'ARL 308 F' in AN 'Mainland Division'.

**Owner:** AN



**Operator:** C**Length Over Headstocks:** 22.9m**Tare Weight:** 47.8tonne**Current Gauge:** Standard**Gauge Restrictions:** S**Bogie Configuration:** 2X2**Original Cost:** \$186700**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate**Diagram Book Page No.:** NS 69**Date Built:** 20.09.1973**Operating System:** IP POOL**Intended Use:** PASSENGERS**Remarks:** 1ST CLASS TWINETTE**BSG Code:** PSPT

Capacity of 18 sleeping

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Return to Service Date:	28.01.1995
Last Triple Valve:	14.04.1993
Last Lift:	14.03.1983

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- 17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. (05s82)'.
- 27.08.1982** Alteration complete 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 04.06.1984** Alteration complete 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.
- 10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 30.11.1989** Alteration complete 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 21.06.1990** Alteration complete 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 01.03.1991** Repair 'WHEEL SET'.
- 19.03.1991** Repair 'WHEEL SET'.
- 28.05.1991** Alteration complete 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 24.02.1993** Alteration complete 'REMOVE STERILISING LAMP FROM THE SHOWER/TOILET CUBICLE ADJACENT THE CONDUCTORS COMPARTMENT OF THE 'ARL' AND 'ARM' PASSENGER CARS. DISCONNECT WIRING MARKED 'SZL' AND 'SZLN' FROM THE PO1 CIRCUIT IN EACH CAR AND MAKE SAFE. REINSTATE CUBICLE WALL WITH A STAINLESS STEEL COVERPLATE. ARM 288, ARL 289,291,293,308,310,324,326,920-923,925,990,992. (RS4775)'.
- 30.03.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 30.03.1993** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 30.03.1993** Repair 'BOGIE BEARERS'.
- 30.03.1993** Repair 'BOGIE CLEARANCE'.
- 30.03.1993** Repair 'BOGIE COMPLETE'.
- 30.03.1993** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 30.03.1993** Repair 'COUPLER COMPLETE'.
- 30.03.1993** Repair 'COUPLER KNUCKLE'.
- 30.03.1993** Repair 'COUPLER KNUCKLE PIN'.
- 30.03.1993** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 30.03.1993** Repair 'ELECTRICAL CABLING'.
- 30.03.1993** Repair 'EVAPORATOR UNIT (PASS.)'.
- 30.03.1993** Repair 'FLOOR SHEETING'.
- 30.03.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 30.03.1993** Repair 'ISOLATING COCK'.
- 30.03.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 30.03.1993** Repair 'YOKE PIN'.
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration complete 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK.

(RS4800)'.

**29.07.1993** Alteration complete 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.

**03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**04.08.1993** Alteration complete 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**17.02.1994** Alteration complete 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**28.01.1995** Repair 'A/C AIR FILTRATION'.

**28.01.1995** Repair 'A/C PIPEWORK/ANNACONDAS'.

**28.01.1995** Repair 'BOGIE BEARERS'.

**28.01.1995** Repair 'BOGIE BRAKE RIGGING, LEVERS & RODS'.

**28.01.1995** Repair 'BRAKE SPREADER & HANGERS'.

**28.01.1995** Repair 'BUNK (PASS.)'.

**28.01.1995** Repair 'CONCERTINA (PASS.)'.

**28.01.1995** Repair 'CONCERTINA (PASS.)'.

**28.01.1995** Repair 'ELECTRICAL CABLING'.

**28.01.1995** Repair 'END FRAME MEMBER'.

**28.01.1995** Repair 'EVAPORATOR UNIT (PASS.)'.

**28.01.1995** Repair 'HANDBRAKE HANDLE'.

**28.01.1995** Repair 'INTERIOR FURBISHINGS (PASS.)'.

**28.01.1995** Repair 'KITCHEN APPLIANCES (PASS.)'.

**28.01.1995** Repair 'LIGHTING (INTERIOR)'.

**28.01.1995** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.

**28.01.1995** Repair 'REFRIG & AIR CON GAUGES'.

**28.01.1995** Repair 'TOILETS'.

## ARL 309

Details: passenger car 'ARL 309 Y' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$186700

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** NS 69  
**Date Built:** 04.10.1973  
**Operating System:** TRANS POOL  
**Intended Use:** PASSENGERS  
**Remarks:** 1ST CL TWINETTE 'MARLA CAR'  
**BSG Code:** PSTT

### Capacity of 18 sleeping

Return to Service Date:	05.12.1992
Last Triple Valve:	29.07.1988
Last Single Car Test:	29.07.1988
Last Lift:	03.04.1992

- 17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. (05s82)'.
- 27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 04.06.1984** Alteration complete 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.
- 10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 15.08.1989** Repair 'WHEEL SET'.

- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 23.07.1991** Repair 'WHEEL SET'.
- 05.12.1992** Repair 'WHEEL SET'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FROM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## ARL 310

Details: passenger car 'ARL 310 K' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$186700

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 26.10.1973

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE

**BSG Code:** PSPT

Capacity of 18 sleeping

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Return to Service Date:	01.07.1992
Last Lift:	26.11.1981

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**17.02.1982** Alteration 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. (05s82)'.

**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**04.06.1984** Alteration complete 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.

**10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**22.05.1987** Alteration complete 'REPLACE EXISTING SHOWER ROSE WITH 'CONSERVA' LOW PRESSURE SHOWER ROSE NO. 56/203 TO ALL PASSENGER CARS WHICH ARE FITTED WITH SHOWER COMPART- MENTS. (RS4201)'.

**20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**10.12.1987** Alteration 'REMOVE 'CONSERVA' SHOWER ROSE, FIT IN-LINE RESTICTOR AND REFIT ORIGINAL SHOWER ROSE. THIS ALTERATION SUPERCEDES ALTERATION RS4201. ALL PASSENGER CARS WITH SHOWER COMPARTMENTS (EXCEPT I.P. CARS). (RS4247)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM

COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 09.08.1989** Repair 'WHEEL SET'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 08.05.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 01.07.1992** Repair 'WHEEL SET'.
- 24.02.1993** Alteration 'REMOVE STERILISING LAMP FROM THE SHOWER/TOILET CUBICLE ADJACENT THE CONDUCTORS COMPARTMENT OF THE 'ARL' AND 'ARM' PASSENGER CARS. DISCONNECT WIRING MARKED 'SZL' AND 'SZLN' FROM THE PO1 CIRCUIT IN EACH CAR AND MAKE SAFE. REINSTATE CUBICLE WALL WITH A STAINLESS STEEL COVERPLATE. ARM 288, ARL 289,291,293,308,310,324,326,920-923,925,990,992. (RS4775)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11.

(RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## **ARL 324**

Details: passenger car 'ARL 324 X' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$186700

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 06.05.1975

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE

**BSG Code:** PSTT

## Capacity of 18 sleeping

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Return to Service Date:	13.10.1992
Last Single Car Test:	29.07.1988
Last Lift:	30.06.1988

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**17.02.1982** Alteration 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. (05s82)'.

**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**04.06.1984** Alteration 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.

**10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.



- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 11.07.1989** Repair 'WHEEL SET'.
- 31.10.1989** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 30.11.1989** Alteration complete 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 24.08.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 13.10.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 13.10.1992** Repair 'BOGIE BRAKE BLOCKS X92'.
- 13.10.1992** Repair 'BOGIE BRAKE BLOCKS X92'.
- 13.10.1992** Repair 'BOGIE CLEARANCE'.
- 13.10.1992** Repair 'BOGIE COMPLETE'.
- 13.10.1992** Repair 'END COMPLETE'.
- 13.10.1992** Repair 'FLOOR SHEETING'.
- 13.10.1992** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 13.10.1992** Repair 'INTERIOR FURBISHINGS (PASS.)'.
- 13.10.1992** Repair 'KITCHEN APPLIANCES (PASS.)'.
- 13.10.1992** Repair 'WHEEL SET'.
- 24.02.1993** Alteration 'REMOVE STERILISING LAMP FROM THE SHOWER/TOILET CUBICLE ADJACENT THE CONDUCTORS COMPARTMENT OF THE 'ARL' AND

'ARM' PASSENGER CARS. DISCONNECT WIRING MARKED 'SZL' AND 'SZLN' FROM THE PO1 CIRCUIT IN EACH CAR AND MAKE SAFE. REINSTATE CUBICLE WALL WITH A STAINLESS STEEL COVERPLATE. ARM 288, ARL 289,291,293,308,310,324,326,920-923,925,990,992. (RS4775)'.

**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

**29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.

**03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FROM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## ARL 326

Details: passenger car 'ARL 326 D' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$186700

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 15.07.1975

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE

**BSG Code:** PSPT

## Capacity of 18 sleeping

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Return to Service Date:	05.02.1991
Last Triple Valve:	02.03.1992
Last Lift:	14.11.1981

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- 17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. (05s82)'.
- 27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 04.06.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. (C2069)'.
- 10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 22.05.1987** Alteration complete 'REPLACE EXISTING SHOWER ROSE WITH 'CONSERVA' LOW PRESSURE SHOWER ROSE NO. 56/203 TO ALL PASSENGER CARS WHICH ARE FITTED WITH SHOWER COMPART- MENTS. (RS4201)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 10.12.1987** Alteration 'REMOVE 'CONSERVA' SHOWER ROSE, FIT IN-LINE RESTICTOR AND REFIT ORIGINAL SHOWER ROSE. THIS ALTERATION SUPERCEDES ALTERATION RS4201. ALL PASSENGER CARS WITH SHOWER COMPARTMENTS (EXCEPT I.P. CARS). (RS4247)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 07.06.1990** Repair 'WHEEL SET'.

- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 05.02.1991** Repair 'CONCERTINA (PASS.)'.
- 05.02.1991** Repair 'KITCHEN APPLIANCES (PASS.)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 05.02.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 05.02.1992** Repair 'BOGIE CLEARANCE'.
- 05.02.1992** Repair 'BOGIE COMPLETE'.
- 05.02.1992** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 05.02.1992** Repair 'COUPLER KNUCKLE'.
- 05.02.1992** Repair 'COUPLER KNUCKLE PIN'.
- 05.02.1992** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 05.02.1992** Repair 'END COMPLETE'.
- 05.02.1992** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 05.02.1992** Repair 'YOKE PIN'.
- 24.02.1993** Alteration 'REMOVE STERILISING LAMP FROM THE SHOWER/TOILET CUBICLE ADJACENT THE CONDUCTORS COMPARTMENT OF THE 'ARL' AND 'ARM' PASSENGER CARS. DISCONNECT WIRING MARKED 'SZL' AND 'SZLN' FROM THE PO1 CIRCUIT IN EACH CAR AND MAKE SAFE. REINSTATE CUBICLE WALL WITH A STAINLESS STEEL COVERPLATE. ARM 288, ARL 289,291,293,308,310,324,326,920-923,925,990,992. (RS4775)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**ARL 920**

Details: passenger car 'ARL 920 Y' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$197400

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 19.11.1974

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE;I.P.CARS

**BSG Code:** PSPT

Capacity of 18 sleeping

Return to Service Date:	15.05.1990
Last Triple Valve:	27.03.1990
Last Lift:	21.01.1981

**05.12.1979** Alteration complete 'MODIFICATION OF COLD WATER ALCOVE DOOR. DWG. 3C 11A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0779)'.

**10.12.1979** Alteration 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.

**10.12.1979** Alteration complete 'ALTERATION TO WARDROBE. DWG 2C 106A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP1179)'.

**10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.

**09.01.1980** Alteration 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.

**09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0280)'.

**12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.

- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0482)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO

EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM  
COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL  
PASSENGER CARS. (RS4270)'.

- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME  
BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG,  
BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL  
STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 14.07.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 14.07.1989** Repair 'BOGIE CLEARANCE'.
- 14.07.1989** Repair 'BOGIE WEAR PLATES'.
- 14.07.1989** Repair 'BOGIE WEAR PLATES'.
- 14.07.1989** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 14.07.1989** Repair 'END COMPLETE'.
- 14.07.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 14.07.1989** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE  
OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT  
DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE  
TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 19.03.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 19.03.1990** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 19.03.1990** Repair 'BOGIE BEARERS'.
- 19.03.1990** Repair 'BOGIE CLEARANCE'.
- 19.03.1990** Repair 'BOGIE COMPLETE'.
- 19.03.1990** Repair 'BRIDGE PLATE ASSEMBLY'.
- 19.03.1990** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 19.03.1990** Repair 'COUPLER COMPLETE'.
- 19.03.1990** Repair 'COUPLER KNUCKLE'.
- 19.03.1990** Repair 'COUPLER KNUCKLE PIN'.
- 19.03.1990** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 19.03.1990** Repair 'END COMPLETE'.
- 19.03.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 19.03.1990** Repair 'VESTIBULE (PASS.)'.
- 19.03.1990** Repair 'WEAR PLATES & SADDLES'.
- 19.03.1990** Repair 'YOKE COMPLETE'.
- 15.05.1990** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 15.05.1990** Repair 'AIR CONDITIONER CONDENSOR (PASS.)'.
- 15.05.1990** Repair 'AIR CONDITIONER MOTOR (PASS.)'.
- 15.05.1990** Repair 'BATTERY BOX (PASS.)'.
- 15.05.1990** Repair 'BATTERY CHARGER (PASS.)'.
- 15.05.1990** Repair 'ELECTRICAL CONTROL PANEL (PASS.)'.
- 15.05.1990** Repair 'EVAPORATOR UNIT (PASS.)'.
- 15.05.1990** Repair 'EXHAUST FANS (PASS.)'.
- 15.05.1990** Repair 'HOT WATER TANK (PASS.)'.
- 15.05.1990** Repair 'LIGHTING (INTERIOR)'.
- 15.05.1990** Repair 'WATER COOLER (PASS.)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS.  
ALL PASSENGER CARS. (RS4518)'.
- 24.02.1993** Alteration 'REMOVE STERILISING LAMP FROM THE SHOWER/TOILET

CUBICLE ADJACENT THE CONDUCTORS COMPARTMENT OF THE 'ARL' AND 'ARM' PASSENGER CARS. DISCONNECT WIRING MARKED 'SZL' AND 'SZLN' FROM THE PO1 CIRCUIT IN EACH CAR AND MAKE SAFE. REINSTATE CUBICLE WALL WITH A STAINLESS STEEL COVERPLATE. ARM 288, ARL 289,291,293,308,310,324,326,920-923,925,990,992. (RS4775)'.

**14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.

**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

**29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.

**03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## ARL 921

Details: passenger car 'ARL 921 A' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$197400

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 18.12.1974

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE;I.P.CARS

**BSG Code:** PSPT

Capacity of 18 sleeping



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Return to Service Date:	13.05.1993
Last Triple Valve:	26.05.1993
Last Lift:	20.07.1981

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- 05.12.1979** Alteration complete 'MODIFICATION OF COLD WATER ALCOVE DOOR. DWG. 3C 11A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0779)'.
- 10.12.1979** Alteration 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 10.12.1979** Alteration complete 'ALTERATION TO WARDROBE. DWG 2C 106A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP1179)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0482)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG

- 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911.  
(IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 13.08.1991** Repair 'WHEEL SET'.
- 23.10.1992** Alteration 'ASHTRAYS TO REMOVE A/C NON SMOKING CAR. (000011)'.
- 24.02.1993** Alteration complete 'REMOVE STERILISING LAMP FROM THE SHOWER/TOILET CUBICLE ADJACENT THE CONDUCTORS COMPARTMENT OF THE 'ARL' AND 'ARM' PASSENGER CARS. DISCONNECT WIRING MARKED 'SZL' AND 'SZLN' FROM THE PO1 CIRCUIT IN EACH CAR AND MAKE SAFE. REINSTATE CUBICLE WALL WITH A STAINLESS STEEL COVERPLATE. ARM 288, ARL 289,291,293,308,310,324,326,920-923,925,990,992. (RS4775)'.
- 13.05.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.

- 13.05.1993** Repair 'BOGIE CLEARANCE'.
- 13.05.1993** Repair 'BOGIE COMPLETE'.
- 13.05.1993** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 13.05.1993** Repair 'COUPLER KNUCKLE'.
- 13.05.1993** Repair 'COUPLER KNUCKLE PIN'.
- 13.05.1993** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 13.05.1993** Repair 'ELECTRICAL CABLING'.
- 13.05.1993** Repair 'END COMPLETE'.
- 13.05.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 13.05.1993** Repair 'LIGHTING (INTERIOR)'.
- 13.05.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 13.05.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 13.05.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 13.05.1993** Repair 'VESTIBULE (PASS.)'.
- 13.05.1993** Repair 'WEAR PLATES & SADDLES'.
- 13.05.1993** Repair 'WHEEL SET'.
- 13.05.1993** Repair 'YOKE PIN'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## ARL 922

Details: passenger car 'ARL 922 J' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$197400

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 24.12.1974

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE;I.P.CARS

**BSG Code:** PSPT

Capacity of 18 sleeping

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Return to Service Date:	07.05.1992
Last Lift:	09.03.1981

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- 05.12.1979** Alteration complete 'MODIFICATION OF COLD WATER ALCOVE DOOR. DWG. 3C 11A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0779)'.
- 10.12.1979** Alteration complete 'ALTERATION TO WARDROBE. DWG 2C 106A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP1179)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961,

962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914  
915,916,917,918,919,999. (IP0481)'.

**17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH  
FLAP ASSEMBLY UPPER AND LOWER BERTHS. ARL 920, 921, 922, 923, 925, 947,  
961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0482)'.

**27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC  
936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921,  
922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912,  
914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER  
906,909,910,911. (IP0782)'.

**15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS.  
DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL  
920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG  
969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911.  
(IP0184)'.

**31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON  
WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC  
12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF  
APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS.  
CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**05.02.1987** Alteration 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF  
STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 &  
3C-111 (IP0287)'.

**05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO  
INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.

**20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX.  
APPLICABLE DRAWING 2C-190 (IP0387)'.

**11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER  
ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED  
BY IP1087; (IP0687)'.

**26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP  
PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.

**22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP  
PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL  
NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS.  
(IP0987)'.

**09.12.1987** Alteration complete 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD  
6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE.  
(IP1087)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO  
EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM  
COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL  
PASSENGER CARS. (RS4270)'.

**01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH  
CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER  
COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL  
STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

**30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE

- OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 18.09.1990** Repair 'WHEEL SET'.
- 07.05.1992** Repair 'WHEEL SET'.
- 24.02.1993** Alteration 'REMOVE STERILISING LAMP FROM THE SHOWER/TOILET CUBICLE ADJACENT THE CONDUCTORS COMPARTMENT OF THE 'ARL' AND 'ARM' PASSENGER CARS. DISCONNECT WIRING MARKED 'SZL' AND 'SZLN' FROM THE PO1 CIRCUIT IN EACH CAR AND MAKE SAFE. REINSTATE CUBICLE WALL WITH A STAINLESS STEEL COVERPLATE. ARM 288, ARL 289,291,293,308,310,324,326,920-923,925,990,992. (RS4775)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## **ARL 923**

Details: passenger car 'ARL 923 S' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$197400

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 06.01.1975**Operating System:** IP POOL**Intended Use:** PASSENGERS**Remarks:** 1ST CLASS TWINETTE;I.P.CARS**BSG Code:** PSPT

Capacity of 18 sleeping

Corporate ID flag:	Y
Return to Service Date:	27.02.1991
Last Triple Valve:	27.09.1989
Last Lift:	02.04.1980

**05.12.1979** Alteration complete 'MODIFICATION OF COLD WATER ALCOVE DOOR. DWG. 3C 11A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0779)'.

**10.12.1979** Alteration 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.

**10.12.1979** Alteration complete 'ALTERATION TO WARDROBE. DWG 2C 106A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP1179)'.

**10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP1279)'.

**09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.

**09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.

**12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.

**20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.

**30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.

- 17.02.1982** Alteration 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0482)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 09.08.1989** Repair 'WHEEL SET'.
- 22.09.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 22.09.1989** Repair 'BOGIE CLEARANCE'.
- 22.09.1989** Repair 'BOGIE COMPLETE'.
- 22.09.1989** Repair 'BRANCH PIPE'.



- 22.09.1989** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 22.09.1989** Repair 'CONCERTINA (PASS.)'.
- 22.09.1989** Repair 'CONCERTINA (PASS.)'.
- 22.09.1989** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 22.09.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 22.09.1989** Repair 'VESTIBULE (PASS.)'.
- 22.09.1989** Repair 'VESTIBULE (PASS.)'.
- 21.11.1989** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 21.11.1989** Repair 'AIR CONDITIONER CONDENSOR (PASS.)'.
- 21.11.1989** Repair 'AIR CONDITIONER MOTOR (PASS.)'.
- 21.11.1989** Repair 'BATTERY BOX (PASS.)'.
- 21.11.1989** Repair 'BATTERY CHARGER (PASS.)'.
- 21.11.1989** Repair 'ELECTRICAL CONTROL PANEL (PASS.)'.
- 21.11.1989** Repair 'EVAPORATOR UNIT (PASS.)'.
- 21.11.1989** Repair 'HOT WATER TANK (PASS.)'.
- 21.11.1989** Repair 'LIGHTING (INTERIOR)'.
- 21.11.1989** Repair 'WATER COOLER (PASS.)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 20.11.1990** Repair 'WHEEL SET'.
- 27.02.1991** Repair 'WHEEL SET'.
- 24.02.1993** Alteration 'REMOVE STERILISING LAMP FROM THE SHOWER/TOILET CUBICLE ADJACENT THE CONDUCTORS COMPARTMENT OF THE 'ARL' AND 'ARM' PASSENGER CARS. DISCONNECT WIRING MARKED 'SZL' AND 'SZLN' FROM THE PO1 CIRCUIT IN EACH CAR AND MAKE SAFE. REINSTATE CUBICLE WALL WITH A STAINLESS STEEL COVERPLATE. ARM 288, ARL 289,291,293,308,310,324,326,920-923,925,990,992. (RS4775)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**ARL 925**

Details: passenger car 'ARL 925 N' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$197400

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 19.06.1975

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE;I.P.CARS

**BSG Code:** PSPT

Capacity of 18 sleeping

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Return to Service Date:	25.08.1989
Last Lift:	11.04.1987

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**05.12.1979** Alteration complete 'MODIFICATION OF COLD WATER ALCOVE DOOR. DWG. 3C 11A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0779)'.

**10.12.1979** Alteration 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.

**10.12.1979** Alteration complete 'ALTERATION TO WARDROBE. DWG 2C 106A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP1179)'.

**10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.

**09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.

**09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0280)'.

- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0482)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL

- NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 25.08.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 25.08.1989** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 25.08.1989** Repair 'BOGIE CLEARANCE'.
- 25.08.1989** Repair 'BOGIE COMPLETE'.
- 25.08.1989** Repair 'BOGIE WEAR PLATES'.
- 25.08.1989** Repair 'CONCERTINA (PASS.)'.
- 25.08.1989** Repair 'CONCERTINA (PASS.)'.
- 25.08.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 25.08.1989** Repair 'VESTIBULE (PASS.)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 24.02.1993** Alteration 'REMOVE STERILISING LAMP FROM THE SHOWER/TOILET CUBICLE ADJACENT THE CONDUCTORS COMPARTMENT OF THE 'ARL' AND 'ARM' PASSENGER CARS. DISCONNECT WIRING MARKED 'SZL' AND 'SZLN' FROM THE PO1 CIRCUIT IN EACH CAR AND MAKE SAFE. REINSTATE CUBICLE WALL WITH A STAINLESS STEEL COVERPLATE. ARM 288, ARL 289,291,293,308,310,324,326,920-923,925,990,992. (RS4775)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCONE' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**ARL 947**

Details: passenger car 'ARL 947 B' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$197400

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 24.09.1968

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE;I.P.CARS

**BSG Code:** PSPT

Capacity of 18 sleeping

Return to Service Date:	23.09.1992
Last Lift:	24.02.1981

- 05.12.1979** Alteration complete 'MODIFICATION OF COLD WATER ALCOVE DOOR. DWG. 3C 11A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0779)'.
- 10.12.1979** Alteration 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 10.12.1979** Alteration complete 'ALTERATION TO WARDROBE. DWG 2C 106A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP1179)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.

- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0482)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP

PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.

- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 21.06.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 21.06.1990** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 21.06.1990** Repair 'BOGIE BEARERS'.
- 21.06.1990** Repair 'BOGIE CLEARANCE'.
- 21.06.1990** Repair 'BOGIE COMPLETE'.
- 21.06.1990** Repair 'BRIDGE PLATE ASSEMBLY'.
- 21.06.1990** Repair 'CONCERTINA (PASS.)'.
- 21.06.1990** Repair 'CONCERTINA (PASS.)'.
- 21.06.1990** Repair 'COUPLER KNUCKLE'.
- 21.06.1990** Repair 'COUPLER KNUCKLE PIN'.
- 21.06.1990** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 21.06.1990** Repair 'END COMPLETE'.
- 21.06.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 21.06.1990** Repair 'VESTIBULE (PASS.)'.
- 21.06.1990** Repair 'VESTIBULE (PASS.)'.
- 21.06.1990** Repair 'WEAR PLATES & SADDLES'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 23.09.1992** Repair 'WHEEL SET'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION

SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## **ARL 961**

Details: passenger car 'ARL 961 J' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$197400

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 05.02.1970

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE;I.P.CARS

**BSG Code:** PSPT

Capacity of 18 sleeping

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Return to Service Date:	22.12.1994
Last Triple Valve:	21.02.1992
Last Lift:	18.08.1981

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**05.12.1979** Alteration complete 'MODIFICATION OF COLD WATER ALCOVE DOOR. DWG. 3C 11A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0779)'.

**10.12.1979** Alteration 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.

**10.12.1979** Alteration complete 'ALTERATION TO WARDROBE. DWG 2C 106A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP1179)'.



- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP1279)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0482)'.
- 27.08.1982** Alteration complete 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.

- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration complete 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration complete 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 30.11.1989** Alteration complete 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 05.06.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration complete 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 27.06.1991** Repair 'WHEEL SET'.
- 28.10.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 28.10.1991** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 28.10.1991** Repair 'BOGIE CLEARANCE'.
- 28.10.1991** Repair 'BOGIE COMPLETE'.
- 28.10.1991** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 28.10.1991** Repair 'COUPLER COMPLETE'.
- 28.10.1991** Repair 'COUPLER KNUCKLE'.
- 28.10.1991** Repair 'COUPLER KNUCKLE PIN'.
- 28.10.1991** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 28.10.1991** Repair 'END COMPLETE'.
- 28.10.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 28.10.1991** Repair 'VESTIBULE (PASS.)'.
- 28.10.1991** Repair 'VESTIBULE (PASS.)'.
- 28.10.1991** Repair 'WHEEL SET'.
- 28.10.1991** Repair 'YOKE COMPLETE'.
- 28.10.1991** Repair 'YOKE PIN'.
- 27.04.1992** Repair 'WHEEL SET'.

- 06.07.1992** Repair 'WHEEL SET'.
- 10.09.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 10.09.1992** Repair 'BOGIE CLEARANCE'.
- 10.09.1992** Repair 'BRANCH PIPE'.
- 10.09.1992** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 10.09.1992** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 25.09.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 25.09.1992** Repair 'BOGIE CLEARANCE'.
- 25.09.1992** Repair 'BOGIE SPRING'.
- 25.09.1992** Repair 'BOGIE SPRING'.
- 25.09.1992** Repair 'END COMPLETE'.
- 25.09.1992** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration complete 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration complete 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration complete 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration complete 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration complete 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.
- 22.12.1994** Repair 'A/C AIR FILTRATION'.
- 22.12.1994** Repair 'A/C PIPEWORK/ANNACONDAS'.
- 22.12.1994** Repair 'BOGIE BEARERS'.
- 22.12.1994** Repair 'BOGIE BRAKE RIGGING, LEVERS & RODS'.
- 22.12.1994** Repair 'BRAKE SPREADER & HANGERS'.
- 22.12.1994** Repair 'COLD WATER TANK (PASS.)'.
- 22.12.1994** Repair 'COLD WATER TANK (PASS.)'.
- 22.12.1994** Repair 'CONCERTINA (PASS.)'.
- 22.12.1994** Repair 'ELECTRICAL CABLING'.
- 22.12.1994** Repair 'END FRAME MEMBER'.
- 22.12.1994** Repair 'EVAPORATOR UNIT (PASS.)'.
- 22.12.1994** Repair 'FLOOR SHEETING'.
- 22.12.1994** Repair 'HOT WATER TANK (PASS.)'.
- 22.12.1994** Repair 'INTERIOR FURBISHINGS (PASS.)'.

**22.12.1994** Repair 'INTERIOR FURBISHINGS (PASS.)'.  
**22.12.1994** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.  
**22.12.1994** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.  
**22.12.1994** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.  
**22.12.1994** Repair 'REFRIG & AIR CON GAUGES'.  
**22.12.1994** Repair 'SAFETY EQUIPMENT (PASS)'.  
**22.12.1994** Repair 'TOILETS'.  
**22.12.1994** Repair 'WATER FILTERS'.  
**22.12.1994** Repair 'WATER SYSTEM'.

## **ARL 962**

Details: passenger car 'ARL 962 S' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$197400

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 02.02.1970

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE;I.P.CARS

**BSG Code:** PSPT

Capacity of 18 sleeping

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Return to Service Date:	14.07.1993
Last Brake Cylinder:	19.07.1993
Last Single Car Test:	19.07.1993
Last Lift:	03.12.1981

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**05.12.1979** Alteration complete 'MODIFICATION OF COLD WATER ALCOVE DOOR. DWG. 3C 11A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0779)'.

**10.12.1979** Alteration complete 'ALTERATION TO WARDROBE. DWG 2C 106A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP1179)'.

**10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.

**10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.

- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0482)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration complete 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE

- SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED.  
;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 14.12.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 14.12.1989** Repair 'BOGIE BEARERS'.
- 14.12.1989** Repair 'BOGIE CLEARANCE'.
- 14.12.1989** Repair 'BOGIE WEAR PLATES'.
- 14.12.1989** Repair 'BOGIE WEAR PLATES'.
- 14.12.1989** Repair 'BOGIE WEAR PLATES'.
- 14.12.1989** Repair 'BRANCH PIPE'.
- 14.12.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 19.02.1992** Repair 'WHEEL SET'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 14.07.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 14.07.1993** Repair 'OTHER BRAKE CYLINDER COMPLETE'.
- 14.07.1993** Repair 'TRAIN PIPE'.
- 14.07.1993** Repair 'VEHICLE STENCILS'.
- 14.07.1993** Repair 'WHEEL SET'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION

SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

### ARL 963

Details: passenger car 'ARL 963 E' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$197400

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 13.02.1970

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE;I.P.CARS

**BSG Code:** PSPT

Capacity of 18 sleeping

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Return to Service Date:	21.06.1989
Last Triple Valve:	04.07.1989
Last Brake Cylinder:	04.07.1989
Last Lift:	04.03.1980

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**05.12.1979** Alteration complete 'MODIFICATION OF COLD WATER ALCOVE DOOR. DWG. 3C 11A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0779)'.

**10.12.1979** Alteration complete 'ALTERATION TO WARDROBE. DWG 2C 106A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP1179)'.

**10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.

**10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925,

- 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0482)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX.



APPLICABLE DRAWING 2C-190 (IP0387)'.

- 11.06.1987** Alteration complete 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**ARL 990**

Details: passenger car 'ARL 990 B' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$197400

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 30.06.1972

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE;I.P.CARS

**BSG Code:** PSPT

Capacity of 18 sleeping

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Return to Service Date:	02.03.1992
Last Triple Valve:	14.12.1989
Last Lift:	11.12.1985

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- 05.12.1979** Alteration complete 'MODIFICATION OF COLD WATER ALCOVE DOOR. DWG. 3C 11A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0779)'.
- 10.12.1979** Alteration complete 'ALTERATION TO WARDROBE. DWG 2C 106A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP1179)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.

- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0482)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO

EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

**16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

**30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.

**06.12.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**06.12.1989** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.

**06.12.1989** Repair 'BOGIE BRAKE BLOCKS X92'.

**06.12.1989** Repair 'BOGIE BRAKE BLOCKS X92'.

**06.12.1989** Repair 'BOGIE COMPLETE'.

**06.12.1989** Repair 'BRIDGE PLATE ASSEMBLY'.

**06.12.1989** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.

**06.12.1989** Repair 'CONCERTINA (PASS.)'.

**06.12.1989** Repair 'DRAFTGEAR COMPLETE HEAVY'.

**06.12.1989** Repair 'END COMPLETE'.

**06.12.1989** Repair 'END HOSE'.

**06.12.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.

**06.12.1989** Repair 'OTHER SLACK ADJUSTER COMPLETE'.

**06.12.1989** Repair 'VESTIBULE (PASS.)'.

**06.12.1989** Repair 'VESTIBULE (PASS.)'.

**06.12.1989** Repair 'WEAR PLATES & SADDLES'.

**09.02.1990** Repair 'COMBOLETS (PASS.)'.

**09.02.1990** Repair 'FLOOR CARPET'.

**09.02.1990** Repair 'FLOOR SHEETING'.

**09.02.1990** Repair 'INTERIOR FURBISHINGS (PASS.)'.

**15.02.1990** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.

**15.02.1990** Repair 'AIR CONDITIONER CONDENSOR (PASS.)'.

**15.02.1990** Repair 'AIR CONDITIONER MOTOR (PASS.)'.

**15.02.1990** Repair 'BATTERY BOX (PASS.)'.

**15.02.1990** Repair 'BATTERY CHARGER (PASS.)'.

**15.02.1990** Repair 'ELECTRICAL CONTROL PANEL (PASS.)'.

**15.02.1990** Repair 'EVAPORATOR UNIT (PASS.)'.

**15.02.1990** Repair 'EXHAUST FANS (PASS.)'.

**15.02.1990** Repair 'HOT WATER TANK (PASS.)'.

**15.02.1990** Repair 'LIGHTING (INTERIOR)'.

**15.02.1990** Repair 'WATER COOLER (PASS.)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**02.03.1992** Repair 'WHEEL SET'.

**24.02.1993** Alteration 'REMOVE STERILISING LAMP FROM THE SHOWER/TOILET CUBICLE ADJACENT THE CONDUCTORS COMPARTMENT OF THE 'ARL' AND 'ARM' PASSENGER CARS. DISCONNECT WIRING MARKED 'SZL' AND 'SZLN'

FROM THE PO1 CIRCUIT IN EACH CAR AND MAKE SAFE. REINSTATE CUBICLE WALL WITH A STAINLESS STEEL COVERPLATE. ARM 288, ARL 289,291,293,308,310,324,326,920-923,925,990,992. (RS4775)'.

**14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.

**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

**29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.

**03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## ARL 992

Details: passenger car 'ARL 992 T' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$197400

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 69

**Date Built:** 30.08.1972

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE;I.P.CARS

**BSG Code:** PSPT

Capacity of 18 sleeping

Return to Service Date:	02.03.1992
Last Triple Valve:	21.05.1991
Last Lift:	15.05.1985

- 05.12.1979** Alteration complete 'MODIFICATION OF COLD WATER ALCOVE DOOR. DWG. 3C 11A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0779)'.
- 10.12.1979** Alteration 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 10.12.1979** Alteration complete 'ALTERATION TO WARDROBE. DWG 2C 106A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP1179)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP1279)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0482)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL

920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.

- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 22.03.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 22.03.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 06.02.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 06.02.1991** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 06.02.1991** Repair 'BOGIE CLEARANCE'.
- 06.02.1991** Repair 'BOGIE COMPLETE'.
- 06.02.1991** Repair 'BRIDGE PLATE ASSEMBLY'.
- 06.02.1991** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.

- 06.02.1991** Repair 'CONCERTINA (PASS.)'.
- 06.02.1991** Repair 'CONCERTINA (PASS.)'.
- 06.02.1991** Repair 'COUPLER KNUCKLE'.
- 06.02.1991** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 06.02.1991** Repair 'END COMPLETE'.
- 06.02.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 06.02.1991** Repair 'VESTIBULE (PASS.)'.
- 06.02.1991** Repair 'VESTIBULE (PASS.)'.
- 06.02.1991** Repair 'WHEEL SET'.
- 06.02.1991** Repair 'YOKE PIN'.
- 06.02.1991** Repair 'YOKE SUPPORT PLATE LINER'.
- 02.03.1992** Repair 'WHEEL SET'.
- 24.02.1993** Alteration 'REMOVE STERILISING LAMP FROM THE SHOWER/TOILET CUBICLE ADJACENT THE CONDUCTORS COMPARTMENT OF THE 'ARL' AND 'ARM' PASSENGER CARS. DISCONNECT WIRING MARKED 'SZL' AND 'SZLN' FROM THE PO1 CIRCUIT IN EACH CAR AND MAKE SAFE. REINSTATE CUBICLE WALL WITH A STAINLESS STEEL COVERPLATE. ARM 288, ARL 289,291,293,308,310,324,326,920-923,925,990,992. (RS4775)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## **2.31 Passengers Vehicle classification starting with 'ARM'**

### **ARM 288**

Details: passenger car 'ARM 288 T' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m



**Tare Weight:** 47.7tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$182200  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** NS 70  
**Date Built:** 26.09.1972  
**Operating System:** TRANS POOL  
**Intended Use:** PASSENGERS  
**Remarks:** 1ST CLASS TWINETTE 'FINKE RIVER CAR'  
**BSG Code:** PSTV

### Capacity of 16 sleeping

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Return to Service Date:	29.11.1990
Last Triple Valve:	10.04.1991
Last Single Car Test:	29.07.1988
Last Lift:	07.08.1981

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- 17.02.1982** Alteration 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. (05s82)'.
- 27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 04.06.1984** Alteration 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.
- 10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

- 26.07.1988** Alteration 'GHAN' PASSENGER CAR INTERIOR REFURBISHMENT. A. REFURBISH INTERIOR OF ALL CARS IN ACCORDANCE WITH DRAWINGS. B. RECLASSIFY CDF 265 TO AOB 265. (RS4304)'. New class: 'AOB'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 31.05.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 31.05.1990** Repair 'BOGIE BRAKE BLOCKS X92'.
- 31.05.1990** Repair 'BOGIE BRAKE BLOCKS X92'.
- 31.05.1990** Repair 'BOGIE CLEARANCE'.
- 31.05.1990** Repair 'BOGIE COMPLETE'.
- 31.05.1990** Repair 'END COMPLETE'.
- 31.05.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 31.05.1990** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 29.11.1990** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 29.11.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 24.02.1993** Alteration 'REMOVE STERILISING LAMP FROM THE SHOWER/TOILET CUBICLE ADJACENT THE CONDUCTORS COMPARTMENT OF THE 'ARL' AND 'ARM' PASSENGER CARS. DISCONNECT WIRING MARKED 'SZL' AND 'SZLN' FROM THE PO1 CIRCUIT IN EACH CAR AND MAKE SAFE. REINSTATE CUBICLE WALL WITH A STAINLESS STEEL COVERPLATE. ARM 288, ARL 289,291,293,308,310,324,326,920-923,925,990,992. (RS4775)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11.

(RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FROM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## ARM 951

Details: passenger car 'ARM 951 E' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$144690

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 70

**Date Built:** 28.05.1970

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE;I.P.CARS

**BSG Code:** PSPV

Capacity of 16 sleeping

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Return to Service Date:	31.05.1991
Last Triple Valve:	19.01.1991
Last Brake Cylinder:	31.05.1991
Last Single Car Test:	12.04.1991
Last Lift:	28.03.1985

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**05.12.1979** Alteration complete 'MODIFICATION OF COLD WATER ALCOVE DOOR. DWG. 3C 11A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0779)'.

**10.12.1979** Alteration complete 'ALTERATION TO WARDROBE. DWG 2C 106A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP1179)'.

**10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.

- 10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986, ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992, ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0482)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO

- INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 19.01.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 19.01.1991** Repair 'BOGIE CLEARANCE'.
- 19.01.1991** Repair 'BOGIE COMPLETE'.
- 19.01.1991** Repair 'BRIDGE PLATE ASSEMBLY'.
- 19.01.1991** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 19.01.1991** Repair 'CONCERTINA (PASS.)'.
- 19.01.1991** Repair 'CONCERTINA (PASS.)'.
- 19.01.1991** Repair 'COUPLER COMPLETE'.
- 19.01.1991** Repair 'COUPLER INTERNAL LOCKING PARTS'.
- 19.01.1991** Repair 'COUPLER KNUCKLE'.
- 19.01.1991** Repair 'COUPLER KNUCKLE PIN'.
- 19.01.1991** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 19.01.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 19.01.1991** Repair 'VESTIBULE (PASS.)'.
- 19.01.1991** Repair 'VESTIBULE (PASS.)'.
- 19.01.1991** Repair 'WEAR PLATES & SADDLES'.
- 19.01.1991** Repair 'WHEEL SET'.
- 19.01.1991** Repair 'YOKE COMPLETE'.
- 15.02.1991** Alteration 'FIT CONCERTINA SUPPORT RODS TO BOTH ENDS OF STAINLESS STEEL SLEEPING CAR ARM-951E. (RS4572)'.
- 31.05.1991** Repair 'OTHER BRAKE CYLINDER COMPLETE'.

- 31.05.1991** Repair 'VEHICLE SCHEDULED LIFT AND DATE CHANGE'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## **ARM 952**

Details: passenger car 'ARM 952 N' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$144690

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 70

**Date Built:** 10.09.1970

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE;I.P.CARS

**BSG Code:** PSPV

Capacity of 16 sleeping

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Return to Service Date:	20.12.1991
Last Triple Valve:	21.02.1992
Last Lift:	12.06.1979

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- 05.12.1979** Alteration complete 'MODIFICATION OF COLD WATER ALCOVE DOOR. DWG. 3C 11A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0779)'.
- 10.12.1979** Alteration complete 'ALTERATION TO WARDROBE. DWG 2C 106A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP1179)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0482)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER

- TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 18.06.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 20.12.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 20.12.1991** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 20.12.1991** Repair 'BOGIE CLEARANCE'.
- 20.12.1991** Repair 'BOGIE COMPLETE'.
- 20.12.1991** Repair 'BRIDGE PLATE ASSEMBLY'.
- 20.12.1991** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 20.12.1991** Repair 'CONCERTINA (PASS.)'.
- 20.12.1991** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 20.12.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 20.12.1991** Repair 'VESTIBULE (PASS.)'.
- 20.12.1991** Repair 'VESTIBULE (PASS.)'.



- 20.12.1991** Repair 'WHEEL SET'.
- 20.12.1991** Repair 'YOKE PIN'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

### ARM 953

Details: passenger car 'ARM 953 W' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$144690

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 70

**Date Built:** 16.01.1969

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE;I.P.CARS

**BSG Code:** PSPV

Capacity of 16 sleeping

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Return to Service Date:	10.08.1993
Due Triple Valve:	17.07.1997
Last Triple Valve:	24.02.1992
Last Lift:	17.07.1987

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- 05.12.1979** Alteration complete 'MODIFICATION OF COLD WATER ALCOVE DOOR. DWG. 3C 11A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0779)'.
- 10.12.1979** Alteration complete 'ALTERATION TO WARDROBE. DWG 2C 106A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP1179)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 09.01.1980** Alteration 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDE 924 928,929,966, DE 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0482)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDE 924,928,929,966, DE 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 04.06.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS.

(C2069)'.

- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 13.11.1990** Repair 'WHEEL SET'.
- 25.02.1991** Repair 'WHEEL SET'.
- 16.05.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 16.05.1991** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 16.05.1991** Repair 'BOGIE CLEARANCE'.
- 16.05.1991** Repair 'BOGIE COMPLETE'.
- 16.05.1991** Repair 'BRIDGE PLATE ASSEMBLY'.
- 16.05.1991** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 16.05.1991** Repair 'CONCERTINA (PASS.)'.
- 16.05.1991** Repair 'CONCERTINA (PASS.)'.

- 16.05.1991** Repair 'COUPLER KNUCKLE'.
- 16.05.1991** Repair 'COUPLER KNUCKLE PIN'.
- 16.05.1991** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 16.05.1991** Repair 'END COMPLETE'.
- 16.05.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 16.05.1991** Repair 'WHEEL SET'.
- 16.05.1991** Repair 'YOKE COMPLETE'.
- 16.05.1991** Repair 'YOKE PIN'.
- 26.07.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 26.07.1991** Repair 'BOGIE CLEARANCE'.
- 26.07.1991** Repair 'BOGIE COMPLETE'.
- 26.07.1991** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 26.07.1991** Repair 'COUPLER KNUCKLE'.
- 26.07.1991** Repair 'COUPLER KNUCKLE PIN'.
- 26.07.1991** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 26.07.1991** Repair 'END COMPLETE'.
- 26.07.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 26.07.1991** Repair 'WHEEL SET'.
- 26.07.1991** Repair 'YOKE PIN'.
- 26.07.1991** Repair 'YOKE SUPPORT PLATE LINER'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 10.08.1993** Repair 'WHEEL SET'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## **ARM 954**

Details: passenger car 'ARM 954 X' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m**Tare Weight:** 47.7tonne**Current Gauge:** Standard**Gauge Restrictions:** S**Bogie Configuration:** 2X2**Original Cost:** \$144690**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate**Diagram Book Page No.:** NS 70**Date Built:** 04.02.1970**Operating System:** IP POOL**Intended Use:** PASSENGERS**Remarks:** 1ST CLASS TWINETTE;I.P.CARS**BSG Code:** PSPV

Capacity of 16 sleeping

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Return to Service Date:	07.10.1992
Last Triple Valve:	02.07.1990
Last Lift:	12.07.1985

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**05.12.1979** Alteration complete 'MODIFICATION OF COLD WATER ALCOVE DOOR. DWG. 3C 11A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0779)'.

**10.12.1979** Alteration complete 'ALTERATION TO WARDROBE. DWG 2C 106A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP1179)'.

**10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.

**10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.

**09.01.1980** Alteration 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.

**09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0280)'.

**12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.

**20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG

- 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.  
**30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.  
**17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0482)'.  
**27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.  
**15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.  
**31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.  
**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.  
**05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.  
**20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.  
**11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.  
**26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.  
**22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.  
**09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.  
**15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.  
**01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER

COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 26.06.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 26.06.1990** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 26.06.1990** Repair 'BOGIE BEARERS'.
- 26.06.1990** Repair 'BOGIE CLEARANCE'.
- 26.06.1990** Repair 'BOGIE COMPLETE'.
- 26.06.1990** Repair 'BRIDGE PLATE ASSEMBLY'.
- 26.06.1990** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 26.06.1990** Repair 'CONCERTINA (PASS.)'.
- 26.06.1990** Repair 'CONCERTINA (PASS.)'.
- 26.06.1990** Repair 'COUPLER COMPLETE'.
- 26.06.1990** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 26.06.1990** Repair 'END COMPLETE'.
- 26.06.1990** Repair 'VESTIBULE (PASS.)'.
- 26.06.1990** Repair 'VESTIBULE (PASS.)'.
- 26.06.1990** Repair 'YOKE COMPLETE'.
- 10.03.1992** Repair 'WHEEL SET'.
- 07.10.1992** Repair 'WHEEL SET'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**ARM 987**

Details: passenger car 'ARM 987 N' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$144690

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 70

**Date Built:** 08.09.1972

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** 1ST CLASS TWINETTE;I.P.CARS

**BSG Code:** PSPV

Capacity of 16 sleeping

Return to Service Date:	01.03.1993
Due Triple Valve:	11.08.1997
Last Triple Valve:	02.03.1993
Last Brake Cylinder:	18.10.1988
Last Lift:	29.08.1979

**05.12.1979** Alteration complete 'MODIFICATION OF COLD WATER ALCOVE DOOR. DWG. 3C 11A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0779)'.

**10.12.1979** Alteration complete 'ALTERATION TO WARDROBE. DWG 2C 106A. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP1179)'.

**10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.

**10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.

**09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.

**09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0280)'.

**12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961,



- 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 17.02.1982** Alteration complete 'REMOVAL OF TORSION SPRINGS FROM BERTH FLAP ASSEMBLY UPPER AND LOWER BERTHS. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987. (IP0482)'.
- 27.08.1982** Alteration complete 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration complete 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE.

- (IP1087)'.  
**15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.  
**01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.  
**16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.  
**31.10.1989** Repair 'WHEEL SET'.  
**30.11.1989** Alteration 'RELOCATE CEILING MOULD SCREW, COMPARTMENT SIDE OF CORRIDOR. SCREW BETWEEN INDICATOR LIGHT AND COMPARTMENT DOOR TO BE RELOCATED 25 MM CLOSER TO COMPARTMENT DOOR, DUE TO ELECTRICAL WIRING IN CORRIDOR PARTITION. ARL, ARM, ER (RS4461)'.  
**21.06.1990** Alteration complete 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.  
**15.11.1990** Repair 'WHEEL SET'.  
**15.11.1990** Repair 'WHEEL SET'.  
**01.05.1991** Repair 'AIR CONDITIONER CONDENSOR (PASS.)'.  
**01.05.1991** Repair 'AIR CONDITIONER MOTOR (PASS.)'.  
**01.05.1991** Repair 'EVAPORATOR UNIT (PASS.)'.  
**01.03.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.  
**01.03.1993** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.  
**01.03.1993** Repair 'BOGIE BEARERS'.  
**01.03.1993** Repair 'BOGIE CLEARANCE'.  
**01.03.1993** Repair 'BOGIE COMPLETE'.  
**01.03.1993** Repair 'BRIDGE PLATE ASSEMBLY'.  
**01.03.1993** Repair 'COLD WATER TANK (PASS.)'.  
**01.03.1993** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.  
**01.03.1993** Repair 'CONCERTINA (PASS.)'.  
**01.03.1993** Repair 'COUPLER KNUCKLE'.  
**01.03.1993** Repair 'COUPLER KNUCKLE PIN'.  
**01.03.1993** Repair 'DRAFTGEAR COMPLETE HEAVY'.  
**01.03.1993** Repair 'ELECTRICAL CABLING'.  
**01.03.1993** Repair 'END COMPLETE'.  
**01.03.1993** Repair 'EVAPORATOR UNIT (PASS.)'.  
**01.03.1993** Repair 'EVAPORATOR UNIT (PASS.)'.  
**01.03.1993** Repair 'FLOOR SHEETING'.  
**01.03.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.  
**01.03.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.  
**01.03.1993** Repair 'HOT WATER TANK (PASS.)'.  
**01.03.1993** Repair 'INTERIOR FURBISHINGS (PASS.)'.  
**01.03.1993** Repair 'INTERIOR FURBISHINGS (PASS.)'.  
**01.03.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.  
**01.03.1993** Repair 'VESTIBULE (PASS.)'.  
**01.03.1993** Repair 'WATER SYSTEM'.  
**01.03.1993** Repair 'WHEEL SET'.  
**01.03.1993** Repair 'YOKE CARRIER'.

- 01.03.1993** Repair 'YOKE PIN'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## 2.32 Passengers Vehicle classification starting with 'AZ'

### AZ 263

**10.06.1994** Reclassified from passenger car 'AZ 263 E' to passenger car 'ACZ 263 N'.

## 2.33 Passengers Vehicle classification starting with 'BA'

### BA 147

Details: passenger car 'BA 147 Y' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** P

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.2tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$1000000

**Date Built:** 01.01.1901

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS

**Remarks:** ECEONOMY CLASS COACH

**BSG Code:** PSTE

## Capacity of 44 passengers

- 04.07.1979** Alteration complete 'ALTERATION TO INDIVIDUAL STEPS IN ACCORDANCE TO DRAWING. (03s79)'.
- 08.11.1984** Alteration complete 'MANUFACTURE AND INSTALLATION OF COVERS FOR HOT WATER LINE IN SHOWER COMPARTMENTS ON COACH CARS BA 147, 148, 149, 150 & 151. (RS4010)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 22.05.1987** Alteration complete 'REPLACE EXISTING SHOWER ROSE WITH 'CONSERVA' LOW PRESSURE SHOWER ROSE NO. 56/203 TO ALL PASSENGER CARS WHICH ARE FITTED WITH SHOWER COMPART- MENTS. (RS4201)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 26.07.1988** Alteration "GHAN' PASSENGER CAR INTERIOR REFURBISHMENT. A. REFURBISH INTERIOR OF ALL CARS IN ACCORDANCE WITH DRAWINGS. B. RECLASSIFY CDF 265 TO AOB 265. (RS4304)'. New class: 'AOB'.
- 14.07.1989** Repair 'VEHICLE SIGNS AND BRACKETS'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 29.08.1990** Repair 'WHEEL SET'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 20.08.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 03.09.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 29.10.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 29.10.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 05.11.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 05.11.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 26.11.1993** Repair 'BOGIE COMPLETE'.
- 26.11.1993** Repair 'VEHICLE COMPLETE'.
- 10.12.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 10.12.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 14.01.1994** Repair 'BOGIE BRAKE BLOCKS X92'.
- 14.01.1994** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 21.01.1994** Repair 'BOGIE BRAKE BLOCKS X92'.
- 21.01.1994** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 04.02.1994** Repair 'COUPLER COMPLETE'.

**04.02.1994** Repair 'COUPLER SUPPORT PLATE AND LINER'.  
**04.02.1994** Repair 'WEAR PLATES & SADDLES'.  
**11.02.1994** Repair 'BOGIE BRAKE BLOCKS X92'.  
**11.02.1994** Repair 'OTHER SLACK ADJUSTER COMPLETE'.  
**29.03.1994** Repair 'AIR BRAKE SYSTEM COMPLETE'.  
**29.03.1994** Repair 'BOGIE COMPLETE'.  
**29.03.1994** Repair 'BRAKE LEVER'.  
**29.03.1994** Repair 'BRAKE PIN'.  
**29.03.1994** Repair 'BRAKE PULL ROD'.  
**03.01.1995** Repair 'VEHICLE SOLD'.

## BA 148

Details: passenger car 'BA 148 A' in AN 'Mainland Division'.

**Owner:** AN  
**Operator:** P  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 48.2tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1901  
**Operating System:** TRANS POOL  
**Intended Use:** PASSENGERS  
**Remarks:** ECONOMY CLASS COACH  
**BSG Code:** PSTE

Capacity of 44 passengers

**04.07.1979** Alteration complete 'ALTERATION TO INDIVIDUAL STEPS IN ACCORDANCE TO DRAWING. (03s79)'.  
**08.11.1984** Alteration complete 'MANUFACTURE AND INSTALLATION OF COVERS FOR HOT WATER LINE IN SHOWER COMPARTMENTS ON COACH CARS BA 147, 148, 149, 150 & 151. (RS4010)'.  
**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.  
**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.  
**22.05.1987** Alteration complete 'REPLACE EXISTING SHOWER ROSE WITH 'CONSERVA' LOW PRESSURE SHOWER ROSE NO. 56/203 TO ALL PASSENGER CARS WHICH ARE FITTED WITH SHOWER COMPART- MENTS. (RS4201)'.  
**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 01.08.1990** Repair 'WHEEL SET'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 08.04.1994** Repair 'BOGIE BRAKE BLOCKS X92'.
- 08.04.1994** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 03.01.1995** Repair 'VEHICLE SOLD'.

## BA 149

Details: passenger car 'BA 149 J' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** P

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.2tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1901

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS COACH

**BSG Code:** PSTE

Capacity of 44 passengers

- 04.07.1979** Alteration complete 'ALTERATION TO INDIVIDUAL STEPS IN ACCORDANCE TO DRAWING. (03s79)'.
- 08.11.1984** Alteration complete 'MANUFACTURE AND INSTALLATION OF COVERS FOR HOT WATER LINE IN SHOWER COMPARTMENTS ON COACH CARS BA 147, 148, 149, 150 & 151. (RS4010)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 26.07.1988** Alteration "GHAN' PASSENGER CAR INTERIOR REFURBISHMENT. A. REFURBISH INTERIOR OF ALL CARS IN ACCORDANCE WITH DRAWINGS. B. RECLASSIFY CDF 265 TO AOB 265. (RS4304)'. New class: 'AOB'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 03.07.1990** Repair 'WHEEL SET'.
- 10.01.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 10.01.1992** Repair 'BOGIE BRAKE BLOCKS X92'.
- 10.01.1992** Repair 'BOGIE COMPLETE'.
- 10.01.1992** Repair 'BRAKE SPREADER & HANGERS'.
- 10.01.1992** Repair 'END COMPLETE'.
- 10.01.1992** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 10.01.1992** Repair 'ISOLATING COCK'.
- 10.01.1992** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 10.01.1992** Repair 'WHEEL SET'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 27.07.1995** Repair 'VEHICLE CUT FOR SCRAP'.
- 27.07.1995** Repair 'VEHICLE SOLD'.

## BA 150

Details: passenger car 'BA 150 F' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.2tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$120730

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 51

**Date Built:** 15.10.1964

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS COACH

**BSG Code:** PSTE

Capacity of 44 passengers

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Return to Service Date:	17.09.1991
Last Lift:	21.06.1984

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- 04.07.1979** Alteration complete 'ALTERATION TO INDIVIDUAL STEPS IN ACCORDANCE TO DRAWING. (03s79)'.
- 08.11.1984** Alteration complete 'MANUFACTURE AND INSTALLATION OF COVERS FOR HOT WATER LINE IN SHOWER COMPARTMENTS ON COACH CARS BA 147, 148, 149, 150 & 151. (RS4010)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 26.07.1988** Alteration "GHAN' PASSENGER CAR INTERIOR REFURBISHMENT. A. REFURBISH INTERIOR OF ALL CARS IN ACCORDANCE WITH DRAWINGS. B. RECLASSIFY CDF 265 TO AOB 265. (RS4304)'. New class: 'AOB'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 23.08.1991** Repair 'BOGIE COMPLETE'.
- 23.08.1991** Repair 'VEHICLE COMPLETE'.
- 23.08.1991** Repair 'VEHICLE STENCILS'.
- 17.09.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 17.09.1991** Repair 'BOGIE CLEARANCE'.
- 17.09.1991** Repair 'BOGIE COMPLETE'.



**17.09.1991** Repair 'BRIDGE PLATE ASSEMBLY'.  
**17.09.1991** Repair 'CONCERTINA (PASS.)'.  
**17.09.1991** Repair 'CONCERTINA (PASS.)'.  
**17.09.1991** Repair 'COUPLER KNUCKLE'.  
**17.09.1991** Repair 'COUPLER KNUCKLE PIN'.  
**17.09.1991** Repair 'DRAFTGEAR COMPLETE HEAVY'.  
**17.09.1991** Repair 'END COMPLETE'.  
**17.09.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.  
**17.09.1991** Repair 'WHEEL SET'.  
**17.09.1991** Repair 'YOKE PIN'.  
**29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.

## BA 151

Details: passenger car 'BA 151 Y' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.2tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$120730

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 51

**Date Built:** 04.12.1964

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS COACH

**BSG Code:** PSTE

Capacity of 44 passengers

Return to Service Date:	21.01.1992
Last Lift:	08.09.1983

**04.07.1979** Alteration complete 'ALTERATION TO INDIVIDUAL STEPS IN ACCORDANCE TO DRAWING. (03s79)'.

**08.11.1984** Alteration complete 'MANUFACTURE AND INSTALLATION OF COVERS FOR HOT WATER LINE IN SHOWER COMPARTMENTS ON COACH CARS BA 147, 148, 149, 150 & 151. (RS4010)'.

**13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 22.05.1987** Alteration complete 'REPLACE EXISTING SHOWER ROSE WITH 'CONSERVA' LOW PRESSURE SHOWER ROSE NO. 56/203 TO ALL PASSENGER CARS WHICH ARE FITTED WITH SHOWER COMPART- MENTS. (RS4201)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 10.12.1987** Alteration 'REMOVE 'CONSERVA' SHOWER ROSE, FIT IN-LINE RESTICTOR AND REFIT ORIGINAL SHOWER ROSE. THIS ALTERATION SUPERCEDES ALTERATION RS4201. ALL PASSENGER CARS WITH SHOWER COMPARTMENTS (EXCEPT I.P. CARS). (RS4247)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 26.07.1988** Alteration "GHAN' PASSENGER CAR INTERIOR REFURBISHMENT. A. REFURBISH INTERIOR OF ALL CARS IN ACCORDANCE WITH DRAWINGS. B. RECLASSIFY CDF 265 TO AOB 265. (RS4304)'. New class: 'AOB'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 12.09.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 21.01.1992** Repair 'WHEEL SET'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.

## **2.34 Passengers Vehicle classification starting with 'BAM'**

### **BAM 1741**

Details: passenger car 'BAM 1741 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** D  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1901  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSC

Capacity of 48 passengers

#### **BAM 1743**

Details: passenger car 'BAM 1743 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** D  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1901  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSC

Capacity of 48 passengers

#### **BAM 1745**

Details: passenger car 'BAM 1745 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** D  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1901  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS

**BSG Code:** PSSC

Capacity of 48 passengers

**BAM 1748**

Details: passenger car 'BAM 1748 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** D

**Length Over Headstocks:** 20.6m

**Tare Weight:** 40tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1901

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**BSG Code:** PSSC

Capacity of 48 passengers

**BAM 2189**

Details: passenger car 'BAM 2189 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** D

**Length Over Headstocks:** 20.6m

**Tare Weight:** 40tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1901

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**BSG Code:** PSSC

Capacity of 48 passengers

## **2.35 Passengers Vehicle classification starting with 'BB'**

**BB 98**

**21.12.1989** Reclassified from passenger car 'BB 98 M' to passenger car 'ECA 98 U'.

## 2.36 Passengers Vehicle classification starting with 'BBA'

### BBA 4

Details: passenger car 'BBA 4 W' in AN 'Tasmania Division'.

**Owner:** DON RIVER

**Operator:** C

**Length Over Headstocks:** 19.3m

**Tare Weight:** 22.8tonne

**Current Gauge:** Narrow

**Gauge Restrictions:** N

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1922

**Operating System:** DON RIVER RAILWAY

**Intended Use:** PASSENGERS

**Remarks:** VAN DIEMAN LIGHT RAILWAY

**BSG Code:** PTSZ

Capacity of 100 passengers

## 2.37 Passengers Vehicle classification starting with 'BBL'

### BBL 11

Details: passenger car 'BBL 11 N' in AN 'Tasmania Division'.

**Owner:** DON RIVER

**Operator:** C

**Length Over Headstocks:** 19.3m

**Tare Weight:** 29tonne

**Current Gauge:** Narrow

**Gauge Restrictions:** N

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1940

**Operating System:** DON RIVER RAILWAY

**Intended Use:** PASSENGERS

**Remarks:** VAN DIEMAN LIGHT RAILWAY

**BSG Code:** PTSZ

Capacity of 100 passengers

### BBL 12

Details: passenger car 'BBL 12 W' in AN 'Tasmania Division'.

**Owner:** DON RIVER

**Operator:** C  
**Length Over Headstocks:** 19.3m  
**Tare Weight:** 29tonne  
**Current Gauge:** Narrow  
**Gauge Restrictions:** N  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1937  
**Operating System:** DON RIVER RAILWAY  
**Intended Use:** PASSENGERS  
**Remarks:** VAN DIEMAN LIGHT RAILWAY  
**BSG Code:** PTSZ

Capacity of 100 passengers

## 2.38 Passengers Vehicle classification starting with 'BC'

### BC 329

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**25.05.1991** Repair 'VEHICLE RECOMMENDED CONDEMN'.  
**23.10.1992** Repair 'VEHICLE SOLD'.

### BC 330

Details: passenger car 'BC 330 H' in AN 'Mainland Division'.

**Owner:** AN  
**Operator:** D  
**Length Over Headstocks:** 19.8m  
**Tare Weight:** 38tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$32240  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** NS 53  
**Date Built:** 14.04.1975  
**Operating System:** AN  
**Intended Use:** PASSENGERS  
**Remarks:** W/O 25.05.91;ECONOMY COACH.NON A/C  
**BSG Code:** DSDZ

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Fleet Grp Code:	AH
Return to Service Date:	25.05.1991
Last Lift:	14.07.1981

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Capacity of 36 passengers

**25.05.1991** Repair 'VEHICLE RECOMMENDED CONDEMN'.

## **2.39 Passengers Vehicle classification starting with 'BCS'**

### **BCS 2356**

Details: passenger car 'BCS 2356 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Length Over Headstocks:** 22.5m

**Tare Weight:** 41tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 31.10.1955

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGER

**BSG Code:** PSSSL

Capacity of 40 passengers

### **BCS 2357**

Details: passenger car 'BCS 2357 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** D

**Length Over Headstocks:** 22.5m

**Tare Weight:** 41tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 31.10.1955

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**BSG Code:** PSSSL

Capacity of 40 passengers

## **2.40 Passengers Vehicle classification starting with 'BD'**

### **BD 331**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**25.05.1991** Repair 'VEHICLE RECOMMENDED CONDEMN'.

**23.10.1992** Repair 'VEHICLE SOLD'.

**BD 332**

Details: passenger car 'BD 332 E' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D

**Length Over Headstocks:** 19.8m

**Tare Weight:** 38tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$32040

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 54

**Date Built:** 14.04.1975

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** W/O 25.05.91;ECONOMY COACH.NON A/C

**BSG Code:** DSDZ

Capacity of 56 passengers

Fleet Grp Code:	AH
Return to Service Date:	25.05.1991
Last Lift:	02.08.1982

**25.05.1991** Repair 'VEHICLE RECOMMENDED CONDEMN'.

**BD 333**

**10.11.1989** Repair 'WHEEL SET'.

**25.05.1991** Repair 'VEHICLE RECOMMENDED CONDEMN'.

**23.10.1992** Repair 'VEHICLE SOLD'.

**2.41 Passengers Vehicle classification starting with 'BDS'**

**BDS 2285**

Details: passenger car 'BDS 2285 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Length Over Headstocks:** 20.6m

**Tare Weight:** 45tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S



**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1949  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**BSG Code:** PSSC

Capacity of 48 passengers

## 2.42 Passengers Vehicle classification starting with 'BE'

### BE 16

Details: passenger car 'BE 16 F' in AN 'Mainland Division'.

**Owner:** A.R.H.S  
**Operator:** C  
**Length Over Headstocks:** 21.6m  
**Tare Weight:** 41tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1941  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**BSG Code:** PBSE

Capacity of 72 passengers

- 17.12.1986** Alteration 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

### BE 18

Details: passenger car 'BE 18 A' in AN 'Mainland Division'.

**Owner:** A.H.R.S  
**Operator:** C  
**Length Over Headstocks:** 21.6m

**Tare Weight:** 41tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1940  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**BSG Code:** PBSE

Capacity of 72 passengers

- 17.12.1986** Alteration 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

## **BE 24**

Details: passenger car 'BE 24 S' in AN 'Mainland Division'.

**Owner:** A.H.R.S  
**Operator:** C  
**Length Over Headstocks:** 21.6m  
**Tare Weight:** 41tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Broad Gauge only  
**Date Built:** 01.01.1941  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**BSG Code:** PBSE

Capacity of 72 passengers

- 17.12.1986** Alteration 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

#### **BE 346**

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 15.09.1990** Repair 'VEHICLE RECOMMENDED CONDEMN'.
- 15.03.1991** Repair 'VEHICLE SOLD'.

#### **BE 351**

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 15.09.1990** Repair 'VEHICLE RECOMMENDED CONDEMN'.
- 15.03.1991** Repair 'VEHICLE SOLD'.

#### **BE 352**

- 17.12.1986** Alteration 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

#### **BE 358**

Details: passenger car 'BE 358 H' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D

**Length Over Headstocks:** 18.5m

**Tare Weight:** 36.3tonne

**Current Gauge:** Broad

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$16270

**Diagram Book Page No.:** NS 55

**Date Built:** 01.01.1941

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** EX 750 CLASS CARS.NON A/COND

**BSG Code:** DSDZ

### Capacity of 46 passengers

Fleet Grp Code:	AH
Return to Service Date:	19.11.1990
Last Single Car Test:	18.12.1989
Last Lift:	17.02.1983

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 28.08.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 28.08.1989** Repair 'BOGIE BRAKE BLOCKS X92'.
- 28.08.1989** Repair 'TRAIN PIPE (END)'.
- 18.12.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 18.12.1989** Repair 'TRAIN PIPE (END)'.
- 18.04.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 18.04.1990** Repair 'BOGIE BRAKE BLOCKS X92'.
- 18.04.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 19.11.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 19.11.1990** Repair 'BRAKE SPREADER & HANGERS'.

## 2.43 Passengers Vehicle classification starting with 'BF'

### BF 343

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 15.09.1990** Repair 'VEHICLE RECOMMENDED CONDEMN'.
- 15.03.1991** Repair 'VEHICLE SOLD'.

### BF 344

- 17.12.1986** Alteration 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**BF 345**

Details: passenger car 'BF 345 U' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D

**Length Over Headstocks:** 18.5m

**Tare Weight:** 36.6tonne

**Current Gauge:** Broad

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$16400

**Diagram Book Page No.:** NS 56

**Date Built:** 01.01.1942

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** W/O 21.11.92

**BSG Code:** DSDZ

Capacity of 38 passengers

Fleet Grp Code:	AH
Return to Service Date:	21.11.1992
Last Lift:	28.08.1985

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**07.11.1989** Repair 'WHEEL SET'.

**13.11.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**13.11.1989** Repair 'TRAIN PIPE (END)'.

**12.06.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**12.06.1990** Repair 'HANDRAILS END'.

**21.05.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**21.05.1991** Repair 'TRAIN PIPE'.

**21.11.1992** Repair 'VEHICLE RECOMMENDED CONDEMN'.

## 2.44 Passengers Vehicle classification starting with 'BG'

**BG 368**

Details: passenger car 'BG 368 T' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 46.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$112610

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 57

**Date Built:** 01.01.1963

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS

**Remarks:** EX BD CLASS;COACH ECON.CL

**BSG Code:** PSTE

Capacity of 68 passengers

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Return to Service Date:	21.05.1992
Due Triple Valve:	14.09.1989
Last Triple Valve:	29.05.1992
Last Brake Cylinder:	21.09.1988
Last Single Car Test:	21.09.1988
Last Lift:	30.06.1986

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**23.07.1982** Alteration complete 'CONVERSION OF (5) AVCY BRAKE VANS , (5) 'AG' AND (4) 'BG' COACH CARS FROM 1600MM TO 1435MM GUAGE BY MODIFYING BOGIES. (C1975)'.

**16.12.1982** Alteration complete 'MANUFACTURE AND INSTALLATION OF STORAGE CUPBOARD. (31s82)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**09.12.1987** Alteration complete 'RENUMBER THE SEATS OF 'AG' AND 'BG' COACH CLASS PASSENGER CARS. (RS4246)'.

**01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

**06.07.1988** Alteration complete 'MODIFY 4 'BG' CLASS SITTING CARS AS FOLLOWS: 1. FIT ADDITIONAL SHOWER COMPARTMENT. 2. RELOCATE STORAGE CUPBOARD. 3. REUPHOLSTER SEATS WITH WOOLLEN FABRIC. 4. LAY CARPET TILES TO FLOOR. 5. REMOVE 1 SEAT AND WINDOW. (RS4299)'.

**16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

**30.11.1989** Repair 'WHEEL SET'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

- 24.09.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration complete 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 05.11.1991** Alteration complete '1. PROVIDE SEATING FOR ADDITIONAL 10 PASSENGERS. 2. FIT GHAN EXTERIOR STRIPING AND LOGOS. 3. TRANSFER COMMUNICATIONS SYSTEM EX 'BA' CARS. BG 368-371 (RS4651)'.
- 21.05.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 21.05.1992** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 21.05.1992** Repair 'BOGIE BEARERS'.
- 21.05.1992** Repair 'BOGIE CLEARANCE'.
- 21.05.1992** Repair 'BOGIE COMPLETE'.
- 21.05.1992** Repair 'BRANCH PIPE'.
- 21.05.1992** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 21.05.1992** Repair 'COUPLER COMPLETE'.
- 21.05.1992** Repair 'COUPLER KNUCKLE'.
- 21.05.1992** Repair 'COUPLER KNUCKLE PIN'.
- 21.05.1992** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 21.05.1992** Repair 'FLOOR SHEETING'.
- 21.05.1992** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 21.05.1992** Repair 'SEAT (PASS.)'.
- 21.05.1992** Repair 'WEAR PLATES & SADDLES'.
- 21.05.1992** Repair 'WHEEL SET'.
- 21.05.1992** Repair 'YOKE COMPLETE'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FROM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## BG 369

- 29.06.1995** Reclassified from passenger car 'BG 369 F' to passenger car 'AG 369 E'.

**BG 370**

Details: passenger car 'BG 370 B' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 46.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$112610

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 57

**Date Built:** 01.01.1963

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS

**Remarks:** EX BD CLASS;COACH ECON.CL

**BSG Code:** PSTE

Capacity of 68 passengers

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Return to Service Date:	30.03.1992
Last Triple Valve:	31.03.1992
Last Lift:	27.07.1982

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**23.07.1982** Alteration complete 'CONVERSION OF (5) AVCY BRAKE VANS , (5) 'AG' AND (4) 'BG' COACH CARS FROM 1600MM TO 1435MM GUAGE BY MODIFYING BOGIES. (C1975)'.

**16.12.1982** Alteration complete 'MANUFACTURE AND INSTALLATION OF STORAGE CUPBOARD. (31s82)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**09.12.1987** Alteration complete 'RENUMBER THE SEATS OF 'AG' AND 'BG' COACH CLASS PASSENGER CARS. (RS4246)'.

**01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

**06.07.1988** Alteration complete 'MODIFY 4 'BG' CLASS SITTING CARS AS FOLLOWS:  
1. FIT ADDITIONAL SHOWER COMPARTMENT. 2. RELOCATE STORAGE CUPBOARD. 3. REUPHOLSTER SEATS WITH WOOLLEN FABRIC. 4. LAY CARPET TILES TO FLOOR. 5. REMOVE 1 SEAT AND WINDOW. (RS4299)'.



- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 23.08.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 05.11.1991** Alteration complete '1. PROVIDE SEATING FOR ADDITIONAL 10 PASSENGERS. 2. FIT GHAN EXTERIOR STRIPING AND LOGOS. 3. TRANSFER COMMUNICATIONS SYSTEM EX 'BA' CARS. BG 368-371 (RS4651)'.
- 30.03.1992** Repair 'SEAT (PASS.)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FROM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## BG 371

Details: passenger car 'BG 371 K' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 46.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$112610

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 57

**Date Built:** 01.01.1963

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS

**Remarks:** EX BD CLASS;COACH ECON.CL

**BSG Code:** PSTE

Capacity of 68 passengers

Return to Service Date:	14.02.1992
Last Triple Valve:	21.02.1992
Last Brake Cylinder:	21.02.1992
Last Lift:	19.08.1982

- 23.07.1982** Alteration complete 'CONVERSION OF (5) AVCY BRAKE VANS , (5) 'AG' AND (4) 'BG' COACH CARS FROM 1600MM TO 1435MM GUAGE BY MODIFYING BOGIES. (C1975)'.  
**16.12.1982** Alteration complete 'MANUFACTURE AND INSTALLATION OF STORAGE CUPBOARD. (31s82)'.  
**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.  
**20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.  
**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.  
**09.12.1987** Alteration complete 'RENUMBER THE SEATS OF 'AG' AND 'BG' COACH CLASS PASSENGER CARS. (RS4246)'.  
**01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.  
**06.07.1988** Alteration 'MODIFY 4 'BG' CLASS SITTING CARS AS FOLLOWS: 1. FIT ADDITIONAL SHOWER COMPARTMENT. 2. RELOCATE STORAGE CUPBOARD. 3. REUPHOLSTER SEATS WITH WOOLLEN FABRIC. 4. LAY CARPET TILES TO FLOOR. 5. REMOVE 1 SEAT AND WINDOW. (RS4299)'.  
**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.  
**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.  
**27.09.1990** Repair 'WHEEL SET'.  
**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.  
**05.11.1991** Alteration complete '1. PROVIDE SEATING FOR ADDITIONAL 10 PASSENGERS. 2. FIT GHAN EXTERIOR STRIPING AND LOGOS. 3. TRANSFER COMMUNICATIONS SYSTEM EX 'BA' CARS. BG 368-371 (RS4651)'.

- 14.02.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 14.02.1992** Repair 'BOGIE CLEARANCE'.
- 14.02.1992** Repair 'BRANCH PIPE'.
- 14.02.1992** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 14.02.1992** Repair 'CONCERTINA (PASS.)'.
- 14.02.1992** Repair 'COUPLER COMPLETE'.
- 14.02.1992** Repair 'COUPLER INTERNAL LOCKING PARTS'.
- 14.02.1992** Repair 'COUPLER KNUCKLE'.
- 14.02.1992** Repair 'COUPLER KNUCKLE PIN'.
- 14.02.1992** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 14.02.1992** Repair 'END COMPLETE'.
- 14.02.1992** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 14.02.1992** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 14.02.1992** Repair 'OTHER BRAKE CYLINDER COMPLETE'.
- 14.02.1992** Repair 'SEAT (PASS.)'.
- 14.02.1992** Repair 'WHEEL SET'.
- 14.02.1992** Repair 'YOKE COMPLETE'.
- 14.02.1992** Repair 'YOKE PIN'.
- 14.02.1992** Repair 'YOKE SUPPORT PLATE LINER'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FORM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## 2.45 Passengers Vehicle classification starting with 'BH'

### BH 2223

Details: passenger car 'BH 2223 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Length Over Headstocks:** 19.4m

**Tare Weight:** 44tonne

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only

**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** IST CLASS COACH  
**BSG Code:** PSSZ

Capacity of 48 passengers

#### **BH 2224**

Details: passenger car 'BH 2224 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 19.4m  
**Tare Weight:** 44tonne  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** IST CLASS COACH  
**BSG Code:** PSSZ

Capacity of 48 passengers

#### **BH 2226**

Details: passenger car 'BH 2226 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 19.4m  
**Tare Weight:** 44tonne  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** IST CLASS COACH  
**BSG Code:** PSSZ

Capacity of 48 passengers

**BH 2227**

Details: passenger car 'BH 2227 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 19.4m  
**Tare Weight:** 44tonne  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** IST CLASS COACH  
**BSG Code:** PSSZ

Capacity of 48 passengers

**2.46 Passengers Vehicle classification starting with 'BHM'****BHM 1738**

Details: passenger car 'BHM 1738 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** D  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1901  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSC

Capacity of 48 passengers

**2.47 Passengers Vehicle classification starting with 'BHZ'****BHZ 2220**

Details: passenger car 'BHZ 2220 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 19.4m

**Tare Weight:** 44tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** ECONOMY CLASS COACH  
**BSG Code:** PSSZ

Capacity of 48 passengers

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Corporate ID flag:	Y
Return to Service Date:	14.11.1986

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### **BHZ 2221**

Details: passenger car 'BHZ 2221 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 19.4m  
**Tare Weight:** 44tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** ECONOMY CLASS COACH  
**BSG Code:** PSSZ

Capacity of 48 passengers

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Return to Service Date:	11.08.1988
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### **BHZ 2222**

Details: passenger car 'BHZ 2222 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 19.4m  
**Tare Weight:** 44tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** IST CLASS COACH  
**BSG Code:** PSSZ

Capacity of 48 passengers

#### **BHZ 2224**

Details: passenger car 'BHZ 2224 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 19.4m  
**Tare Weight:** 44tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** ECONOMY CLASS CAR  
**BSG Code:** PSSZ

Capacity of 48 passengers

#### **BHZ 2225**

Details: passenger car 'BHZ 2225 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 19.4m  
**Tare Weight:** 44tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** ECONOMY CLASS COACH  
**BSG Code:** PSSZ

Capacity of 48 passengers

## 2.48 Passengers Vehicle classification starting with 'BJ'

### BJ 4

Details: passenger car 'BJ 4 M' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 46.2tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$37320

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-9

**Date Built:** 29.09.1952

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** COACH ECON.CL.;JOINT STOCK AN-V/LINE

**BSG Code:** PBME

Capacity of 64 passengers

Return to Service Date:	17.06.1991
Last Lift:	05.12.1983

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.



**17.06.1991** Repair 'WHEEL SET'.

## **BJ 5**

Details: passenger car 'BJ 5 V' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 44.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$47690

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-9

**Date Built:** 14.04.1960

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** COACH ECON.CL.;JOINT STOCK AN-V/LINE

**BSG Code:** PBME

Capacity of 64 passengers

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Return to Service Date:	27.11.1991
Last Lift:	28.08.1986

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**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.

**09.11.1989** Repair 'WHEEL SET'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**29.04.1991** Repair 'WHEEL SET'.

**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH

P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

**27.11.1991** Repair 'WHEEL SET'.

## BJ 6

Details: passenger car 'BJ 6 H' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 45.2tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$47690

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-9

**Date Built:** 27.05.1960

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** COACH ECON.CL.;JOINT STOCK AN-V/LINE

**BSG Code:** PBME

Capacity of 64 passengers

Return to Service Date:	25.07.1991
Last Lift:	30.06.1986

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.

**13.11.1989** Repair 'WHEEL SET'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN

HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

**25.07.1991** Repair 'WHEEL SET'.

## BJ 7

Details: passenger car 'BJ 7 Q' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$57520

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-9

**Date Built:** 02.05.1966

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** COACH ECON.CL.;JOINT STOCK AN-V/LINE

**BSG Code:** PBME

Capacity of 64 passengers

Return to Service Date:	18.09.1989
Last Lift:	26.07.1985

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.

**18.09.1989** Repair 'WHEEL SET'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

## **BJ 8**

Details: passenger car 'BJ 8 C' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$57520

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-9

**Date Built:** 30.05.1966

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** COACH ECON.CL.;JOINT STOCK AN-V/LINE

**BSG Code:** PBME

Capacity of 64 passengers

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Return to Service Date:	13.11.1989
Last Lift:	10.09.1985

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**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.

**13.11.1989** Repair 'WHEEL SET'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

## BJ 9

Details: passenger car 'BJ 9 L' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 45.2tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$62200

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-10

**Date Built:** 26.08.1968

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** COACH ECON.CL.;JOINT STOCK AN-V/LINE

**BSG Code:** PBME

Capacity of 64 passengers

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Return to Service Date:	21.07.1992
Due Triple Valve:	01.12.1993
Last Lift:	04.12.1984

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**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**14.01.1991** Repair 'WHEEL SET'.

**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

**21.07.1992** Repair 'WHEEL SET'.

**BJ 10**

Details: passenger car 'BJ 10 H' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 49.1tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$62200

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-10

**Date Built:** 19.09.1968

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** COACH ECON.CL.;JOINT STOCK AN-V/LINE

**BSG Code:** PBME

Capacity of 64 passengers

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Return to Service Date:	31.01.1989
Last Lift:	09.04.1985

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**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.

- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

## 2.49 Passengers Vehicle classification starting with 'BK'

### BK 1

Details: passenger car 'BK 1 K' in AN 'Mainland Division'.

**Owner:** AN  
**Operator:** C  
**Length Over Headstocks:** 18.5m  
**Tare Weight:** 36.2tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Original Cost:** \$15430  
**Diagram Book Page No.:** CB P-13  
**Date Built:** 13.08.1940  
**Operating System:** AN  
**Intended Use:** PASSENGERS  
**Remarks:** EX HIRE TO V/LINE;EX 702  
**BSG Code:** PBIE

Capacity of 56 passengers

Return to Service Date:	23.12.1976
Last Lift:	23.12.1976

- 17.12.1986** Alteration 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

### BK 2

Details: passenger car 'BK 2 T' in AN 'Mainland Division'.

**Owner:** AN  
**Operator:** C  
**Length Over Headstocks:** 18.5m  
**Tare Weight:** 36.2tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Original Cost:** \$15430  
**Diagram Book Page No.:** CB P-13  
**Date Built:** 13.08.1940  
**Operating System:** AN  
**Intended Use:** PASSENGERS  
**Remarks:** EX HIRE TO V/LINE;EX 703  
**BSG Code:** PBIE

Capacity of 56 passengers

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Return to Service Date:	04.04.1993
Last Lift:	10.12.1976

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**17.12.1986** Alteration 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.  
**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.  
**04.04.1993** Repair 'COUPLER KNUCKLE'.  
**04.04.1993** Repair 'COUPLER KNUCKLE PIN'.

## **2.50 Passengers Vehicle classification starting with 'BKL'**

### **BKL 3**

Details: passenger car 'BKL 3 S' in AN 'Mainland Division'.

**Owner:** AN  
**Operator:** C  
**Length Over Headstocks:** 21.2m  
**Tare Weight:** 41.6tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Original Cost:** \$14810  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** CB P-17



**Date Built:** 01.01.1935  
**Operating System:** AN  
**Intended Use:** PASSENGERS  
**Remarks:** EX HIRE TO V/LINE;EX 600  
**BSG Code:** PBIE

Capacity of 64 passengers

- 17.12.1986** Alteration 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.  
**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

## 2.51 Passengers Vehicle classification starting with 'BM'

### BM 259

Details: passenger car 'BM 259 C' in AN 'Mainland Division'.

**Owner:** AN  
**Operator:** C  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 58.5tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** AN  
**Intended Use:** PASSENGERS  
**Remarks:** COACH CAR  
**BSG Code:** PSPU

Capacity of 52 passengers

- 23.05.1990** Alteration complete 'A)INSTAL CONCERTINAS. B)FILL FRONT WINDOWS. C)REMOVE DRIVING CONTROLS. D)RELIN VESTIBLES. E)REMOVE PILOTS. F)REWORK BRAKE GEAR(256). G) FIT SECURING BOLTS TO DOORS. H)PAINT CAR TO MATCH O/LAND. I)REMOVE ROOF RADIATORS. J)REMOVE EXHAUST PIPES. K)INSTAL ROOF (RADIATOR SECTION). L)REMOVE HEAD LIGHTS ETC. M)INSTAL ONE COLD WATER TANK. N)CARS TO BE 1600MM GA. O)RECLASSIFY BM256V & BM259C. RAIL CARS 256 & 259. (RS4508)'.  
**27.11.1991** Repair 'WHEEL SET'.  
**19.12.1995** Repair 'VEHICLE CUT FOR SCRAP'.

## 2.52 Passengers Vehicle classification starting with 'BR'

### BR 43

**06.06.1992** Repair 'VEHICLE SOLD'.

### BR 101

**02.03.1990** Alteration complete '1) FIT ADDITIONAL WATER TANKS(100 GALLONS)  
2) PAINT CARS SILVER 3) REMOVE END WINDOWS - VESTIBLE 4) RECLASSIFY  
TO BR 101X, 102R, 105V, 106H, 107Q 5) CONVERT 102 & 107 FROM 1600 TO 1435  
MM GAUGE. RAILCAR TRAILERS 101, 102, 105, 106, 107. (RS4482)'. New class:  
'BR'.

**26.07.1991** Repair 'BODY COMPLETE'.

**26.07.1991** Repair 'ROOF COMPLETE'.

**27.07.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**27.07.1991** Repair 'BOGIE BRAKE BLOCKS X92'.

**27.07.1991** Repair 'BOGIE BRAKE BLOCKS X92'.

**27.07.1991** Repair 'BOGIE CLEARANCE'.

**27.07.1991** Repair 'BOGIE COMPLETE'.

**27.07.1991** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.

**27.07.1991** Repair 'COUPLER COMPLETE'.

**27.07.1991** Repair 'COUPLER KNUCKLE'.

**27.07.1991** Repair 'COUPLER KNUCKLE PIN'.

**27.07.1991** Repair 'END COMPLETE'.

**27.07.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.

**27.07.1991** Repair 'OTHER BRAKE CYLINDER COMPLETE'.

**27.07.1991** Repair 'OTHER SLACK ADJUSTER COMPLETE'.

**07.12.1995** Repair 'VEHICLE SOLD'.

### BR 102

Details: passenger car 'BR 102 R' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 43.1tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$108020

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB R3

**Date Built:** 22.11.1955

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** EX 102;PASS. CAR

**BSG Code:** PSPE

## Capacity of 72 passengers

Return to Service Date:	26.10.1992
Last Triple Valve:	27.11.1991

- 02.03.1990** Alteration complete '1) FIT ADDITIONAL WATER TANKS(100 GALLONS)  
2) PAINT CARS SILVER 3) REMOVE END WINDOWS - VESTIBLE 4) RECLASSIFY  
TO BR 101X, 102R, 105V, 106H, 107Q 5) CONVERT 102 & 107 FROM 1600 TO 1435  
MM GAUGE. RAILCAR TRAILERS 101, 102, 105, 106, 107. (RS4482)'. New class:  
'BR'.
- 27.04.1991** Repair 'BOGIE CLEARANCE'.
- 27.04.1991** Repair 'BOGIE COMPLETE'.
- 27.04.1991** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 25.07.1991** Repair 'BODY COMPLETE'.
- 25.07.1991** Repair 'ROOF COMPLETE'.
- 26.10.1992** Repair 'WHEEL SET'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS  
TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING  
SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING  
C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP'  
PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION  
SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION  
ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP  
AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11.  
(RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON  
ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO.  
A1/C8-10. (RS4811)'.

**BR 103**

Details: passenger car 'BR 103 D' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** P

**Length Over Headstocks:** 22.9m

**Tare Weight:** 43.1tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$1000000

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Date Built:** 01.01.1901

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** EX 103 PASS. CAR

**BSG Code:** PSPE

Capacity of 72 passengers

**11.12.1989** Alteration complete '1. MODIFY BRAKE GEAR 2. FIT ELASTOMER 3. CARPET FLOOR 4. RE-UPHOLSTER SEATS 5. REMOVE ENGINES (259) 6. REWORK BAGGAGE AREA (259) 101, 105, 106, 259. (RS4463)'.  
**19.10.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.  
**01.07.1993** Repair 'VEHICLE SOLD'.

## **BR 105**

Details: passenger car 'BR 105 V' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 43.1tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$113860

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB R3

**Date Built:** 16.07.1958

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** EX 105;PASS. CAR WITH BUFFET

**BSG Code:** PSPE

Capacity of 68 passengers

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Return to Service Date:	05.06.1991
Last Triple Valve:	26.06.1991
Last Brake Cylinder:	26.06.1991

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**11.12.1989** Alteration complete '1. MODIFY BRAKE GEAR 2. FIT ELASTOMER 3. CARPET FLOOR 4. RE-UPHOLSTER SEATS 5. REMOVE ENGINES (259) 6. REWORK BAGGAGE AREA (259) 101, 105, 106, 259. (RS4463)'.  
**02.03.1990** Alteration complete '1) FIT ADDITIONAL WATER TANKS(100 GALLONS) 2) PAINT CARS SILVER 3) REMOVE END WINDOWS - VESTIBLE 4) RECLASSIFY TO BR 101X, 102R, 105V, 106H, 107Q 5) CONVERT 102 & 107 FROM 1600 TO 1435 MM GAUGE. RAILCAR TRAILERS 101, 102, 105, 106, 107. (RS4482)'. New class: 'BR'.  
**05.06.1991** Repair 'BOGIE CLEARANCE'.  
**14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.

- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

## BR 106

- 02.03.1990** Alteration complete '1) FIT ADDITIONAL WATER TANKS(100 GALLONS) 2) PAINT CARS SILVER 3) REMOVE END WINDOWS - VESTIBLE 4) RECLASSIFY TO BR 101X, 102R, 105V, 106H, 107Q 5) CONVERT 102 & 107 FROM 1600 TO 1435 MM GAUGE. RAILCAR TRAILERS 101, 102, 105, 106, 107. (RS4482)'. New class: 'BR'.
- 02.08.1991** Repair 'BODY COMPLETE'.
- 02.08.1991** Repair 'ROOF COMPLETE'.
- 14.08.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 14.08.1992** Repair 'BRAKE SPREADER & HANGERS'.
- 14.08.1992** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 14.08.1992** Repair 'OTHER BRAKE CYLINDER COMPLETE'.
- 14.08.1992** Repair 'TRAIN PIPE'.
- 12.01.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 12.01.1993** Repair 'BOGIE BEARERS'.
- 12.01.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 12.01.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 12.01.1993** Repair 'BOGIE COMPLETE'.
- 12.01.1993** Repair 'BRAKE SPREADER & HANGERS'.
- 12.01.1993** Repair 'COUPLER COMPLETE'.
- 12.01.1993** Repair 'COUPLER KNUCKLE'.
- 12.01.1993** Repair 'COUPLER KNUCKLE PIN'.
- 12.01.1993** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 12.01.1993** Repair 'END COMPLETE'.
- 12.01.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 12.01.1993** Repair 'WHEEL SET'.
- 12.01.1993** Repair 'YOKE COMPLETE'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 27.07.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION

SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 10.08.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 24.08.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 24.08.1993** Repair 'COUPLER KNUCKLE'.
- 24.08.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 31.08.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 31.08.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 07.09.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 07.09.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 21.09.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 21.09.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 19.10.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 19.10.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 26.10.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 26.10.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 02.11.1993** Repair 'BRAKE BLOCK RB95'.
- 02.11.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 09.11.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 16.11.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 16.11.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 30.11.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 30.11.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 30.11.1993** Repair 'VEHICLE COMPLETE'.
- 07.12.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 07.12.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 16.12.1993** Repair 'WHEEL SET'.
- 12.01.1994** Repair 'BRIDGE PLATE ASSEMBLY'.
- 02.02.1994** Repair 'BOGIE BRAKE BLOCKS X92'.
- 02.02.1994** Repair 'BOGIE COMPLETE'.
- 02.02.1994** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 08.02.1994** Repair 'BOGIE BRAKE BLOCKS X92'.
- 08.02.1994** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 25.09.1994** Repair 'VEHICLE SOLD'.

## **2.53 Passengers Vehicle classification starting with 'BRA'**

### **BRA 59**

Details: passenger car 'BRA 59 B' in AN 'Mainland Division'.

**Owner:** SPRPS

**Operator:** C

**Length Over Headstocks:** 23.3m  
**Tare Weight:** 45.2tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Diagram Book Page No.:** NS 78  
**Date Built:** 01.01.1941  
**Operating System:** SRPS  
**Intended Use:** PASSENGERS  
**Remarks:** SLEEPING CAR;STORED PPI  
**BSG Code:** PSSS

Capacity of 32 sleeping

## **2.54 Passengers Vehicle classification starting with 'BRB'**

### **BRB 86**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.  
**12.10.1991** Repair 'VEHICLE RECOMMENDED CONDEMN'.  
**06.06.1992** Repair 'VEHICLE SOLD'.

### **BRB 87**

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.  
**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.  
**12.10.1991** Repair 'VEHICLE RECOMMENDED CONDEMN'.  
**06.06.1992** Repair 'VEHICLE SOLD'.

### **BRB 88**

Details: passenger car 'BRB 88 T' in AN 'Mainland Division'.

**Owner:** AN  
**Operator:** D  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 48.2tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$114000

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 80

**Date Built:** 15.11.1952

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** TRANSPORT DRIVERS.NON AIR CON.(SURPLUS)

**BSG Code:** DSDZ

Capacity of 24 sleeping

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Fleet Grp Code:	AH
Return to Service Date:	13.09.1988
Last Single Car Test:	24.05.1988
Last Lift:	24.01.1977

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**08.03.1983** Alteration 'REMOVE FRONT LUG FOR LOCATING BOTTOM OF GAS CYLINDERS TO FACILITATE THE CHANGING OF CYLINDERS. EXISTING LUGS TO BE REPOSITIONED WHERE NECESSARY. (03s83)'.

**13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

## **BRB 89**

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.



**20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**12.10.1991** Repair 'VEHICLE RECOMMENDED CONDEMN'.

**06.06.1992** Repair 'VEHICLE SOLD'.

## **2.55 Passengers Vehicle classification starting with 'BRD'**

### **BRD 110**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

**10.11.1994** Repair 'VEHICLE CUT FOR SCRAP'.

### **BRD 111**

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

**19.12.1995** Repair 'VEHICLE CUT FOR SCRAP'.

### **BRD 112**

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

- 30.01.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 30.01.1990** Repair 'BOGIE BRAKE BLOCKS X92'.
- 30.01.1990** Repair 'END BRAKE COCK'.
- 30.01.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 30.01.1990** Repair 'TRAIN PIPE'.
- 06.02.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 06.02.1990** Repair 'BRANCH PIPE'.
- 06.02.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 13.02.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 13.02.1990** Repair 'BOGIE BRAKE BLOCKS X92'.
- 13.02.1990** Repair 'CONCERTINA (PASS.)'.
- 13.02.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 28.03.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 28.03.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 28.03.1990** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 13.06.1990** Repair 'TRAIN PIPE'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN)  
REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR  
CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK.  
(RS4800)'.
- 10.11.1994** Repair 'VEHICLE CUT FOR SCRAP'.

## **2.56 Passengers Vehicle classification starting with 'BRE'**

### **BRE 132**

- 25.05.1990** Reclassified from passenger car 'BRE 132 K' to passenger car 'ECA 132 R'.

### **BRE 133**

- 04.07.1979** Alteration 'ALTERATION TO INDIVIDUAL STEPS IN ACCORDANCE TO  
DRAWING. (03s79)'.
- 13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO  
INCREASE CLOSING FORCE. (RS4128)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO  
PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND  
STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES  
(PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL  
PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO  
EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM  
COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL  
PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS  
OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS.  
(RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS.  
ALL PASSENGER CARS. (RS4518)'.

**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

**22.02.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**22.02.1993** Repair 'BOGIE COMPLETE'.

**22.02.1993** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.

**22.02.1993** Repair 'COUPLER COMPLETE'.

**22.02.1993** Repair 'DRAFTGEAR COMPLETE HEAVY'.

**22.02.1993** Repair 'END COMPLETE'.

**22.02.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.

**22.02.1993** Repair 'TRAIN PIPE'.

**22.02.1993** Repair 'WHEEL SET'.

**22.02.1993** Repair 'YOKE COMPLETE'.

## **BRE 134**

Details: passenger car 'BRE 134 F' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D

**Length Over Headstocks:** 22.9m

**Tare Weight:** 51.9tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$148700

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 83

**Date Built:** 05.02.1964

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** TWINETTE ECONOMY CL. - CCE ALICE SPRINGS

**BSG Code:** DSDZ

Capacity of 32 sleeping

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Fleet Grp Code:	AH
Return to Service Date:	08.12.1989
Last Single Car Test:	08.12.1989
Last Lift:	23.06.1982

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**13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 08.12.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 08.12.1989** Repair 'GRADE CONTROL VALVE'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

## **BRE 135**

- 13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN

HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

## BRE 160

Details: passenger car 'BRE 160 Q' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D

**Length Over Headstocks:** 22.9m

**Tare Weight:** 51.9tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$148700

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 83

**Date Built:** 02.11.1964

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** TWINETTE ECONOMY CLASS (SURPLUS)

**BSG Code:** DSDZ

Capacity of 32 sleeping

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Fleet Grp Code:	AH
Return to Service Date:	18.10.1990
Last Lift:	13.05.1985

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**04.07.1979** Alteration 'ALTERATION TO INDIVIDUAL STEPS IN ACCORDANCE TO DRAWING. (03s79)'.

**13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM

COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**18.10.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**18.10.1990** Repair 'COUPLER INTERNAL LOCKING PARTS'.

**18.10.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.

**18.10.1990** Repair 'WEAR PLATES & SADDLES'.

**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

## **BRE 161**

Details: passenger car 'BRE 161 C' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D

**Length Over Headstocks:** 22.9m

**Tare Weight:** 51.9tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$148700

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 83

**Date Built:** 08.12.1964

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** TWINETTE ECONOMY CLASS (SURPLUS)

**BSG Code:** DSDZ

Capacity of 32 sleeping

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Fleet Grp Code:	AH
Return to Service Date:	04.05.1994
Last Triple Valve:	05.04.1989
Last Single Car Test:	05.04.1994
Last Lift:	17.12.1980

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- 04.07.1979** Alteration complete 'ALTERATION TO INDIVIDUAL STEPS IN ACCORDANCE TO DRAWING. (03s79)'.
- 10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 07.02.1990** Repair 'COUPLER INTERNAL LOCKING PARTS'.
- 21.02.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 21.02.1990** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 21.02.1990** Repair 'CONCERTINA (PASS.)'.
- 21.02.1990** Repair 'COUPLER INTERNAL LOCKING PARTS'.
- 21.02.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 23.05.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 23.05.1990** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 23.05.1990** Repair 'BOGIE CLEARANCE'.
- 23.05.1990** Repair 'END COMPLETE'.
- 23.05.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 23.05.1990** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 10.08.1990** Repair 'COUPLER INTERNAL LOCKING PARTS'.
- 10.08.1990** Repair 'UNCOUPLING ROD ASSEMBLY'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 18.03.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 18.03.1992** Repair 'BOGIE BRAKE BLOCKS X92'.
- 18.03.1992** Repair 'COUPLER INTERNAL LOCKING PARTS'.
- 18.03.1992** Repair 'END BRAKE COCK'.

- 18.03.1992** Repair 'END HOSE'.
- 18.03.1992** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 18.03.1992** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 18.03.1992** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 18.03.1992** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 18.03.1992** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 19.11.1992** Repair 'UNCOUPLING ROD ASSEMBLY'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN)  
REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR  
CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK.  
(RS4800)'.
- 23.07.1993** Repair 'DOOR COMPLETE'.
- 11.08.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 19.08.1993** Repair 'BRAKE BLOCK RB95'.
- 26.08.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 26.08.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 11.11.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 11.11.1993** Repair 'BOGIE CLEARANCE'.
- 11.11.1993** Repair 'BOGIE COMPLETE'.
- 11.11.1993** Repair 'BRANCH PIPE'.
- 11.11.1993** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 11.11.1993** Repair 'END COMPLETE'.
- 11.11.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 11.11.1993** Repair 'VESTIBULE (PASS.)'.
- 04.03.1994** Repair 'BOGIE COMPLETE'.
- 05.04.1994** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 05.04.1994** Repair 'ISOLATING COCK'.
- 04.05.1994** Repair 'OTHER SLACK ADJUSTER COMPLETE'.

## **BRE 162**

- 04.07.1979** Alteration complete 'ALTERATION TO INDIVIDUAL STEPS IN  
ACCORDANCE TO DRAWING. (03s79)'.
- 13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO  
INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF  
APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS.  
CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO  
PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL  
PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES  
(PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL  
PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO  
EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM  
COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL  
PASSENGER CARS. (RS4270)'.



- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 04.01.1990** Repair 'END HOSE'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

## 2.57 Passengers Vehicle classification starting with 'BRF'

### BRF 90

Details: passenger car 'BRF 90 N' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D

**Length Over Headstocks:** 25m

**Tare Weight:** 49tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$116560

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 84

**Date Built:** 15.11.1952

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** SLEEP TRANSPORT DRIVERS.NON A/COND

**BSG Code:** DSDZ

Capacity of 24 sleeping

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Fleet Grp Code:	AH
Return to Service Date:	08.04.1994
Last Lift:	01.07.1983

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- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM

COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 29.08.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 29.08.1989** Repair 'CONCERTINA (PASS.)'.
- 29.08.1989** Repair 'COUPLER COMPLETE'.
- 29.08.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 13.01.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 13.01.1990** Repair 'BATTERY CHARGER (PASS.)'.
- 13.01.1990** Repair 'BOGIE BRAKE BLOCKS X92'.
- 13.01.1990** Repair 'COUPLER TRIGGER LEVER'.
- 13.01.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 13.01.1990** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 06.02.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 06.02.1990** Repair 'BATTERY CHARGER (PASS.)'.
- 06.02.1990** Repair 'COUPLER INTERNAL LOCKING PARTS'.
- 06.02.1990** Repair 'COUPLER TRIGGER LEVER'.
- 06.02.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 02.04.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 02.04.1990** Repair 'BOGIE CLEARANCE'.
- 02.04.1990** Repair 'COUPLER COMPLETE'.
- 02.04.1990** Repair 'COUPLER INTERNAL LOCKING PARTS'.
- 02.04.1990** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 02.04.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 21.05.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 22.10.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 08.04.1994** Repair 'BOGIE COMPLETE'.
- 08.04.1994** Repair 'BRAKE PIN'.

## **BRFC 114**

Details: passenger car 'BRFC 114 E' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D

**Length Over Headstocks:** 24.4m**Tare Weight:** 52.7tonne**Current Gauge:** Standard**Gauge Restrictions:** S**Bogie Configuration:** 2X2**Original Cost:** \$90690**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate**Diagram Book Page No.:** NS 86**Date Built:** 07.02.1961**Operating System:** AN**Intended Use:** PASSENGERS**Remarks:** W/O 02.04.88ECON.CL;TWINETTE WITH LOUNGE**BSG Code:** DSDZ

Capacity of 20 sleeping

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Fleet Grp Code:	AH
Return to Service Date:	04.04.1989
Last Lift:	16.06.1983

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**13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.**BRFC 115****17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.**20.07.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.**20.07.1989** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.**20.07.1989** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.**20.07.1989** Repair 'COUPLER COMPLETE'.**20.07.1989** Repair 'END BRAKE COCK'.**20.07.1989** Repair 'END HOSE'.**20.07.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.**20.07.1989** Repair 'ISOLATING COCK'.**20.07.1989** Repair 'OTHER BRAKE CYLINDER COMPLETE'.**18.09.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**18.09.1989** Repair 'BRAKE BLOCK RB95'.  
**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS.  
ALL PASSENGER CARS. (RS4518)'.  
**29.10.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.  
**29.10.1990** Repair 'BOGIE BRAKE BLOCKS X92'.  
**29.10.1990** Repair 'BOGIE BRAKE BLOCKS X92'.  
**29.10.1990** Repair 'BOGIE COMPLETE'.  
**29.10.1990** Repair 'END COMPLETE'.  
**29.10.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.  
**29.10.1990** Repair 'OTHER SLACK ADJUSTER COMPLETE'.  
**29.10.1990** Repair 'WHEEL SET'.  
**10.11.1994** Repair 'VEHICLE SOLD'.

**BRFD 163**

Details: passenger car 'BRFD 163 Q' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D

**Length Over Headstocks:** 24.4m

**Tare Weight:** 50.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$155990

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 87

**Date Built:** 17.05.1965

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** ECON.CLASS TWINETTE WITH LOUNGE

**BSG Code:** DSDZ

Capacity of 20 sleeping

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Fleet Grp Code:	AH
Return to Service Date:	15.03.1993
Due Triple Valve:	03.05.1991
Last Brake Cylinder:	26.07.1988
Last Single Car Test:	15.08.1988
Last Lift:	02.09.1980

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**13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 18.09.1989** Repair 'BOGIE COMPLETE'.
- 18.09.1989** Repair 'COUPLER INTERNAL LOCKING PARTS'.
- 18.09.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 18.09.1989** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 18.09.1989** Repair 'WEAR PLATES & SADDLES'.
- 05.02.1990** Repair 'ELECTRICAL CONTROL PANEL (PASS.)'.
- 20.02.1990** Repair 'BOGIE BRAKE RIGGING, LEVERS & RODS'.
- 20.02.1990** Repair 'BOGIE WEAR PLATES'.
- 20.02.1990** Repair 'UNCOUPLING ROD ASSEMBLY'.
- 20.02.1990** Repair 'WHEEL SET'.
- 01.05.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 01.05.1990** Repair 'BOGIE BRAKE BLOCKS X92'.
- 01.05.1990** Repair 'COMPLETE TRIPLE VALVE 'AF' OR 'ITV'.
- 01.05.1990** Repair 'COUPLER INTERNAL LOCKING PARTS'.
- 01.05.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 01.05.1990** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 22.11.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 22.11.1990** Repair 'END HOSE'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 27.06.1991** Repair 'BOGIE BOLSTER'.
- 27.06.1991** Repair 'BOGIE COMPLETE'.
- 27.06.1991** Repair 'BOGIE SPRING'.
- 27.06.1991** Repair 'BRANCH PIPE'.
- 27.06.1991** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 27.06.1991** Repair 'END COMPLETE'.
- 27.06.1991** Repair 'UNDERFRAME COMPLETE'.
- 13.09.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 13.09.1991** Repair 'BOGIE COMPLETE'.
- 13.09.1991** Repair 'COUPLER INTERNAL LOCKING PARTS'.
- 13.09.1991** Repair 'END COMPLETE'.
- 13.09.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.

**20.02.1992** Repair 'WEAR PLATES & SADDLES'.

**15.03.1993** Repair 'WHEEL SET'.

## **2.58 Passengers Vehicle classification starting with 'BRG'**

### **BRG 168**

Details: passenger car 'BRG 168 C' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 49.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$154060

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 88

**Date Built:** 08.11.1966

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE

**BSG Code:** PSPU

Capacity of 32 sleeping

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Return to Service Date:	01.07.1987
Last Lift:	22.08.1986

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**04.06.1984** Alteration 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.

**10.03.1986** Alteration 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

**13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## BRG 170

Details: passenger car 'BRG 170 H' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D

**Length Over Headstocks:** 22.9m

**Tare Weight:** 49.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$154060

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 88

**Date Built:** 16.11.1966

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE

**BSG Code:** PSPU

Capacity of 32 sleeping

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Fleet Grp Code:	AH
Return to Service Date:	30.03.1994
Last Lift:	12.08.1986

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**04.06.1984** Alteration 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.

**10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

**13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

**31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**28.11.1990** Repair 'ISOLATING COCK'.

**11.04.1991** Repair 'BOGIE BRAKE BLOCKS X92'.

**11.04.1991** Repair 'OTHER SLACK ADJUSTER COMPLETE'.



- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 13.01.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 13.01.1992** Repair 'BOGIE BRAKE BLOCKS X92'.
- 13.01.1992** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 11.10.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 11.10.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 11.10.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 11.10.1993** Repair 'BOGIE CLEARANCE'.
- 11.10.1993** Repair 'BOGIE COMPLETE'.
- 11.10.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 11.10.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 11.10.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 11.10.1993** Repair 'VESTIBULE (PASS.)'.
- 11.10.1993** Repair 'WEAR PLATES & SADDLES'.
- 04.11.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 16.11.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 16.11.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 04.02.1994** Repair 'BOGIE BRAKE BLOCKS X92'.
- 04.02.1994** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 04.02.1994** Repair 'WEAR PLATES & SADDLES'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.
- 02.03.1994** Repair 'BOGIE COMPLETE'.
- 30.03.1994** Repair 'BOGIE BRAKE BLOCKS X92'.
- 30.03.1994** Repair 'OTHER SLACK ADJUSTER COMPLETE'.

**BRG 171**

Details: passenger car 'BRG 171 Q' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 49.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$154060

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 88

**Date Built:** 16.11.1966

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE

**BSG Code:** PSTU

Capacity of 32 sleeping

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Return to Service Date:	05.05.1992
Last Triple Valve:	24.02.1992
Last Lift:	28.02.1987

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**28.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET, LIGHTING SWITCHBOARD CONTROL CABINET, AND HEATER BANK COVER PLATE IN ROOF UNIT. (12s80)'.

**04.06.1984** Alteration 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. (C2069)'.

**10.03.1986** Alteration 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 25.06.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 17.10.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 17.10.1991** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 17.10.1991** Repair 'BOGIE CLEARANCE'.
- 17.10.1991** Repair 'BRIDGE PLATE ASSEMBLY'.
- 17.10.1991** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 17.10.1991** Repair 'CONCERTINA (PASS.)'.
- 17.10.1991** Repair 'COUPLER KNUCKLE'.
- 17.10.1991** Repair 'COUPLER KNUCKLE PIN'.
- 17.10.1991** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 17.10.1991** Repair 'END COMPLETE'.
- 17.10.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 17.10.1991** Repair 'YOKE COMPLETE'.
- 17.10.1991** Repair 'YOKE PIN'.
- 05.05.1992** Repair 'BOGIE BOTTOM CENTRE PLATE'.
- 05.05.1992** Alteration complete 'PASSENGER ROLLINGSTOCK FOREPERSON PLEASE ARRANGE A SUITABLE PASSENGER COACH FOR THE TESTING OF NEW 'TUFFCLAD PLASTIC CENTRE LINERS'. (2 TUFFCLAD LINERS HAVE BEEN SUPPLIED TO YOUR DEPOT) (RS4696)'.
- 16.09.1992** Repair 'WHEEL SET'.
- 07.12.1992** Repair 'WHEEL SET'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP

AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FORM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

### **BRG 173**

Details: passenger car 'BRG 173 L' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 49.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$154060

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 88

**Date Built:** 23.11.1966

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE

**BSG Code:** PSTU

Capacity of 32 sleeping

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Return to Service Date:	10.04.1992
Last Lift:	20.02.1985

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**04.06.1984** Alteration 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.

**10.03.1986** Alteration 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

**13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 16.08.1989** Repair 'WHEEL SET'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 18.05.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 10.04.1992** Repair 'WHEEL SET'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FROM MAIN SWBD TO AIR CON PANEL & REWIRE AS

PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

### **BRG 175**

Details: passenger car 'BRG 175 G' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 49.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$154060

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 88

**Date Built:** 11.11.1966

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE

**BSG Code:** PSPU

Capacity of 32 sleeping

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Return to Service Date:	15.04.1994
Last Single Car Test:	30.09.1993
Last Lift:	13.03.1978

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**04.06.1984** Alteration complete 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.

**10.03.1986** Alteration 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

**13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM

COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 13.05.1991** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 24.08.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 15.09.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 15.09.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 29.09.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 29.09.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 29.09.1993** Repair 'BRAKE SPREADER & HANGERS'.
- 21.10.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 21.10.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 03.11.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 03.11.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES

WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**15.04.1994** Repair 'BOGIE BRAKE BLOCKS X92'.

**15.04.1994** Repair 'OTHER SLACK ADJUSTER COMPLETE'.

### **BRG 969**

Details: passenger car 'BRG 969 V' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 49.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$154060

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 88

**Date Built:** 08.11.1966

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE;I.P.CAR

**BSG Code:** PSPU

Capacity of 32 sleeping

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Return to Service Date:	10.03.1994
Last Lift:	15.06.1979

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**10.12.1979** Alteration 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.

**10.12.1979** Alteration 'MODIFICATION TO HANDBRAKE. DWG AC 1709B, BC1567C. BRG 969, 972, 974. BRJ 912, 914, 915, 916, 917, 918, 919, 999. DF 930, 934, 935, 964. ER 906, 909, 910, 911. (IP1379)'.

**09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.

**09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0280)'.

**12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.

**20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC



936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL  
920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG  
969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF  
927,930,934,935,964, ER 906,909,910,911. (IP0880)'.

**30.09.1981** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN IN  
CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ

940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961,  
962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914  
915,916,917,918,919,999. (IP0481)'.

**15.05.1984** Alteration 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C  
173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961,  
962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,  
914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.

**31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER  
TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I.  
ITEMS 6,7,8. ALL CARS. (IP0284)'.

**10.03.1986** Alteration 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF  
STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF  
APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS.  
CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**05.02.1987** Alteration 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF  
STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 &  
3C-111 (IP0287)'.

**05.02.1987** Alteration 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE  
CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.

**20.03.1987** Alteration 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE  
DRAWING 2C-190 (IP0387)'.

**11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER  
ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED  
BY IP1087; (IP0687)'.

**26.08.1987** Alteration 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP  
PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.

**22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP  
PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL  
NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS.  
(IP0987)'.

**09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT  
INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO  
EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM  
COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL  
PASSENGER CARS. (RS4270)'.

**01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME  
BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG,  
BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL  
STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS.  
ALL PASSENGER CARS. (RS4518)'.

- 15.08.1990** Repair 'WHEEL SET'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 28.07.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 22.10.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 22.10.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 03.02.1994** Repair 'BOGIE BRAKE BLOCKS X92'.
- 03.02.1994** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.
- 23.02.1994** Repair 'WEAR PLATES & SADDLES'.
- 02.03.1994** Repair 'BOGIE COMPLETE'.
- 10.03.1994** Repair 'BOGIE BRAKE BLOCKS X92'.
- 10.03.1994** Repair 'OTHER SLACK ADJUSTER COMPLETE'.

## BRG 972

Details: passenger car 'BRG 972 M' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 49.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$154060

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 88

**Date Built:** 23.11.1966

**Operating System:** IP POOL

**Intended Use:** PASSENGERS**Remarks:** ECONOMY CLASS TWINETTE;I.P.CAR**BSG Code:** PSPU

Capacity of 32 sleeping

Return to Service Date: 18.07.1990

Last Lift: 07.06.1976

- 10.12.1979** Alteration 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration 'MODIFICATION TO HANDBRAKE. DWG AC 1709B, BC1567C. BRG 969, 972, 974. BRJ 912, 914, 915, 916, 917, 918, 919, 999. DF 930, 934, 935, 964. ER 906, 909, 910, 911. (IP1379)'.
- 09.01.1980** Alteration 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 15.05.1984** Alteration 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 10.03.1986** Alteration 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 18.07.1990** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 18.07.1990** Repair 'AIR CONDITIONER CONDENSOR (PASS.)'.
- 18.07.1990** Repair 'AIR CONDITIONER MOTOR (PASS.)'.
- 18.07.1990** Repair 'BATTERY BOX (PASS.)'.
- 18.07.1990** Repair 'BATTERY CHARGER (PASS.)'.
- 18.07.1990** Repair 'ELECTRICAL CONTROL PANEL (PASS.)'.
- 18.07.1990** Repair 'EVAPORATOR UNIT (PASS.)'.
- 18.07.1990** Repair 'HOT WATER TANK (PASS.)'.
- 18.07.1990** Repair 'LIGHTING (INTERIOR)'.
- 18.07.1990** Repair 'WATER COOLER (PASS.)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION

SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## BRG 974

Details: passenger car 'BRG 974 H' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 49.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$154060

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 88

**Date Built:** 30.11.1966

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE;I.P.CAR

**BSG Code:** PSPU

Capacity of 32 sleeping

Return to Service Date:	21.07.1982
Last Lift:	02.08.1977

**10.12.1979** Alteration 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.

**10.12.1979** Alteration 'MODIFICATION TO HANDBRAKE. DWG AC 1709B, BC1567C. BRG 969, 972, 974. BRJ 912, 914, 915, 916, 917, 918, 919, 999. DF 930, 934, 935, 964. ER 906, 909, 910, 911. (IP1379)'.

**09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.

**09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0280)'.

- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 15.05.1984** Alteration 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 10.03.1986** Alteration 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 17.12.1986** Alteration 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL

PASSENGER CARS. (RS4270)'.

- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## 2.59 Passengers Vehicle classification starting with 'BRJ'

### BRJ 213

**07.10.1994** Reclassified from passenger car 'BRJ 213 C' to passenger car 'AFC 213 C'.

### BRJ 220

**11.10.1989** Reclassified from passenger car 'BRJ 220 G' to passenger car 'ECA 220 V'.

### BRJ 221

Details: passenger car 'BRJ 221 P' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$161510

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 89

**Date Built:** 28.03.1969

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE

**BSG Code:** PSPU

Capacity of 32 sleeping

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Return to Service Date:	12.11.1990
Last Triple Valve:	10.04.1991
Last Lift:	07.06.1982

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- 27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 04.06.1984** Alteration 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. (C2069)'.
- 10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 12.11.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.



- 12.11.1990** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 12.11.1990** Repair 'BOGIE BEARERS'.
- 12.11.1990** Repair 'BOGIE CLEARANCE'.
- 12.11.1990** Repair 'BOGIE COMPLETE'.
- 12.11.1990** Repair 'BRIDGE PLATE ASSEMBLY'.
- 12.11.1990** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 12.11.1990** Repair 'CONCERTINA (PASS.)'.
- 12.11.1990** Repair 'CONCERTINA (PASS.)'.
- 12.11.1990** Repair 'COUPLER INTERNAL LOCKING PARTS'.
- 12.11.1990** Repair 'COUPLER KNUCKLE'.
- 12.11.1990** Repair 'COUPLER KNUCKLE PIN'.
- 12.11.1990** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 12.11.1990** Repair 'END COMPLETE'.
- 12.11.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 12.11.1990** Repair 'VESTIBULE (PASS.)'.
- 12.11.1990** Repair 'VESTIBULE (PASS.)'.
- 12.11.1990** Repair 'YOKE COMPLETE'.
- 12.11.1990** Repair 'YOKE PIN'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## BRJ 222

- 29.11.1986** Reclassified from passenger car 'BRJ 222 B' to passenger car 'AEC 222 W'.

**BRJ 223**

**14.07.1986** Reclassified from passenger car 'BRJ 223 K' to passenger car 'ACC 223 E'.

**BRJ 267**

Details: passenger car 'BRJ 267 J' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$161510

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 89

**Date Built:** 10.10.1969

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE

**BSG Code:** PSPU

Capacity of 32 sleeping

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Return to Service Date:	06.12.1990
Due Triple Valve:	10.04.1992
Last Lift:	21.04.1987

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**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**04.06.1984** Alteration 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.

**10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 06.11.1989** Repair 'WHEEL SET'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 06.12.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 06.12.1990** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 06.12.1990** Repair 'BOGIE BEARERS'.
- 06.12.1990** Repair 'BOGIE CLEARANCE'.
- 06.12.1990** Repair 'BOGIE COMPLETE'.
- 06.12.1990** Repair 'BRIDGE PLATE ASSEMBLY'.
- 06.12.1990** Repair 'COMPLETE TRIPLE VALVE 'AF' OR 'TIV'".
- 06.12.1990** Repair 'CONCERTINA (PASS.)'.
- 06.12.1990** Repair 'CONCERTINA (PASS.)'.
- 06.12.1990** Repair 'COUPLER KNUCKLE'.
- 06.12.1990** Repair 'COUPLER KNUCKLE PIN'.
- 06.12.1990** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 06.12.1990** Repair 'END COMPLETE'.
- 06.12.1990** Repair 'VESTIBULE (PASS.)'.
- 06.12.1990** Repair 'VESTIBULE (PASS.)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**BRJ 268**

Details: passenger car 'BRJ 268 S' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$161510

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 89

**Date Built:** 22.10.1969

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE

**BSG Code:** PSPU

Capacity of 32 sleeping

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Return to Service Date:	11.09.1990
Last Lift:	07.12.1984

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- 27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 04.06.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. (C2069)'.
- 10.03.1986** Alteration 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 11.09.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## BRJ 269

Details: passenger car 'BRJ 269 E' in AN 'Mainland Division'.

**Owner:** AN  
**Operator:** C  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 48.7tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$161510  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** NS 89  
**Date Built:** 30.10.1969  
**Operating System:** IP POOL  
**Intended Use:** PASSENGERS  
**Remarks:** ECONOMY CLASS TWINETTE  
**BSG Code:** PSPU

Capacity of 32 sleeping

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Return to Service Date:	19.04.1991
Last Triple Valve:	15.05.1991
Last Lift:	12.01.1982

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- 27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 04.06.1984** Alteration complete 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.
- 10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 07.11.1989** Repair 'WHEEL SET'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 19.04.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 19.04.1991** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 19.04.1991** Repair 'BOGIE CLEARANCE'.
- 19.04.1991** Repair 'BOGIE COMPLETE'.
- 19.04.1991** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 19.04.1991** Repair 'CONCERTINA (PASS.)'.
- 19.04.1991** Repair 'COUPLER COMPLETE'.
- 19.04.1991** Repair 'COUPLER KNUCKLE'.
- 19.04.1991** Repair 'DRAFT GEAR POCKET'.
- 19.04.1991** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 19.04.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 19.04.1991** Repair 'VESTIBULE (PASS.)'.
- 19.04.1991** Repair 'WEAR PLATES & SADDLES'.
- 19.04.1991** Repair 'WHEEL SET'.
- 19.04.1991** Repair 'YOKE COMPLETE'.
- 19.04.1991** Repair 'YOKE PIN'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

### **BRJ 270**

Details: passenger car 'BRJ 270 A' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$161510

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 89

**Date Built:** 27.02.1970

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE

**BSG Code:** PSTU

Capacity of 32 sleeping

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Return to Service Date:	30.07.1992
Due Triple Valve:	27.05.1997
Last Triple Valve:	31.07.1992
Last Lift:	23.03.1982

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**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**04.06.1984** Alteration 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.

**10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.



- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 25.06.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration complete 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 30.07.1992** Repair 'WATER SYSTEM'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FROM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## BRJ 271

Details: passenger car 'BRJ 271 J' in AN 'Mainland Division'.

**Owner:** AN  
**Operator:** C  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 48.7tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$161510  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** NS 89  
**Date Built:** 21.11.1969  
**Operating System:** IP POOL  
**Intended Use:** PASSENGERS  
**Remarks:** ECONOMY CLASS TWINETTE  
**BSG Code:** PSPU

Capacity of 32 sleeping

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Return to Service Date:	29.07.1991
Last Triple Valve:	06.04.1988
Last Brake Cylinder:	05.08.1991
Last Single Car Test:	05.08.1991
Last Lift:	27.09.1982

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- 27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 04.06.1984** Alteration complete 'ALTERATION TO VESTIBLE ENTRANCE FLAPS. (C2069)'.
- 10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 29.07.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 29.07.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 29.07.1991** Repair 'BOGIE BRAKE BLOCKS X92'.
- 29.07.1991** Repair 'BOGIE BRAKE BLOCKS X92'.
- 29.07.1991** Repair 'OTHER BRAKE CYLINDER COMPLETE'.
- 29.07.1991** Repair 'OTHER BRAKE CYLINDER COMPLETE'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOONE' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## BRJ 300

Details: passenger car 'BRJ 300 U' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** P

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.7tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$1000000  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Date Built:** 01.01.1901  
**Operating System:** IP POOL  
**Intended Use:** PASSENGERS  
**Remarks:** ECONOMY CLASS TWINETTE  
**BSG Code:** PSPU

Capacity of 32 sleeping

- 27.08.1982** Alteration complete 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 23.08.1989** Repair 'WHEEL SET'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 04.05.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 04.05.1990** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 04.05.1990** Repair 'BOGIE BEARERS'.
- 04.05.1990** Repair 'BOGIE CLEARANCE'.
- 04.05.1990** Repair 'BOGIE COMPLETE'.
- 04.05.1990** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 04.05.1990** Repair 'CONCERTINA (PASS.)'.
- 04.05.1990** Repair 'COUPLER COMPLETE'.
- 04.05.1990** Repair 'COUPLER INTERNAL LOCKING PARTS'.
- 04.05.1990** Repair 'COUPLER KNUCKLE'.
- 04.05.1990** Repair 'COUPLER KNUCKLE PIN'.
- 04.05.1990** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 04.05.1990** Repair 'END COMPLETE'.

- 04.05.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 04.05.1990** Repair 'YOKE COMPLETE'.
- 20.06.1990** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 20.06.1990** Repair 'AIR CONDITIONER CONDENSOR (PASS.)'.
- 20.06.1990** Repair 'AIR CONDITIONER MOTOR (PASS.)'.
- 20.06.1990** Repair 'BATTERY BOX (PASS.)'.
- 20.06.1990** Repair 'BATTERY CHARGER (PASS.)'.
- 20.06.1990** Repair 'ELECTRICAL CONTROL PANEL (PASS.)'.
- 20.06.1990** Repair 'EVAPORATOR UNIT (PASS.)'.
- 20.06.1990** Repair 'HOT WATER TANK (PASS.)'.
- 20.06.1990** Repair 'LIGHTING (INTERIOR)'.
- 20.06.1990** Repair 'WATER COOLER (PASS.)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 22.01.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 22.01.1992** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 29.10.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 29.10.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 29.10.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 05.11.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 05.11.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 07.12.1993** Repair 'BOGIE COMPLETE'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.
- 26.07.1995** Repair 'VEHICLE CUT FOR SCRAP'.

## **BRJ 301**

- 18.10.1994** Reclassified from passenger car 'BRJ 301 G' to passenger car 'AFC 301 G'.

## **BRJ 302**

Details: passenger car 'BRJ 302 P' in AN 'Mainland Division'.

**Owner:** AN  
**Operator:** C  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 48.7tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$161510  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** NS 89  
**Date Built:** 08.11.1973  
**Operating System:** IP POOL  
**Intended Use:** PASSENGERS  
**Remarks:** ECONOMY CLASS TWINETTE  
**BSG Code:** PSPU

Capacity of 32 sleeping

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Return to Service Date:	20.09.1990
Last Triple Valve:	21.09.1990
Last Lift:	19.09.1991

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- 27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 04.06.1984** Alteration 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. (C2069)'.
- 10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 25.05.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 20.09.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 20.09.1990** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 20.09.1990** Repair 'BOGIE BEARERS'.
- 20.09.1990** Repair 'BOGIE CLEARANCE'.
- 20.09.1990** Repair 'BOGIE COMPLETE'.
- 20.09.1990** Repair 'BRIDGE PLATE ASSEMBLY'.
- 20.09.1990** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 20.09.1990** Repair 'COUPLER KNUCKLE'.
- 20.09.1990** Repair 'COUPLER KNUCKLE PIN'.
- 20.09.1990** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 20.09.1990** Repair 'END COMPLETE'.
- 20.09.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 20.09.1990** Repair 'TOP CENTRE PLATE'.
- 20.09.1990** Repair 'YOKE COMPLETE'.
- 20.09.1990** Repair 'YOKE PIN'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOONE' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**BRJ 303**

Details: passenger car 'BRJ 303 B' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$161510

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 89

**Date Built:** 07.12.1973

**Operating System:** TRANS POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE

**BSG Code:** PSTU

Capacity of 32 sleeping

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Return to Service Date:	19.07.1992
Last Triple Valve:	22.05.1991
Last Lift:	28.02.1989

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**27.08.1982** Alteration complete 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**04.06.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. (C2069)'.

**10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.



- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.10.1989** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN (URNIE URN 7.5 LITRE) AND WATER FILTER TO CONDUCTOR'S COMPARTMENT. ARJ, ARL, ARM, BRG, BRJ PASSENGER CARS. (RS4456)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 04.02.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 04.02.1991** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 04.02.1991** Repair 'BOGIE CLEARANCE'.
- 04.02.1991** Repair 'BOGIE COMPLETE'.
- 04.02.1991** Repair 'BRIDGE PLATE ASSEMBLY'.
- 04.02.1991** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 04.02.1991** Repair 'CONCERTINA (PASS.)'.
- 04.02.1991** Repair 'CONCERTINA (PASS.)'.
- 04.02.1991** Repair 'CONCERTINA (PASS.)'.
- 04.02.1991** Repair 'COUPLER INTERNAL LOCKING PARTS'.
- 04.02.1991** Repair 'COUPLER KNUCKLE'.
- 04.02.1991** Repair 'DRAFT GEAR POCKET'.
- 04.02.1991** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 04.02.1991** Repair 'END COMPLETE'.
- 04.02.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 04.02.1991** Repair 'VESTIBULE (PASS.)'.
- 04.02.1991** Repair 'VESTIBULE (PASS.)'.
- 04.02.1991** Repair 'WHEEL SET'.
- 04.02.1991** Repair 'YOKE COMPLETE'.
- 04.02.1991** Repair 'YOKE PIN'.
- 04.02.1991** Repair 'YOKE SUPPORT PLATE LINER'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 19.07.1992** Repair 'WHEEL SET'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FORM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## **BRJ 912**

Details: passenger car 'BRJ 912 T' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$147830

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 89

**Date Built:** 09.07.1968

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE;I.P.CAR

**BSG Code:** PSPU

Capacity of 32 sleeping

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Return to Service Date:	15.04.1994
Last Lift:	06.08.1982

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- 05.12.1979** Alteration complete 'MODIFICATION OF SHOWER COMPARTMENT DOOR STEP. EXISTING DOOR STEP TO BE RAISED IN HEIGHT BY 12MM. ARJ 940, 941, 944, 945, 973, 984, 985, 986. BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP0679)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.

- 10.12.1979** Alteration complete 'MODIFICATION TO HANDBRAKE. DWG AC 1709B, BC1567C. BRG 969, 972, 974. BRJ 912, 914, 915, 916, 917, 918, 919, 999. DF 930, 934, 935, 964. ER 906, 909, 910, 911. (IP1379)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 20.03.1987** Alteration 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED

- BY IP1087; (IP0687)'.  
**26.08.1987** Alteration 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.  
**22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.  
**09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.  
**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.  
**01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.  
**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.  
**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.  
**31.01.1992** Repair 'WHEEL SET'.  
**10.09.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.  
**10.09.1992** Repair 'BOGIE BRAKE BLOCKS X92'.  
**10.09.1992** Repair 'BOGIE BRAKE BLOCKS X92'.  
**10.09.1992** Repair 'BOGIE CLEARANCE'.  
**10.09.1992** Repair 'BOGIE COMPLETE'.  
**10.09.1992** Repair 'END COMPLETE'.  
**10.09.1992** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.  
**10.09.1992** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.  
**10.09.1992** Repair 'WHEEL SET'.  
**14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.  
**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.  
**29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.  
**03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.  
**04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.  
**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.  
**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES

WITH 'PRYOCONE' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**15.04.1994** Repair 'BOGIE BRAKE BLOCKS X92'.

**15.04.1994** Repair 'BOGIE COMPLETE'.

**15.04.1994** Repair 'OTHER SLACK ADJUSTER COMPLETE'.

## BRJ 914

Details: passenger car 'BRJ 914 Y' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$147830

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 89

**Date Built:** 16.07.1968

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE;I.P.CAR

**BSG Code:** PSPU

Capacity of 32 sleeping

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Return to Service Date:	16.09.1991
Last Triple Valve:	04.03.1992
Last Lift:	19.01.1978

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**05.12.1979** Alteration complete 'MODIFICATION OF SHOWER COMPARTMENT DOOR STEP. EXISTING DOOR STEP TO BE RAISED IN HEIGHT BY 12MM. ARJ 940, 941, 944, 945, 973, 984, 985, 986. BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP0679)'.

**10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.

**10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.

**10.12.1979** Alteration complete 'MODIFICATION TO HANDBRAKE. DWG AC 1709B, BC1567C. BRG 969, 972, 974. BRJ 912, 914, 915, 916, 917, 918, 919, 999. DF 930, 934, 935, 964. ER 906, 909, 910, 911. (IP1379)'.

**09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.

- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 27.08.1982** Alteration complete 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL

NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.

- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 02.03.1991** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 16.09.1991** Repair 'CONCERTINA (PASS.)'.
- 16.09.1991** Repair 'VESTIBULE (PASS.)'.
- 16.09.1991** Repair 'VESTIBULE (PASS.)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## BRJ 915

Details: passenger car 'BRJ 915 A' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$147830

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 89

**Date Built:** 14.08.1968

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE;I.P.CAR

**BSG Code:** PSPU

Capacity of 32 sleeping

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Return to Service Date:	06.04.1994
Last Single Car Test:	04.01.1994
Last Lift:	21.02.1977

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- 05.12.1979** Alteration complete 'MODIFICATION OF SHOWER COMPARTMENT DOOR STEP. EXISTING DOOR STEP TO BE RAISED IN HEIGHT BY 12MM. ARJ 940, 941, 944, 945, 973, 984, 985, 986. BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP0679)'.
- 10.12.1979** Alteration 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO HANDBRAKE. DWG AC 1709B, BC1567C. BRG 969, 972, 974. BRJ 912, 914, 915, 916, 917, 918, 919, 999. DF 930, 934, 935, 964. ER 906, 909, 910, 911. (IP1379)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.



- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

- 20.08.1991** Repair 'WHEEL SET'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 18.08.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 18.08.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 13.10.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 13.10.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 04.11.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 04.11.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 10.11.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 13.12.1993** Repair 'BOGIE BRAKE BLOCKS X92'.
- 13.12.1993** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 22.12.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 22.12.1993** Repair 'BRAKE CONTROL PIPE'.
- 06.01.1994** Repair 'BOGIE BRAKE BLOCKS X92'.
- 06.01.1994** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 11.02.1994** Repair 'BOGIE COMPLETE'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.
- 23.02.1994** Repair 'BOGIE COMPLETE'.
- 06.04.1994** Repair 'BOGIE BRAKE BLOCKS X92'.
- 06.04.1994** Repair 'OTHER SLACK ADJUSTER COMPLETE'.

## **BRJ 916**

Details: passenger car 'BRJ 916 J' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S**Bogie Configuration:** 2X2**Original Cost:** \$147830**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate**Diagram Book Page No.:** NS 89**Date Built:** 24.07.1968**Operating System:** IP POOL**Intended Use:** PASSENGERS**Remarks:** ECONOMY CLASS TWINETTE;I.P.CAR**BSG Code:** PSPU

Capacity of 32 sleeping

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Return to Service Date:	31.01.1989
Last Lift:	02.03.1979

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- 05.12.1979** Alteration complete 'MODIFICATION OF SHOWER COMPARTMENT DOOR STEP. EXISTING DOOR STEP TO BE RAISED IN HEIGHT BY 12MM. ARJ 940, 941, 944, 945, 973, 984, 985, 986. BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP0679)'.
- 10.12.1979** Alteration 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO HANDBRAKE. DWG AC 1709B, BC1567C. BRG 969, 972, 974. BRJ 912, 914, 915, 916, 917, 918, 919, 999. DF 930, 934, 935, 964. ER 906, 909, 910, 911. (IP1379)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ

- 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961,  
962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914  
915,916,917,918,919,999. (IP0481)'.
- 27.08.1982** Alteration complete 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C  
189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921,  
922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912,  
914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER  
906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C  
173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961,  
962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,  
914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER  
TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I.  
ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF  
APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS.  
CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF  
STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 &  
3C-111 (IP0287)'.
- 05.02.1987** Alteration 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE  
CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE  
DRAWING 2C-190 (IP0387)'.
- 22.05.1987** Alteration complete 'REPLACE EXISTING SHOWER ROSE WITH  
'CONSERVA' LOW PRESSURE SHOWER ROSE NO. 56/203 TO ALL PASSENGER  
CARS WHICH ARE FITTED WITH SHOWER COMPART- MENTS. (RS4201)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER  
ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED  
BY IP1087; (IP0687)'.
- 26.08.1987** Alteration 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP  
PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP  
PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL  
NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS.  
(IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT  
INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 10.12.1987** Alteration 'REMOVE 'CONSERVA' SHOWER ROSE, FIT IN-LINE  
RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. THIS ALTERATION  
SUPERCEDES ALTERATION RS4201. ALL PASSENGER CARS WITH SHOWER  
COMPARTMENTS (EXCEPT I.P. CARS). (RS4247)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO  
EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM  
COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL  
PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration complete 'FIT EXISTING SHOWER MIXING VALVE WITH  
CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER  
COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## BRJ 917

Details: passenger car 'BRJ 917 S' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$147830

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 89

**Date Built:** 28.08.1968

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE;I.P.CAR

**BSG Code:** PSPU

Capacity of 32 sleeping

Return to Service Date:	13.12.1991
Last Triple Valve:	21.02.1992
Last Brake Cylinder:	31.05.1989
Last Lift:	30.10.1979

- 05.12.1979** Alteration complete 'MODIFICATION OF SHOWER COMPARTMENT DOOR STEP. EXISTING DOOR STEP TO BE RAISED IN HEIGHT BY 12MM. ARJ 940, 941, 944, 945, 973, 984, 985, 986. BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP0679)'.
- 10.12.1979** Alteration 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO HANDBRAKE. DWG AC 1709B, BC1567C. BRG 969, 972, 974. BRJ 912, 914, 915, 916, 917, 918, 919, 999. DF 930, 934, 935, 964. ER 906, 909, 910, 911. (IP1379)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG

969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911.  
(IP0184)'.

- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 22.05.1987** Alteration complete 'REPLACE EXISTING SHOWER ROSE WITH 'CONSERVA' LOW PRESSURE SHOWER ROSE NO. 56/203 TO ALL PASSENGER CARS WHICH ARE FITTED WITH SHOWER COMPARTMENTS. (RS4201)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 10.12.1987** Alteration 'REMOVE 'CONSERVA' SHOWER ROSE, FIT IN-LINE RESTICTOR AND REFIT ORIGINAL SHOWER ROSE. THIS ALTERATION SUPERCEDES ALTERATION RS4201. ALL PASSENGER CARS WITH SHOWER COMPARTMENTS (EXCEPT I.P. CARS). (RS4247)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 05.09.1990** Repair 'WHEEL SET'.
- 06.09.1990** Repair 'WHEEL SET'.
- 13.12.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 13.12.1991** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 13.12.1991** Repair 'BOGIE CLEARANCE'.
- 13.12.1991** Repair 'BOGIE COMPLETE'.

- 13.12.1991** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 13.12.1991** Repair 'END COMPLETE'.
- 13.12.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 13.12.1991** Repair 'VESTIBULE (PASS.)'.
- 13.12.1991** Repair 'WHEEL SET'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## **BRJ 918**

Details: passenger car 'BRJ 918 E' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.7tonne

**Current Gauge:** Broad

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$147830

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 89

**Date Built:** 14.08.1968

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE;I.P.CAR

**BSG Code:** PSPU

Capacity of 32 sleeping



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Return to Service Date:	27.06.1991
Last Lift:	15.08.1979

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- 05.12.1979** Alteration complete 'MODIFICATION OF SHOWER COMPARTMENT DOOR STEP. EXISTING DOOR STEP TO BE RAISED IN HEIGHT BY 12MM. ARJ 940, 941, 944, 945, 973, 984, 985, 986. BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP0679)'.
- 10.12.1979** Alteration 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO HANDBRAKE. DWG AC 1709B, BC1567C. BRG 969, 972, 974. BRJ 912, 914, 915, 916, 917, 918, 919, 999. DF 930, 934, 935, 964. ER 906, 909, 910, 911. (IP1379)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 27.08.1982** Alteration complete 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I.

ITEMS 6,7,8. ALL CARS. (IP0284)'.

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 08.05.1991** Alteration 'WHEELS TO CHANGE A/C CONDEMNED. (BRJ918)'.
- 27.06.1991** Repair 'WHEEL SET'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11.

(RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCONE' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## BRJ 919

Details: passenger car 'BRJ 919 N' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$147830

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 89

**Date Built:** 20.08.1968

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS TWINETTE;I.PCAR

**BSG Code:** PSPU

Capacity of 32 sleeping

Return to Service Date:	12.06.1992
Last Lift:	03.06.1980

**05.12.1979** Alteration complete 'MODIFICATION OF SHOWER COMPARTMENT DOOR STEP. EXISTING DOOR STEP TO BE RAISED IN HEIGHT BY 12MM. ARJ 940, 941, 944, 945, 973, 984, 985, 986. BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP0679)'.

**10.12.1979** Alteration 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.

**10.12.1979** Alteration 'MODIFICATION TO HANDBRAKE. DWG AC 1709B, BC1567C. BRG 969, 972, 974. BRJ 912, 914, 915, 916, 917, 918, 919, 999. DF 930, 934, 935, 964. ER 906, 909, 910, 911. (IP1379)'.

**10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.

**09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.

- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.
- 20.08.1980** Alteration 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration complete 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 22.05.1987** Alteration complete 'REPLACE EXISTING SHOWER ROSE WITH 'CONSERVA' LOW PRESSURE SHOWER ROSE NO. 56/203 TO ALL PASSENGER CARS WHICH ARE FITTED WITH SHOWER COMPART- MENTS. (RS4201)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP

PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.

- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 10.12.1987** Alteration 'REMOVE 'CONSERVA' SHOWER ROSE, FIT IN-LINE RESTICTOR AND REFIT ORIGINAL SHOWER ROSE. THIS ALTERATION SUPERCEDES ALTERATION RS4201. ALL PASSENGER CARS WITH SHOWER COMPARTMENTS (EXCEPT I.P. CARS). (RS4247)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 12.06.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 12.06.1992** Repair 'BOGIE BRAKE BLOCKS X92'.
- 12.06.1992** Repair 'BOGIE COMPLETE'.
- 12.06.1992** Repair 'END COMPLETE'.
- 12.06.1992** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**BRJ 999**

Details: passenger car 'BRJ 999 X' in AN 'Mainland Division'.

**Owner:** AN  
**Operator:** C  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 48.7tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$147830  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** NS 89  
**Date Built:** 05.07.1973  
**Operating System:** IP POOL  
**Intended Use:** PASSENGERS  
**Remarks:** ECONOMY CLASS TWINETTE;I.P.CAR  
**BSG Code:** PSPU

Capacity of 32 sleeping

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Return to Service Date:	01.03.1990
Last Lift:	21.05.1982

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- 05.12.1979** Alteration complete 'MODIFICATION OF SHOWER COMPARTMENT DOOR STEP. EXISTING DOOR STEP TO BE RAISED IN HEIGHT BY 12MM. ARJ 940, 941, 944, 945, 973, 984, 985, 986. BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP0679)'.
- 10.12.1979** Alteration 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration 'MODIFICATION TO CHILLED WATER TANK. DWG 2C 115A ARJ 940, 941, 944, 945, 973, 984, 985, 986. ARL 920, 921, 922, 923, 925, 947, 961, 962, 963, 990, 992. ARM 951, 952, 953, 954, 987, BRJ 912, 914, 915, 916, 917, 918, 919, 999. (IP1079)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO HANDBRAKE. DWG AC 1709B, BC1567C. BRG 969, 972, 974. BRJ 912, 914, 915, 916, 917, 918, 919, 999. DF 930, 934, 935, 964. ER 906, 909, 910, 911. (IP1379)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0280)'.
- 12.08.1980** Alteration complete 'INSTALLATION OF EMERGENCY TOOL BOX IN CONDUCTORS COMPARTMENT. DWGS. 2C 140, 2C 141, 2C 144. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999. (IP0680)'.

- 20.08.1980** Alteration 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 30.09.1981** Alteration complete 'INSTALLATION OF ELECTRIC HOT WATER URN IN CONDUCTORS COMPARTMENT. DWG.1C 179. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914 915,916,917,918,919,999. (IP0481)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 15.05.1984** Alteration 'ALTERATION TO VESTIBULE ENTRANCE FLAPS. DWG. 2C 173. ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961, 962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912, 914,915,916,917,918,919,999, ER 906,909,910,911. (IP0184)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration 'FIT TELESCOPIC GAS SPRING TO ENTRANCE FLAP OF STAINLESS STEEL PASSENGER CARS. APPLICABLE DRAWINGS 2C-182 & 3C-111 (IP0287)'.
- 05.02.1987** Alteration 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 11.06.1987** Alteration 'FIT SHOWER ROSE 'CONSERVA' LOW PRESSURE SHOWER ROSE PART NO. 56/203. WHEN REQUIRED TO BE REPLACED. ;SUPERSEDED BY IP1087; (IP0687)'.
- 26.08.1987** Alteration 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 09.12.1987** Alteration 'REMOVAL ;CONSERVA; SHOWER ROSE IP MOD 6/87 FIT INLINE FLOW RESTRICTOR AND REFIT ORIGINAL SHOWER ROSE. (IP1087)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME

BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.

**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

**01.03.1990** Repair 'WHEEL SET'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.

**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

**29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.

**03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## 2.60 Passengers Vehicle classification starting with 'BRS'

### BRS 227

Details: passenger car 'BRS 227 E' in AN 'Mainland Division'.

**Owner:** V/LINE

**Operator:** D

**Length Over Headstocks:** 21.9m

**Tare Weight:** 51tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1994

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS COACH.

**BSG Code:** PBME



Capacity of 48 passengers

Capacity of 48 passengers

### **BRS 230**

Details: passenger car 'BRS 230 S' in AN 'Mainland Division'.

**Owner:** V/LINE

**Operator:** D

**Length Over Headstocks:** 21.9m

**Tare Weight:** 51tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1994

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS COACH.

**BSG Code:** PBME

Capacity of 48 passengers

Capacity of 48 passengers

## **2.61 Passengers Vehicle classification starting with 'BSR'**

### **BSR 2031**

Details: passenger car 'BSR 2031 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** D

**Length Over Headstocks:** 20.6m

**Tare Weight:** 40tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1901

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**BSG Code:** PSSC

Capacity of 48 passengers

## **2.62 Passengers Vehicle classification starting with 'BV'**

### **BV 485**

Details: passenger car 'BV 485 W' in AN 'Mainland Division'.

**Owner:** SRA/NSW

**Operator:** C

**Length Over Headstocks:** 23m

**Tare Weight:** 38tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Date Built:** 01.01.1988

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** INCORRECT DATA

**BSG Code:** PSSE

Capacity of 58 passengers

## **2.63 Passengers Vehicle classification starting with 'BW'**

### **BW 63**

Details: passenger car 'BW 63 X' in AN 'Mainland Division'.

**Owner:** VICTORIA

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 50.2tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 23.03.1951

**Operating System:** V/LINE

**Intended Use:** PASSENGERS

**Remarks:** NAMED 63BW

**BSG Code:** PBSS

Capacity of 20 sleeping

## **2.64 Passengers Vehicle classification starting with 'BZ'**

### **BZ 265**

Details: passenger car 'BZ 265 A' in AN 'Mainland Division'.

**Owner:** V/LINE

**Operator:** C

**Length Over Headstocks:** 21.9m

**Tare Weight:** 51tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1990

**Operating System:** V/LINE

**Intended Use:** PASSENGERS

**BSG Code:** AAAA

Capacity of 68 passengers

## **2.65 Passengers Vehicle classification starting with 'BZS'**

### **BZS 271**

Details: passenger car 'BZS 271 G' in AN 'Mainland Division'.

**Owner:** V/LINE

**Operator:** C

**Length Over Headstocks:** 21.9m

**Tare Weight:** 50tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1980

**Operating System:** V/LINE

**Intended Use:** PASSENGERS

**BSG Code:** PBSE

Capacity of 64 passengers

### **BZS 273**

Details: passenger car 'BZS 273 B' in AN 'Mainland Division'.

**Owner:** V/LINE

**Operator:** D

**Length Over Headstocks:** 21.9m

**Tare Weight:** 51tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1992

**Operating System:** V/LINE

**Intended Use:** PASSENGERS

**BSG Code:** PBSE

Capacity of 64 passengers

### **BZS 274**

Details: passenger car 'BZS 274 K' in AN 'Mainland Division'.

**Owner:** V/LINE

**Operator:** P

**Length Over Headstocks:** 21.9m

**Tare Weight:** 51tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1980

**Operating System:** V/LINE

**Intended Use:** PASSENGERS

**BSG Code:** PBSE

Capacity of 64 passengers

### **BZS 275**

Details: passenger car 'BZS 275 T' in AN 'Mainland Division'.

**Owner:** V/LINE

**Operator:** D

**Length Over Headstocks:** 21.9m

**Tare Weight:** 51tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1993

**Operating System:** V/LINE

**Intended Use:** PASSENGERS

**Remarks:** V/LINE SALOON CAR

**BSG Code:** PBSE

Capacity of 64 passengers

**BZS 276**

Details: passenger car 'BZS 276 F' in AN 'Mainland Division'.

**Owner:** V/LINE

**Operator:** C

**Length Over Headstocks:** 21.9m

**Tare Weight:** 50tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1980

**Operating System:** V/LINE

**Intended Use:** PASSENGERS

**BSG Code:** PBSE

Capacity of 64 passengers

## **2.66 Passengers Vehicle classification starting with 'C'**

### **C 1**

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

## **2.67 Passengers Vehicle classification starting with 'CAR'**

### **CARE**

Details: passenger car 'CARE K' in AN 'Mainland Division'.

**Owner:** VIC

**Length Over Headstocks:** 13.8m

**Tare Weight:** 30tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1920

**Operating System:** V/LINE

**Intended Use:** PASSENGER

**Remarks:** CAREY

**BSG Code:** PBSZ

Capacity of 30 tonnes

## **2.68 Passengers Vehicle classification starting with 'CB'**

### **CB 1**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

### **CB 2**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

### **CB 3**

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

## **2.69 Passengers Vehicle classification starting with 'CDF'**

### **CDF 225**

Details: passenger car 'CDF 225 M' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 44.1tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$120690

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 37

**Date Built:** 11.07.1969

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** CAFE-CLUB CAR

**BSG Code:** PSPK

Capacity of 54 passengers

Return to Service Date:	06.08.1993
Last Triple Valve:	31.07.1992
Last Lift:	11.08.1983

- 27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 08.02.1983** Alteration complete 'MANUFACTURE AND INSTALLATION OF DISPLAY CABINET. (01s83)'.
- 10.09.1985** Alteration complete 'MODIFICATION TO KITCHEN COMPARTMENT INCORPORATING THE FITTING OF UPRIGHT FREEZER, MICROWAVE OVEN AND PIE WARMER. CDF 225, 226, 227 AND 265. (RS4067)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration complete 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 10.07.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration complete 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

- 18.03.1992** Repair 'WHEEL SET'.
- 30.07.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 30.07.1992** Repair 'BOGIE BEARERS'.
- 30.07.1992** Repair 'BOGIE CLEARANCE'.
- 30.07.1992** Repair 'BOGIE COMPLETE'.
- 30.07.1992** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 30.07.1992** Repair 'CONCERTINA (PASS.)'.
- 30.07.1992** Repair 'CONCERTINA (PASS.)'.
- 30.07.1992** Repair 'COUPLER KNUCKLE'.
- 30.07.1992** Repair 'COUPLER KNUCKLE PIN'.
- 30.07.1992** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 30.07.1992** Repair 'END COMPLETE'.
- 30.07.1992** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 30.07.1992** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 30.07.1992** Repair 'VESTIBULE (PASS.)'.
- 30.07.1992** Repair 'WEAR PLATES & SADDLES'.
- 30.07.1992** Repair 'WHEEL SET'.
- 30.07.1992** Repair 'YOKE COMPLETE'.
- 30.07.1992** Repair 'YOKE PIN'.
- 30.07.1992** Repair 'YOKE SUPPORT PLATE LINER'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration complete 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 06.08.1993** Repair 'A/C PIPEWORK/ANNACONDAS'.
- 06.08.1993** Repair 'BOGIE CLEARANCE'.
- 06.08.1993** Repair 'ELECTRICAL CABLING'.
- 06.08.1993** Repair 'EVAPORATOR UNIT (PASS.)'.
- 06.08.1993** Repair 'FLOOR SHEETING'.
- 06.08.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 06.08.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 06.08.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 06.08.1993** Repair 'REFRIG & AIR CON GAUGES'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.
- 04.03.1994** Alteration 'REMOVE EXISTING OPEN TYPE COMPRESSOR AND MOTOR FOR GALLEY REFRIGERATOR FROM UNDER CAR. INSTALL NEW SINGLE PHASE CONDENSING UNIT, REWIRE AND RETUBE TO SUIT. REMOVE



EXISTING THREE PHASE CIRCUIT BREAKER AND CONTACTOR. INSTALL NEW 16A SINGLE PHASE CIRCUIT BREAKER. REWIRE TO SUIT. ALL 'CDF' MATILDA CARS. (RS4846)'.

## CDF 226

Details: passenger car 'CDF 226 V' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 44.1tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$120690

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 37

**Date Built:** 17.07.1969

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** CAFE-CLUB CAR

**BSG Code:** PSPK

Capacity of 54 passengers

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Return to Service Date:	06.10.1992
Last Triple Valve:	06.10.1992
Last Single Car Test:	29.07.1988
Last Lift:	04.07.1980

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**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**08.02.1983** Alteration complete 'MANUFACTURE AND INSTALLATION OF DISPLAY CABINET. (01s83)'.

**10.09.1985** Alteration complete 'MODIFICATION TO KITCHEN COMPARTMENT INCORPORATING THE FITTING OF UPRIGHT FREEZER, MICROWAVE OVEN AND PIE WARMER. CDF 225, 226, 227 AND 265. (RS4067)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

- 28.01.1988** Alteration complete 'REFURBISH CAFETERIA END OF 1 'CDF' LOUNGE/CAFETERIA CAR TO INCLUDE LARGER SERVERY AND STORAGE AREA. (RS4250)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 19.02.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 05.09.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration complete 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 06.10.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 06.10.1992** Repair 'BOGIE CLEARANCE'.
- 06.10.1992** Repair 'BOGIE COMPLETE'.
- 06.10.1992** Repair 'BRIDGE PLATE ASSEMBLY'.
- 06.10.1992** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 06.10.1992** Repair 'CONCERTINA (PASS.)'.
- 06.10.1992** Repair 'CONCERTINA (PASS.)'.
- 06.10.1992** Repair 'COUPLER KNUCKLE'.
- 06.10.1992** Repair 'COUPLER KNUCKLE PIN'.
- 06.10.1992** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 06.10.1992** Repair 'END COMPLETE'.
- 06.10.1992** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 06.10.1992** Repair 'WHEEL SET'.
- 06.10.1992** Repair 'YOKE COMPLETE'.
- 06.10.1992** Repair 'YOKE PIN'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11.

(RS4812)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**04.03.1994** Alteration 'REMOVE EXISTING OPEN TYPE COMPRESSOR AND MOTOR FOR GALLEY REFRIGERATOR FROM UNDER CAR. INSTALL NEW SINGLE PHASE CONDENSING UNIT, REWIRE AND RETUBE TO SUIT. REMOVE EXISTING THREE PHASE CIRCUIT BREAKER AND CONTACTOR. INSTALL NEW 16A SINGLE PHASE CIRCUIT BREAKER. REWIRE TO SUIT. ALL 'CDF' MATILDA CARS. (RS4846)'.

## CDF 227

Details: passenger car 'CDF 227 H' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 44.1tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$120690

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 37

**Date Built:** 24.07.1969

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** CAFE-CLUB CAR

**BSG Code:** PSPK

Capacity of 54 passengers

Return to Service Date:	01.07.1992
Last Lift:	15.11.1985

**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**08.02.1983** Alteration complete 'MANUFACTURE AND INSTALLATION OF DISPLAY CABINET. (01s83)'.

**10.09.1985** Alteration complete 'MODIFICATION TO KITCHEN COMPARTMENT INCORPORATING THE FITTING OF UPRIGHT FREEZER, MICROWAVE OVEN AND PIE WARMER. CDF 225, 226, 227 AND 265. (RS4067)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 29.08.1989** Alteration 'MANUFACTURE AND INSTAL LOCKABLE DIVIDING DOORS IN CORRIDOR OF 'CDF' LOUNGE/CAFETERIA CARS. CDF (RS4447)'.
- 24.05.1990** Alteration 'REFURBISHMENT OF ONE (1) CLASS 'CDF' LOUNGE/CAFETERIA CAR FOR GHAN CONSIST. CDF 227. (RS4510)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 10.07.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 10.07.1990** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 10.07.1990** Repair 'BOGIE BEARERS'.
- 10.07.1990** Repair 'BOGIE CLEARANCE'.
- 10.07.1990** Repair 'BOGIE COMPLETE'.
- 10.07.1990** Repair 'BRIDGE PLATE ASSEMBLY'.
- 10.07.1990** Repair 'CONCERTINA (PASS.)'.
- 10.07.1990** Repair 'CONCERTINA (PASS.)'.
- 10.07.1990** Repair 'COUPLER KNUCKLE'.
- 10.07.1990** Repair 'COUPLER KNUCKLE PIN'.
- 10.07.1990** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 10.07.1990** Repair 'END COMPLETE'.
- 10.07.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 10.07.1990** Repair 'TOP CENTRE PLATE'.
- 10.07.1990** Repair 'VESTIBULE (PASS.)'.
- 10.07.1990** Repair 'WEAR PLATES & SADDLES'.
- 10.07.1990** Repair 'YOKE COMPLETE'.
- 10.07.1990** Repair 'YOKE PIN'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 01.07.1992** Repair 'WHEEL SET'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING

SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.

**03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**04.03.1994** Alteration 'REMOVE EXISTING OPEN TYPE COMPRESSOR AND MOTOR FOR GALLEY REFRIGERATOR FROM UNDER CAR. INSTALL NEW SINGLE PHASE CONDENSING UNIT, REWIRE AND RETUBE TO SUIT. REMOVE EXISTING THREE PHASE CIRCUIT BREAKER AND CONTACTOR. INSTALL NEW 16A SINGLE PHASE CIRCUIT BREAKER. REWIRE TO SUIT. ALL 'CDF' MATILDA CARS. (RS4846)'.

## CDF 265

**01.05.1989** Reclassified from passenger car 'CDF 265 V' to passenger car 'AOB 265 G'.

## CDF 924

Details: passenger car 'CDF 924 G' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 44.1tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$118980

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 37

**Date Built:** 24.06.1969

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** CAFE-CLUB CAR;I.P.CAR

**BSG Code:** PSPK

Capacity of 54 passengers

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Return to Service Date:	30.07.1993
Last Triple Valve:	02.08.1993
Last Lift:	22.12.1977

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- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP1279)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 25.06.1982** Alteration complete 'INSTALLATION OF HINGED WALL CLOCK (BATTERY OPERATED). AFC 936,937,938,939. CDF 924,928,929,966. (IP0682)'.
- 27.08.1982** Alteration complete 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 04.03.1985** Alteration complete 'MODIFICATION TO KITCHEN COMPARTMENT. DWGS.1C 109, 2C 176. CDF 924,928,929,966. (IP0185)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration complete 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

- 27.03.1991** Repair 'WHEEL SET'.
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration complete 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 30.07.1993** Repair 'A/C PIPEWORK/ANNACONDAS'.
- 30.07.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 30.07.1993** Repair 'BOGIE BEARERS'.
- 30.07.1993** Repair 'BOGIE BEARERS'.
- 30.07.1993** Repair 'BOGIE CLEARANCE'.
- 30.07.1993** Repair 'BOGIE COMPLETE'.
- 30.07.1993** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 30.07.1993** Repair 'CONCERTINA (PASS.)'.
- 30.07.1993** Repair 'COUPLER KNUCKLE'.
- 30.07.1993** Repair 'COUPLER KNUCKLE PIN'.
- 30.07.1993** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 30.07.1993** Repair 'ELECTRICAL CABLING'.
- 30.07.1993** Repair 'END COMPLETE'.
- 30.07.1993** Repair 'FLOOR SHEETING'.
- 30.07.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 30.07.1993** Repair 'HOT WATER TANK (PASS.)'.
- 30.07.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 30.07.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 30.07.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 30.07.1993** Repair 'REFRIG & AIR CON GAUGES'.
- 30.07.1993** Repair 'WEAR PLATES & SADDLES'.
- 30.07.1993** Repair 'YOKE PIN'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.
- 04.03.1994** Alteration 'REMOVE EXISTING OPEN TYPE COMPRESSOR AND MOTOR FOR GALLEY REFRIGERATOR FROM UNDER CAR. INSTALL NEW SINGLE PHASE CONDENSING UNIT, REWIRE AND RETUBE TO SUIT. REMOVE EXISTING THREE PHASE CIRCUIT BREAKER AND CONTACTOR. INSTALL NEW 16A SINGLE PHASE CIRCUIT BREAKER. REWIRE TO SUIT. ALL 'CDF' MATILDA CARS. (RS4846)'.

**CDF 928**

Details: passenger car 'CDF 928 T' in AN 'Mainland Division'.

**Owner:** AN  
**Operator:** C  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 44.1tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$118980  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** NS 37  
**Date Built:** 15.08.1969  
**Operating System:** TRANS POOL  
**Intended Use:** PASSENGERS  
**Remarks:** 'SIZZLER' CAFE-CLUB CAR;I.PCAR  
**BSG Code:** PSTB

Capacity of 54 passengers

Return to Service Date:	01.05.1992
Last Triple Valve:	04.05.1992
Last Lift:	17.11.1982

- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP1279)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DF, ER, HGM, HM. (IP0280)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 25.06.1982** Alteration complete 'INSTALLATION OF HINGED WALL CLOCK (BATTERY OPERATED). AFC 936,937,938,939. CDF 924,928,929,966. (IP0682)'.
- 27.08.1982** Alteration complete 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.



- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 04.03.1985** Alteration complete 'MODIFICATION TO KITCHEN COMPARTMENT. DWGS.1C 109, 2C 176. CDF 924,928,929,966. (IP0185)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 29.08.1989** Alteration complete 'MANUFACTURE AND INSTAL LOCKABLE DIVIDING DOORS IN CORRIDOR OF 'CDF' LOUNGE/CAFETERIA CARS. CDF (RS4447)'.
- 08.01.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration complete 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 24.07.1990** Repair 'WHEEL SET'.
- 01.05.1991** Repair 'END HOSE'.
- 15.01.1992** Alteration complete 'UPGRADE CDF 928 AND CONVERT TO 'SIZZLER' (STEAK & SALAD) CAR ACCORDING TO CONSULTANT'S DESIGNS. CDF 928. (RS4671)'.
- 01.05.1992** Repair 'ELECTRICAL CABLING'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS.

INSTALL EARTH WIRE FORM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**04.03.1994** Alteration 'REMOVE EXISTING OPEN TYPE COMPRESSOR AND MOTOR FOR GALLEY REFRIGERATOR FROM UNDER CAR. INSTALL NEW SINGLE PHASE CONDENSING UNIT, REWIRE AND RETUBE TO SUIT. REMOVE EXISTING THREE PHASE CIRCUIT BREAKER AND CONTACTOR. INSTALL NEW 16A SINGLE PHASE CIRCUIT BREAKER. REWIRE TO SUIT. ALL 'CDF' MATILDA CARS. (RS4846)'.

## **CDF 929**

Details: passenger car 'CDF 929 F' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 44.1tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$118980

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 37

**Date Built:** 18.09.1969

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** CAFE-CLUB CAR;I.P.CAR

**BSG Code:** PSPK

Capacity of 54 passengers

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Return to Service Date:	10.09.1993
Last Triple Valve:	06.10.1993
Last Lift:	15.05.1985

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**10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.

**09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.

**09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0280)'.

**20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC

936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL  
920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG  
969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF  
927,930,934,935,964, ER 906,909,910,911. (IP0880)'.

- 25.06.1982** Alteration complete 'INSTALLATION OF HINGED WALL CLOCK  
(BATTERY OPERATED). AFC 936,937,938,939. CDF 924,928,929,966. (IP0682)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC  
936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921,  
922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912,  
914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER  
906,909,910,911. (IP0782)'.
- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON  
WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC  
12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 04.03.1985** Alteration complete 'MODIFICATION TO KITCHEN COMPARTMENT.  
DWGS.1C 109, 2C 176. CDF 924,928,929,966. (IP0185)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF  
APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS.  
CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE  
CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX.  
APPLICABLE DRAWING 2C-190 (IP0387)'.
- 26.08.1987** Alteration 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP  
PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS ON  
IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND  
SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER  
CARS. (IP0987)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO  
EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM  
COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL  
PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS  
OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS.  
(RS4420)'.
- 01.03.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS.  
ALL PASSENGER CARS. (RS4518)'.
- 13.08.1991** Repair 'WHEEL SET'.
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT  
SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration complete 'ON STAINLESS STEEL PASSENGER CARS (IP &  
GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR  
CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK.  
(RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING  
SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING  
C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP'

PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

- 04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 10.09.1993** Repair 'A/C PIPEWORK/ANNACONDAS'.
- 10.09.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 10.09.1993** Repair 'BOGIE BEARERS'.
- 10.09.1993** Repair 'BOGIE BEARERS'.
- 10.09.1993** Repair 'BOGIE CLEARANCE'.
- 10.09.1993** Repair 'BOGIE COMPLETE'.
- 10.09.1993** Repair 'BRANCH PIPE'.
- 10.09.1993** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 10.09.1993** Repair 'CONCERTINA (PASS.)'.
- 10.09.1993** Repair 'COUPLER INTERNAL LOCKING PARTS'.
- 10.09.1993** Repair 'COUPLER KNUCKLE PIN'.
- 10.09.1993** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 10.09.1993** Repair 'END COMPLETE'.
- 10.09.1993** Repair 'END FRAME MEMBER'.
- 10.09.1993** Repair 'FLOOR SHEETING'.
- 10.09.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 10.09.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 10.09.1993** Repair 'REFRIG & AIR CON GAUGES'.
- 10.09.1993** Repair 'YOKE PIN'.
- 10.09.1993** Repair 'YOKE SUPPORT PLATE LINER'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCONE' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.
- 04.03.1994** Alteration 'REMOVE EXISTING OPEN TYPE COMPRESSOR AND MOTOR FOR GALLEY REFRIGERATOR FROM UNDER CAR. INSTALL NEW SINGLE PHASE CONDENSING UNIT, REWIRE AND RETUBE TO SUIT. REMOVE EXISTING THREE PHASE CIRCUIT BREAKER AND CONTACTOR. INSTALL NEW 16A SINGLE PHASE CIRCUIT BREAKER. REWIRE TO SUIT. ALL 'CDF' MATILDA CARS. (RS4846)'.

## **CDF 966**

Details: passenger car 'CDF 966 K' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 44.1tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$118980

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 37

**Date Built:** 23.09.1969**Operating System:** IP POOL**Intended Use:** PASSENGERS**Remarks:** CAFE-CLUB CAR;I.P.CAR**BSG Code:** PSPK

Capacity of 54 passengers

Return to Service Date:	11.03.1994
Last Triple Valve:	19.10.1989
Last Lift:	10.11.1978

- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP1279)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 25.06.1982** Alteration complete 'INSTALLATION OF HINGED WALL CLOCK (BATTERY OPERATED). AFC 936,937,938,939. CDF 924,928,929,966. (IP0682)'.
- 27.08.1982** Alteration complete 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 04.03.1985** Alteration complete 'MODIFICATION TO KITCHEN COMPARTMENT. DWGS.1C 109, 2C 176. CDF 924,928,929,966. (IP0185)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.

- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 22.08.1989** Alteration complete 'REFURBISHMENT OF ONE 'CDF' LOUNGE/CAFETERIA CAR. CDF - 966. (RS4446)'.
- 16.10.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 16.10.1989** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 16.10.1989** Repair 'BOGIE CLEARANCE'.
- 16.10.1989** Repair 'BOGIE COMPLETE'.
- 16.10.1989** Repair 'BRIDGE PLATE ASSEMBLY'.
- 16.10.1989** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 16.10.1989** Repair 'CONCERTINA (PASS.)'.
- 16.10.1989** Repair 'CONCERTINA (PASS.)'.
- 16.10.1989** Repair 'COUPLER KNUCKLE'.
- 16.10.1989** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 16.10.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 16.10.1989** Repair 'VESTIBULE (PASS.)'.
- 20.02.1990** Repair 'COLD WATER TANK (PASS.)'.
- 20.02.1990** Repair 'FLOOR CARPET'.
- 20.02.1990** Repair 'FLOOR SHEETING'.
- 20.02.1990** Repair 'HOT WATER TANK (PASS.)'.
- 20.02.1990** Repair 'INTERIOR FURBISHINGS (PASS.)'.
- 20.02.1990** Repair 'SAFETY EQUIPMENT (PASS)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 15.11.1991** Repair 'WHEEL SET'.
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration complete 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration complete 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO.

A0/C8-11. (RS4812)'.  
 17.02.1994 Alteration complete 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.  
 04.03.1994 Alteration 'REMOVE EXISTING OPEN TYPE COMPRESSOR AND MOTOR FOR GALLEY REFRIGERATOR FROM UNDER CAR. INSTALL NEW SINGLE PHASE CONDENSING UNIT, REWIRE AND RETUBE TO SUIT. REMOVE EXISTING THREE PHASE CIRCUIT BREAKER AND CONTACTOR. INSTALL NEW 16A SINGLE PHASE CIRCUIT BREAKER. REWIRE TO SUIT. ALL 'CDF' MATILDA CARS. (RS4846)'.  
 11.03.1994 Repair 'A/C AIR FILTRATION'.  
 11.03.1994 Repair 'A/C PIPEWORK/ANNACONDAS'.  
 11.03.1994 Repair 'AIR BRAKE SYSTEM COMPLETE'.  
 11.03.1994 Repair 'BOGIE BEARERS'.  
 11.03.1994 Repair 'BOGIE BRAKE RIGGING, LEVERS & RODS'.  
 11.03.1994 Repair 'BOGIE CLEARANCE'.  
 11.03.1994 Repair 'BRAKE SPREADER & HANGERS'.  
 11.03.1994 Repair 'CONCERTINA (PASS.)'.  
 11.03.1994 Repair 'END FRAME MEMBER'.  
 11.03.1994 Repair 'HAND BRAKE ASSEMBLY COMPLETE'.  
 11.03.1994 Repair 'HAND BRAKE ASSEMBLY COMPLETE'.  
 11.03.1994 Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.  
 11.03.1994 Repair 'REFRIG & AIR CON GAUGES'.

## 2.70 Passengers Vehicle classification starting with 'CLU'

### CLUB 1

Details: passenger car 'CLUB 1 P' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 42.6tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$56510

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-4

**Date Built:** 26.10.1970

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** CLUB CAR.JOINT STOCK AN-V/LINE

**BSG Code:** PBMK

Capacity of 43 passengers

Return to Service Date:	23.06.1993
Due Triple Valve:	01.03.1995
Last Lift:	03.03.1987

- 24.06.1985** Alteration complete 'FIT STORAGE DOOR LATCH AND GUARDS FOR BOTTLE STORAGE AND GLASS RETAINING FIXTURES. CLUB CARS (1600) GAUGE. NOS. 1-3. (RS4050)'.
- 17.09.1985** Alteration complete 'MODIFICATION IN KITCHEN & BAR AREAS. 1, BOTTLE STORAGE 3, EMERGENCY EXIT 2, RUBBISH BIN 4, GLASS WASHER CLUB CARS 1-3. (RS4075)'.
- 01.12.1986** Alteration complete 'FIT BIFURCATED MAIN RESERVOIR AIR LINES TO 3 'RBJ', 4 'PCO' AND 3 CLUB CARS. RBJ 1, 2, 3. CLUB 1, 2, 3. PCO 1, 2, 3, 4. (RS4170)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.
- 28.09.1989** Repair 'WHEEL SET'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 23.06.1993** Repair 'WHEEL SET'.

## CLUB 2

Details: passenger car 'CLUB 2 B' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 42.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2



**Original Cost:** \$56510

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-4

**Date Built:** 29.10.1970

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** CLUB CAR.JOINT STOCK AN-V/LINE

**BSG Code:** PBMK

Capacity of 43 passengers

Return to Service Date:	14.01.1991
Last Lift:	09.10.1982

- 24.06.1985** Alteration complete 'FIT STORAGE DOOR LATCH AND GUARDS FOR BOTTLE STORAGE AND GLASS RETAINING FIXTURES. CLUB CARS (1600) GAUGE. NOS. 1-3. (RS4050)'.
- 17.09.1985** Alteration complete 'MODIFICATION IN KITCHEN & BAR AREAS. 1, BOTTLE STORAGE 3, EMERGENCY EXIT 2, RUBBISH BIN 4, GLASS WASHER CLUB CARS 1-3. (RS4075)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 14.01.1991** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

### CLUB 3

Details: passenger car 'CLUB 3 K' in AN 'Mainland Division'.

**Owner:** AN & V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 42.8tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Original Cost:** \$56510

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-4

**Date Built:** 10.12.1970

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** CLUB CAR.JOINT STOCK AN-V/LINE

**BSG Code:** PBMK

Capacity of 43 passengers

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Corporate ID flag:	Y
Return to Service Date:	23.03.1993
Last Lift:	08.07.1986

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**24.06.1985** Alteration complete 'FIT STORAGE DOOR LATCH AND GUARDS FOR BOTTLE STORAGE AND GLASS RETAINING FIXTURES. CLUB CARS (1600) GAUGE. NOS. 1-3. (RS4050)'.

**17.09.1985** Alteration complete 'MODIFICATION IN KITCHEN & BAR AREAS. 1, BOTTLE STORAGE 3, EMERGENCY EXIT 2, RUBBISH BIN 4, GLASS WASHER CLUB CARS 1-3. (RS4075)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

**23.03.1993** Repair 'WHEEL SET'.

## 2.71 Passengers Vehicle classification starting with 'COL'

### COLI

Details: passenger car 'COLI N' in AN 'Mainland Division'.

**Owner:** ARHS

**Operator:** C

**Length Over Headstocks:** 21.7m

**Tare Weight:** 41tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1920

**Operating System:** ARHS

**Intended Use:** PASSENGERS

**Remarks:** NAMED COLIBAN (SLEEPER N0.7)

**BSG Code:** PBSS

Capacity of 18 sleeping

## 2.72 Passengers Vehicle classification starting with 'COO'

### COON

Details: passenger car 'COON T' in AN 'Eyre Peninsula Division'.

**Owner:** AN

**Operator:** D

**Length Over Headstocks:** 18.2m

**Tare Weight:** 25.3tonne

**Current Gauge:** Narrow

**Gauge Restrictions:** N

**Bogie Configuration:** 2X2

**Original Cost:** \$6090

**Run Restriction:** Vehicle suitable for use on AN lines only on gauge(s) shown

**Diagram Book Page No.:** CN 22

**Date Built:** 29.10.1915

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** SPECIAL SERVICE CAR

**BSG Code:** DEZZ

Capacity of 18 passengers

## **2.73 Passengers Vehicle classification starting with 'CW'**

### **CW 14**

Details: passenger car 'CW 14 B' in AN 'Mainland Division'.

**Owner:** VICTORIA

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 50.2tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 23.03.1951

**Operating System:** V/LINE

**Intended Use:** PASSENGERS

**Remarks:** NAMED 14CW

**BSG Code:** PBSS

Capacity of 20 sleeping

## **2.74 Passengers Vehicle classification starting with 'DAM'**

### **DAM 2333**

Details: passenger car 'DAM 2333 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** D

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1975

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** TWINNETTE SLEEPER 1ST CLASS

**BSG Code:** PSST

Capacity of 18 passengers

## 2.75 Passengers Vehicle classification starting with 'DC'

### DC 100

- 16.07.1981** Alteration complete 'INSTALLATION OF STAINLESS STEEL SHELVES IN COOL ROOM. DRAWING NUMBER ISSUED (DC)(NDC)OC-110,(DD)OC-112,(DE)OC-109,(DF)OC-101 (14s81)'.
- 22.07.1985** Alteration complete 'FIT 'QUELL' FIRE BLANKET CONTAINER INCORPORATING FIRE BLANKET TO CROSS PARTITION BETWEEN KITCHEN AND COOL ROOM (ADJACENT TO OVERHEAD CUPBOARD S). DF 231, 232, 233, 294, 295, 304 DE 176 DD 136, 156, DC 94, 100 (RS4058)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 28.08.1989** Repair 'VEHICLE COMPLETE'.
- 09.11.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 09.11.1989** Repair 'BOGIE CLEARANCE'.
- 09.11.1989** Repair 'BOGIE WEAR PLATES'.
- 09.11.1989** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 09.11.1989** Repair 'END COMPLETE'.
- 09.11.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 09.11.1989** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 20.11.1993** Repair 'VEHICLE RECOMMENDED CONDEMN'.
- 21.11.1993** Repair 'VEHICLE SOLD'.

## 2.76 Passengers Vehicle classification starting with 'DD'

### DD 136

Details: passenger car 'DD 136 F' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 25m

**Tare Weight:** 50.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$149170

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 43

**Date Built:** 03.04.1964

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** DINER

**BSG Code:** DSDZ

### Capacity of 48 dining

Return to Service Date:	13.07.1987
Last Lift:	17.01.1977

- 16.07.1981** Alteration 'INSTALLATION OF STAINLESS STEEL SHELVES IN COOL ROOM. DRAWING NUMBER ISSUED (DC)(NDC)OC-110,(DD)OC-112,(DE)OC-109,(DF)OC-101 (14s81)'.
- 22.07.1985** Alteration complete 'FIT 'QUELL' FIRE BLANKET CONTAINER INCORPORATING FIRE BLANKET TO CROSS PARTITION BETWEEN KITCHEN AND COOL ROOM (ADJACENT TO OVERHEAD CUPBOARD S). DF 231, 232, 233, 294, 295, 304 DE 176 DD 136, 156, DC 94, 100 (RS4058)'.
- 13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

### DD 156

- 16.07.1981** Alteration complete 'INSTALLATION OF STAINLESS STEEL SHELVES IN COOL ROOM. DRAWING NUMBER ISSUED (DC)(NDC)OC-110,(DD)OC-112,(DE)OC-109,(DF)OC-101 (14s81)'.
- 22.07.1985** Alteration complete 'FIT 'QUELL' FIRE BLANKET CONTAINER INCORPORATING FIRE BLANKET TO CROSS PARTITION BETWEEN KITCHEN

AND COOL ROOM (ADJACENT TO OVERHEAD CUPBOARD S). DF 231, 232, 233, 294, 295, 304 DE 176 DD 136, 156, DC 94, 100 (RS4058)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.

**24.10.1994** Repair 'VEHICLE CUT FOR SCRAP'.

## 2.77 Passengers Vehicle classification starting with 'DE'

### DE 176

Details: passenger car 'DE 176 Q' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48.6tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$161690

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 44

**Date Built:** 23.11.1966

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** DINER

**BSG Code:** DSDZ

Capacity of 48 dining

Return to Service Date:	17.07.1987
Due Triple Valve:	12.06.1997
Last Lift:	12.06.1990

**28.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABI NET,LIGHTING SWITHBOARD CONTROL CABINET,AND HEATER BANK COVER PLATE IN ROOF UNIT. (12s80)'.

- 16.07.1981** Alteration complete 'INSTALLATION OF STAINLESS STEEL SHELVES IN COOL ROOM. DRAWING NUMBER ISSUED (DC)(NDC)OC-110,(DD)OC-112,(DE)OC-109,(DF)OC-101 (14s81)'.
- 22.07.1985** Alteration complete 'FIT 'QUELL' FIRE BLANKET CONTAINER INCORPORATING FIRE BLANKET TO CROSS PARTITION BETWEEN KITCHEN AND COOL ROOM (ADJACENT TO OVERHEAD CUPBOARD S). DF 231, 232, 233, 294, 295, 304 DE 176 DD 136, 156, DC 94, 100 (RS4058)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

## 2.78 Passengers Vehicle classification starting with 'DF'

### DF 231

Details: passenger car 'DF 231 R' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.3tonne



**Current Gauge:** Standard**Gauge Restrictions:** S**Bogie Configuration:** 2X2**Original Cost:** \$162150**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate**Diagram Book Page No.:** NS 45**Date Built:** 04.04.1968**Operating System:** TRANS POOL**Intended Use:** PASSENGERS**Remarks:** DINER**BSG Code:** PSTD

Capacity of 48 dining

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Return to Service Date:	26.05.1995
Last Triple Valve:	06.10.1993
Last Single Car Test:	21.09.1988
Last Lift:	12.04.1983

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**16.07.1981** Alteration complete 'INSTALLATION OF STAINLESS STEEL SHELVES IN COOL ROOM. DRAWING NUMBER ISSUED (DC)(NDC)OC-110,(DD)OC-112,(DE)OC-109,(DF)OC-101 (14s81)'.

**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**22.07.1985** Alteration complete 'FIT 'QUELL' FIRE BLANKET CONTAINER INCORPORATING FIRE BLANKET TO CROSS PARTITION BETWEEN KITCHEN AND COOL ROOM (ADJACENT TO OVERHEAD CUPBOARD S). DF 231, 232, 233, 294, 295, 304 DE 176 DD 136, 156, DC 94, 100 (RS4058)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**05.04.1988** Alteration complete 'GHAN PASSENGER CAR EXTERIOR REFURBISHMENT. (A) FIT GHAN LOGO TO CARS (B) FIT VINYL STRIPE TO CARS (RS4279)'.

**26.07.1988** Alteration complete "GHAN' PASSENGER CAR INTERIOR REFURBISHMENT. A. REFURBISH INTERIOR OF ALL CARS IN ACCORDANCE

WITH DRAWINGS. B. RECLASSIFY CDF 265 TO AOB 265. (RS4304)'. New class: 'AOB'.

- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 09.04.1991** Repair 'WHEEL SET'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 04.11.1991** Repair 'WHEEL SET'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 26.08.1993** Alteration 'REPLACE COOLROOM & KITCHEN REFRIGERATOR COMPRESSORS WITH 3 SINGLE PHASE KIRBY UNITS. KITCHEN CABINET TO BE SUPPLIED FROM 2 COMPRESSOR UNITS. THE 3 KIRBY UNITS TO BE MOUNTED ON EXISTING FRAME. EXISTING 3 PHASE CIRCUIT BREAKERS TO BE REMOVED FROM SWBD AND REPLACED WITH 3 SINGLE POLE 10A CIRCUIT BREAKERS. REUSE EXISTING WIRING & PIPEWORK WERE POSSIBLE. ALL 'DF' DINING CARS. (RS4818)'.
- 27.08.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 27.08.1993** Repair 'BOGIE BEARERS'.
- 27.08.1993** Repair 'BOGIE CLEARANCE'.
- 27.08.1993** Repair 'BOGIE COMPLETE'.
- 27.08.1993** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 27.08.1993** Repair 'CONCERTINA (PASS.)'.
- 27.08.1993** Repair 'CONCERTINA (PASS.)'.
- 27.08.1993** Repair 'COUPLER COMPLETE'.
- 27.08.1993** Repair 'COUPLER INTERNAL LOCKING PARTS'.
- 27.08.1993** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 27.08.1993** Repair 'END COMPLETE'.
- 27.08.1993** Repair 'END FRAME MEMBER'.
- 27.08.1993** Repair 'FLOOR SHEETING'.

- 27.08.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.  
**27.08.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.  
**27.08.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.  
**27.08.1993** Repair 'WEAR PLATES & SADDLES'.  
**27.08.1993** Repair 'YOKE PIN'.  
**25.01.1994** Alteration 'REPLACE EXISTING STAR/DELTA STARTER WITH CLIPSAL STARTER. INSTALL ADDITIONAL CONDENSER FAN CONTACTOR & UPGRADE OTHER CONTACTORS. INSTALL ISOLATORS TO UNDERFRAME MOTORS. INSTALL EARTH WIRE FORM MAIN SWBD TO AIR CON PANEL & REWIRE AS PER DRAWINGS. GHAN PASSENGER CARS. (RS4842)'.  
**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**DF 232**

Details: passenger car 'DF 232 D' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$162150

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 45

**Date Built:** 17.10.1969

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** DINER

**BSG Code:** PSPD

Capacity of 48 dining

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Return to Service Date:	22.02.1994
Due Triple Valve:	05.04.1995
Last Triple Valve:	05.04.1994
Last Lift:	09.08.1983

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**16.07.1981** Alteration complete 'INSTALLATION OF STAINLESS STEEL SHELVES IN COOL ROOM. DRAWING NUMBER ISSUED (DC)(NDC)OC-110,(DD)OC-112,(DE)OC-109,(DF)OC-101 (14s81)'.

**27.08.1982** Alteration complete 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**22.07.1985** Alteration complete 'FIT 'QUELL' FIRE BLANKET CONTAINER INCORPORATING FIRE BLANKET TO CROSS PARTITION BETWEEN KITCHEN AND COOL ROOM (ADJACENT TO OVERHEAD CUPBOARD S). DF 231, 232, 233, 294, 295, 304 DE 176 DD 136, 156, DC 94, 100 (RS4058)'.

- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 13.09.1989** Repair 'WHEEL SET'.
- 21.06.1990** Alteration complete 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 08.05.1991** Alteration complete 'WHEELS TO CHANGE A/C CONDEMNED. (DF232)'.
- 28.05.1991** Alteration complete 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 16.09.1991** Repair 'WHEEL SET'.
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration complete 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration complete 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration complete 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 26.08.1993** Alteration complete 'REPLACE COOLROOM & KITCHEN REFRIGERATOR

COMPRESSORS WITH 3 SINGLE PHASE KIRBY UNITS. KITCHEN CABINET TO BE SUPPLIED FROM 2 COMPRESSOR UNITS. THE 3 KIRBY UNITS TO BE MOUNTED ON EXISTING FRAME. EXISTING 3 PHASE CIRCUIT BREAKERS TO BE REMOVED FROM SWBD AND REPLACED WITH 3 SINGLE POLE 10A CIRCUIT BREAKERS. REUSE EXISTING WIRING & PIPEWORK WERE POSSIBLE. ALL 'DF' DINING CARS. (RS4818)'.

**17.02.1994** Alteration complete 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**22.02.1994** Repair 'A/C AIR FILTRATION'.

**22.02.1994** Repair 'A/C PIPEWORK/ANNACONDAS'.

**22.02.1994** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**22.02.1994** Repair 'BOGIE BEARERS'.

**22.02.1994** Repair 'BOGIE BEARERS'.

**22.02.1994** Repair 'BOGIE BRAKE RIGGING, LEVERS & RODS'.

**22.02.1994** Repair 'BOGIE CLEARANCE'.

**22.02.1994** Repair 'BRAKE SPREADER & HANGERS'.

**22.02.1994** Repair 'COLD WATER TANK (PASS.)'.

**22.02.1994** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.

**22.02.1994** Repair 'COMPLETE TRIPLE VALVE 'AF' OR 'ITV'.

**22.02.1994** Repair 'CONCERTINA (PASS.)'.

**22.02.1994** Repair 'CONCERTINA (PASS.)'.

**22.02.1994** Repair 'CONCERTINA (PASS.)'.

**22.02.1994** Repair 'COUPLER COMPLETE'.

**22.02.1994** Repair 'COUPLER KNUCKLE'.

**22.02.1994** Repair 'COUPLER KNUCKLE PIN'.

**22.02.1994** Repair 'DRAFTGEAR COMPLETE HEAVY'.

**22.02.1994** Repair 'ELECTRICAL CABLING'.

**22.02.1994** Repair 'ELECTRICAL CABLING'.

**22.02.1994** Repair 'ELECTRICAL CONTROL PANEL (PASS.)'.

**22.02.1994** Repair 'END FRAME MEMBER'.

**22.02.1994** Repair 'EVAPORATOR UNIT (PASS.)'.

**22.02.1994** Repair 'FLOOR SHEETING'.

**22.02.1994** Repair 'FRIDGE MOTORS'.

**22.02.1994** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.

**22.02.1994** Repair 'HANDBRAKE HANDLE'.

**22.02.1994** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.

**22.02.1994** Repair 'REFRIG & AIR CON GAUGES'.

**22.02.1994** Repair 'VESTIBULE (PASS.)'.

**22.02.1994** Repair 'WATER FILTERS'.

**22.02.1994** Repair 'YOKE PIN'.

## DF 233

Details: passenger car 'DF 233 M' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.3tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$162150  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** NS 45  
**Date Built:** 29.11.1968  
**Operating System:** IP POOL  
**Intended Use:** PASSENGERS  
**Remarks:** DINER  
**BSG Code:** PSPD

Capacity of 48 dining

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Return to Service Date:	09.12.1993
Last Triple Valve:	05.04.1994
Last Lift:	17.07.1985

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- 16.07.1981** Alteration complete 'INSTALLATION OF STAINLESS STEEL SHELVES IN COOL ROOM. DRAWING NUMBER ISSUED (DC)(NDC)OC-110,(DD)OC-112,(DE)OC-109,(DF)OC-101 (14s81)'.
- 27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 22.07.1985** Alteration complete 'FIT 'QUELL' FIRE BLANKET CONTAINER INCORPORATING FIRE BLANKET TO CROSS PARTITION BETWEEN KITCHEN AND COOL ROOM (ADJACENT TO OVERHEAD CUPBOARD S). DF 231, 232, 233, 294, 295, 304 DE 176 DD 136, 156, DC 94, 100 (RS4058)'.
- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

- 16.11.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration complete 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 19.11.1992** Repair 'EVAPORATOR UNIT (PASS.)'.
- 19.11.1992** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration complete 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 26.08.1993** Alteration complete 'REPLACE COOLROOM & KITCHEN REFRIGERATOR COMPRESSORS WITH 3 SINGLE PHASE KIRBY UNITS. KITCHEN CABINET TO BE SUPPLIED FROM 2 COMPRESSOR UNITS. THE 3 KIRBY UNITS TO BE MOUNTED ON EXISTING FRAME. EXISTING 3 PHASE CIRCUIT BREAKERS TO BE REMOVED FROM SWBD AND REPLACED WITH 3 SINGLE POLE 10A CIRCUIT BREAKERS. REUSE EXISTING WIRING & PIPEWORK WERE POSSIBLE. ALL 'DF' DINING CARS. (RS4818)'.
- 09.12.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 09.12.1993** Repair 'BOGIE BEARERS'.
- 09.12.1993** Repair 'BOGIE BEARERS'.
- 09.12.1993** Repair 'BOGIE BRAKE RIGGING, LEVERS & RODS'.
- 09.12.1993** Repair 'BOGIE CLEARANCE'.
- 09.12.1993** Repair 'BOGIE COMPLETE'.
- 09.12.1993** Repair 'BRAKE SPREADER & HANGERS'.
- 09.12.1993** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 09.12.1993** Repair 'CONCERTINA (PASS.)'.
- 09.12.1993** Repair 'COUPLER KNUCKLE PIN'.
- 09.12.1993** Repair 'ELECTRICAL CABLING'.
- 09.12.1993** Repair 'ELECTRICAL CONTROL PANEL (PASS.)'.
- 09.12.1993** Repair 'END COMPLETE'.
- 09.12.1993** Repair 'END FRAME MEMBER'.
- 09.12.1993** Repair 'FLOOR SHEETING'.
- 09.12.1993** Repair 'FRIDGE MOTORS'.

**09.12.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.

**09.12.1993** Repair 'YOKE PIN'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## **DF 294**

Details: passenger car 'DF 294 A' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$162150

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 45

**Date Built:** 03.10.1972

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** DINER

**BSG Code:** PSPD

Capacity of 48 dining

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Return to Service Date:	28.07.1989
Due Triple Valve:	28.06.1990
Last Lift:	31.07.1981

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**16.07.1981** Alteration complete 'INSTALLATION OF STAINLESS STEEL SHELVES IN COOL ROOM. DRAWING NUMBER ISSUED (DC)(NDC)OC-110,(DD)OC-112,(DE)OC-109,(DF)OC-101 (14s81)'.

**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**22.07.1985** Alteration complete 'FIT 'QUELL' FIRE BLANKET CONTAINER INCORPORATING FIRE BLANKET TO CROSS PARTITION BETWEEN KITCHEN AND COOL ROOM (ADJACENT TO OVERHEAD CUPBOARD S). DF 231, 232, 233, 294, 295, 304 DE 176 DD 136, 156, DC 94, 100 (RS4058)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.



- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 28.07.1989** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 28.07.1989** Repair 'AIR CONDITIONER CONDENSOR (PASS.)'.
- 28.07.1989** Repair 'AIR CONDITIONER MOTOR (PASS.)'.
- 28.07.1989** Repair 'BATTERY BOX (PASS.)'.
- 28.07.1989** Repair 'BATTERY CHARGER (PASS.)'.
- 28.07.1989** Repair 'EXHAUST FANS (PASS.)'.
- 28.07.1989** Repair 'HOT WATER TANK (PASS.)'.
- 28.07.1989** Repair 'KITCHEN APPLIANCES (PASS.)'.
- 28.07.1989** Repair 'LIGHTING (INTERIOR)'.
- 28.07.1989** Repair 'REFRIGERATOR'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 26.08.1993** Alteration 'REPLACE COOLROOM & KITCHEN REFRIGERATOR COMPRESSORS WITH 3 SINGLE PHASE KIRBY UNITS. KITCHEN CABINET TO BE SUPPLIED FROM 2 COMPRESSOR UNITS. THE 3 KIRBY UNITS TO BE

MOUNTED ON EXISTING FRAME. EXISTING 3 PHASE CIRCUIT BREAKERS TO BE REMOVED FROM SWBD AND REPLACED WITH 3 SINGLE POLE 10A CIRCUIT BREAKERS. REUSE EXISTING WIRING & PIPEWORK WERE POSSIBLE. ALL 'DF' DINING CARS. (RS4818)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## **DF 295**

Details: passenger car 'DF 295 J' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** P

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Date Built:** 01.01.1901

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** DINER P CARS

**BSG Code:** PSPD

Capacity of 48 dining

**16.07.1981** Alteration complete 'INSTALLATION OF STAINLESS STEEL SHELVES IN COOL ROOM. DRAWING NUMBER ISSUED (DC)(NDC)OC-110,(DD)OC-112,(DE)OC-109,(DF)OC-101 (14s81)'.

**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**22.07.1985** Alteration complete 'FIT 'QUELL' FIRE BLANKET CONTAINER INCORPORATING FIRE BLANKET TO CROSS PARTITION BETWEEN KITCHEN AND COOL ROOM (ADJACENT TO OVERHEAD CUPBOARD S). DF 231, 232, 233, 294, 295, 304 DE 176 DD 136, 156, DC 94, 100 (RS4058)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

- 21.08.1989** Repair 'WHEEL SET'.
- 12.11.1990** Repair 'WHEEL SET'.
- 28.05.1991** Alteration complete 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 04.01.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 04.01.1993** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 04.01.1993** Repair 'BOGIE CLEARANCE'.
- 04.01.1993** Repair 'BOGIE COMPLETE'.
- 04.01.1993** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 04.01.1993** Repair 'CONCERTINA (PASS.)'.
- 04.01.1993** Repair 'CONCERTINA (PASS.)'.
- 04.01.1993** Repair 'COUPLER COMPLETE'.
- 04.01.1993** Repair 'COUPLER KNUCKLE'.
- 04.01.1993** Repair 'COUPLER KNUCKLE PIN'.
- 04.01.1993** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 04.01.1993** Repair 'END COMPLETE'.
- 04.01.1993** Repair 'EVAPORATOR UNIT (PASS.)'.
- 04.01.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.
- 04.01.1993** Repair 'VESTIBULE (PASS.)'.
- 04.01.1993** Repair 'WHEEL SET'.
- 04.01.1993** Repair 'YOKE COMPLETE'.
- 04.01.1993** Repair 'YOKE FOLLOWER'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 26.08.1993** Alteration 'REPLACE COOLROOM & KITCHEN REFRIGERATOR COMPRESSORS WITH 3 SINGLE PHASE KIRBY UNITS. KITCHEN CABINET TO BE SUPPLIED FROM 2 COMPRESSOR UNITS. THE 3 KIRBY UNITS TO BE MOUNTED ON EXISTING FRAME. EXISTING 3 PHASE CIRCUIT BREAKERS TO BE REMOVED FROM SWBD AND REPLACED WITH 3 SINGLE POLE 10A CIRCUIT BREAKERS. REUSE EXISTING WIRING & PIPEWORK WHERE POSSIBLE. ALL 'DF' DINING CARS. (RS4818)'.
- 30.01.1994** Repair 'VEHICLE CUT FOR SCRAP'.

**DF 304**

Details: passenger car 'DF 304 E' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$162150

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 45

**Date Built:** 29.01.1974

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** DINER

**BSG Code:** PSPD

Capacity of 48 dining

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Return to Service Date:	17.12.1993
Due Triple Valve:	30.10.1995
Last Triple Valve:	17.03.1994
Last Lift:	30.10.1987

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**16.07.1981** Alteration complete 'INSTALLATION OF STAINLESS STEEL SHELVES IN COOL ROOM. DRAWING NUMBER ISSUED (DC)(NDC)OC-110,(DD)OC-112,(DE)OC-109,(DF)OC-101 (14s81)'.

**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**22.07.1985** Alteration complete 'FIT 'QUELL' FIRE BLANKET CONTAINER INCORPORATING FIRE BLANKET TO CROSS PARTITION BETWEEN KITCHEN AND COOL ROOM (ADJACENT TO OVERHEAD CUPBOARD S). DF 231, 232, 233, 294, 295, 304 DE 176 DD 136, 156, DC 94, 100 (RS4058)'.

**13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration complete 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.
- 22.08.1991** Repair 'WHEEL SET'.
- 24.07.1992** Repair 'WHEEL SET'.
- 14.05.1993** Alteration complete 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration complete 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration complete 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration complete 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 26.08.1993** Alteration complete 'REPLACE COOLROOM & KITCHEN REFRIGERATOR COMPRESSORS WITH 3 SINGLE PHASE KIRBY UNITS. KITCHEN CABINET TO BE SUPPLIED FROM 2 COMPRESSOR UNITS. THE 3 KIRBY UNITS TO BE MOUNTED ON EXISTING FRAME. EXISTING 3 PHASE CIRCUIT BREAKERS TO BE REMOVED FROM SWBD AND REPLACED WITH 3 SINGLE POLE 10A CIRCUIT BREAKERS. REUSE EXISTING WIRING & PIPEWORK WHERE POSSIBLE. ALL 'DF' DINING CARS. (RS4818)'.
- 17.12.1993** Repair 'A/C PIPEWORK/ANNACONDAS'.
- 17.12.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 17.12.1993** Repair 'BOGIE BEARERS'.
- 17.12.1993** Repair 'BOGIE BEARERS'.
- 17.12.1993** Repair 'BOGIE BRAKE RIGGING, LEVERS & RODS'.
- 17.12.1993** Repair 'BOGIE CLEARANCE'.
- 17.12.1993** Repair 'BOGIE COMPLETE'.
- 17.12.1993** Repair 'BRAKE SPREADER & HANGERS'.

17.12.1993 Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.  
17.12.1993 Repair 'CONCERTINA (PASS.)'.  
17.12.1993 Repair 'COUPLER INTERNAL LOCKING PARTS'.  
17.12.1993 Repair 'COUPLER KNUCKLE PIN'.  
17.12.1993 Repair 'DRAFTGEAR COMPLETE HEAVY'.  
17.12.1993 Repair 'ELECTRICAL CABLING'.  
17.12.1993 Repair 'ELECTRICAL CONTROL PANEL (PASS.)'.  
17.12.1993 Repair 'END COMPLETE'.  
17.12.1993 Repair 'END FRAME MEMBER'.  
17.12.1993 Repair 'FLOOR SHEETING'.  
17.12.1993 Repair 'FRIDGE MOTORS'.  
17.12.1993 Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.  
17.12.1993 Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.  
17.12.1993 Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.  
17.12.1993 Repair 'REFRIG & AIR CON GAUGES'.  
17.12.1993 Repair 'WEAR PLATES & SADDLES'.  
17.12.1993 Repair 'YOKE CARRIER'.  
17.12.1993 Repair 'YOKE PIN'.  
17.02.1994 Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES  
WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## DF 927

Details: passenger car 'DF 927 U' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$157170

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 45

**Date Built:** 06.03.1975

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** DINER;I.P.CARS

**BSG Code:** PSPD

Capacity of 48 dining

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Return to Service Date:	09.01.1991
Due Triple Valve:	14.11.1996
Last Lift:	23.07.1982

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- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO HANDBRAKE. DWG AC 1709B, BC1567C. BRG 969, 972, 974. BRJ 912, 914, 915, 916, 917, 918, 919, 999. DF 930, 934, 935, 964. ER 906, 909, 910, 911. (IP1379)'.
- 09.01.1980** Alteration 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 08.07.1985** Alteration complete 'FIT 'QUEL' FIRE BLANKET CONTAINER INCORPORATING FIRE BLANKET TO CROSS PARTITION BETWEEN KITCHEN AND COOL ROOM (ADJACENT TO OVERHEAD CUPBOARDS). DF 927, 930, 934, 935, 964. (IP0385)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 26.08.1987** Alteration 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL

PASSENGER CARS. (RS4270)'.

**16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.

**07.08.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**07.08.1989** Repair 'BOGIE COMPLETE'.

**07.08.1989** Repair 'END COMPLETE'.

**07.08.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.

**07.08.1989** Repair 'TOP CENTRE PLATE'.

**07.08.1989** Repair 'TOP CENTRE PLATE'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**10.08.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**10.08.1990** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.

**10.08.1990** Repair 'BOGIE BEARERS'.

**10.08.1990** Repair 'BOGIE CLEARANCE'.

**10.08.1990** Repair 'BOGIE COMPLETE'.

**10.08.1990** Repair 'BRIDGE PLATE ASSEMBLY'.

**10.08.1990** Repair 'COUPLER COMPLETE'.

**10.08.1990** Repair 'COUPLER KNUCKLE'.

**10.08.1990** Repair 'COUPLER KNUCKLE PIN'.

**10.08.1990** Repair 'DRAFTGEAR COMPLETE HEAVY'.

**10.08.1990** Repair 'END COMPLETE'.

**10.08.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.

**10.08.1990** Repair 'TOP CENTRE PLATE'.

**10.08.1990** Repair 'YOKE COMPLETE'.

**10.08.1990** Repair 'YOKE PIN'.

**09.01.1991** Repair 'WHEEL SET'.

**14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.

**28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.

**29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.

**03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.

**04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.

**04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.

**26.08.1993** Alteration 'REPLACE COOLROOM & KITCHEN REFRIGERATOR COMPRESSORS WITH 3 SINGLE PHASE KIRBY UNITS. KITCHEN CABINET TO BE SUPPLIED FROM 2 COMPRESSOR UNITS. THE 3 KIRBY UNITS TO BE MOUNTED ON EXISTING FRAME. EXISTING 3 PHASE CIRCUIT BREAKERS TO



BE REMOVED FROM SWBD AND REPLACED WITH 3 SINGLE POLE 10A CIRCUIT BREAKERS. REUSE EXISTING WIRING & PIPEWORK WERE POSSIBLE. ALL 'DF' DINING CARS. (RS4818)'.

**17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## DF 930

Details: passenger car 'DF 930 L' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$157170

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 45

**Date Built:** 29.03.1968

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** DINER;I.P.CARS

**BSG Code:** PSPD

Capacity of 48 dining

Return to Service Date:	10.12.1990
Due Triple Valve:	22.05.1992
Last Triple Valve:	05.04.1989
Last Lift:	23.06.1981

**10.12.1979** Alteration 'MODIFICATION TO HANDBRAKE. DWG AC 1709B, BC1567C. BRG 969, 972, 974. BRJ 912, 914, 915, 916, 917, 918, 919, 999. DF 930, 934, 935, 964. ER 906, 909, 910, 911. (IP1379)'.

**10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP1279)'.

**09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0380)'.

**09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDE, DE, ER, HGM, HM. (IP0280)'.

**20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL

- 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 27.08.1982** Alteration complete 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 08.07.1985** Alteration complete 'FIT 'QUELL' FIRE BLANKET CONTAINER INCORPORATING FIRE BLANKET TO CROSS PARTITION BETWEEN KITCHEN AND COOL ROOM (ADJACENT TO OVERHEAD CUPBOARDS). DF 927, 930, 934, 935, 964. (IP0385)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 15.03.1988** Alteration complete 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 10.12.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 10.12.1990** Repair 'AUX. BRAKE RESERVOIR COMPLETE'.
- 10.12.1990** Repair 'BOGIE BEARERS'.
- 10.12.1990** Repair 'BOGIE CLEARANCE'.
- 10.12.1990** Repair 'BOGIE COMPLETE'.
- 10.12.1990** Repair 'BRIDGE PLATE ASSEMBLY'.
- 10.12.1990** Repair 'COMPLETE TRIPLE VALVE 'AF' OR 'TIV'".
- 10.12.1990** Repair 'CONCERTINA (PASS.)'.
- 10.12.1990** Repair 'CONCERTINA (PASS.)'.
- 10.12.1990** Repair 'CONCERTINA (PASS.)'.
- 10.12.1990** Repair 'COUPLER COMPLETE'.

- 10.12.1990** Repair 'COUPLER KNUCKLE'.
- 10.12.1990** Repair 'COUPLER KNUCKLE PIN'.
- 10.12.1990** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 10.12.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 10.12.1990** Repair 'VESTIBULE (PASS.)'.
- 10.12.1990** Repair 'WHEEL SET'.
- 10.12.1990** Repair 'YOKE COMPLETE'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 26.08.1993** Alteration 'REPLACE COOLROOM & KITCHEN REFRIGERATOR COMPRESSORS WITH 3 SINGLE PHASE KIRBY UNITS. KITCHEN CABINET TO BE SUPPLIED FROM 2 COMPRESSOR UNITS. THE 3 KIRBY UNITS TO BE MOUNTED ON EXISTING FRAME. EXISTING 3 PHASE CIRCUIT BREAKERS TO BE REMOVED FROM SWBD AND REPLACED WITH 3 SINGLE POLE 10A CIRCUIT BREAKERS. REUSE EXISTING WIRING & PIPEWORK WERE POSSIBLE. ALL 'DF' DINING CARS. (RS4818)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## DF 934

Details: passenger car 'DF 934 B' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$157170

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 45

**Date Built:** 03.05.1968

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** DINER;I.P.CARS

**BSG Code:** PSPD

Capacity of 48 dining

Return to Service Date:	15.12.1992
Last Triple Valve:	22.11.1988
Last Single Car Test:	22.11.1988
Last Lift:	09.01.1979

- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP1279)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO HANDBRAKE. DWG AC 1709B, BC1567C. BRG 969, 972, 974. BRJ 912, 914, 915, 916, 917, 918, 919, 999. DF 930, 934, 935, 964. ER 906, 909, 910, 911. (IP1379)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 27.08.1982** Alteration complete 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.
- 08.07.1985** Alteration complete 'FIT 'QUELL' FIRE BLANKET CONTAINER INCORPORATING FIRE BLANKET TO CROSS PARTITION BETWEEN KITCHEN AND COOL ROOM (ADJACENT TO OVERHEAD CUPBOARDS). DF 927, 930, 934, 935, 964. (IP0385)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.

- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 27.03.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 15.12.1992** Repair 'WHEEL SET'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 26.08.1993** Alteration 'REPLACE COOLROOM & KITCHEN REFRIGERATOR COMPRESSORS WITH 3 SINGLE PHASE KIRBY UNITS. KITCHEN CABINET TO BE SUPPLIED FROM 2 COMPRESSOR UNITS. THE 3 KIRBY UNITS TO BE MOUNTED ON EXISTING FRAME. EXISTING 3 PHASE CIRCUIT BREAKERS TO BE REMOVED FROM SWBD AND REPLACED WITH 3 SINGLE POLE 10A CIRCUIT BREAKERS. REUSE EXISTING WIRING & PIPEWORK WHERE POSSIBLE. ALL 'DF' DINING CARS. (RS4818)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOONE' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

**DF 935**

Details: passenger car 'DF 935 K' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** P

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$1000000

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Date Built:** 01.01.1901

**Operating System:** IP POOL

**Intended Use:** PASSENGERS

**Remarks:** DINER.PCARS

**BSG Code:** PSPD

Capacity of 48 dining

**10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP1279)'.

**09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.

**09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.

**20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924,928,929,966, DE 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.

**27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DE 927,930,934,964, ER 906,909,910,911. (IP0782)'.

**31.07.1984** Alteration 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.

**08.07.1985** Alteration complete 'FIT 'QUELL' FIRE BLANKET CONTAINER INCORPORATING FIRE BLANKET TO CROSS PARTITION BETWEEN KITCHEN AND COOL ROOM (ADJACENT TO OVERHEAD CUPBOARDS). DE 927, 930, 934, 935, 964. (IP0385)'.

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 03.04.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 26.08.1993** Alteration 'REPLACE COOLROOM & KITCHEN REFRIGERATOR COMPRESSORS WITH 3 SINGLE PHASE KIRBY UNITS. KITCHEN CABINET TO BE SUPPLIED FROM 2 COMPRESSOR UNITS. THE 3 KIRBY UNITS TO BE MOUNTED ON EXISTING FRAME. EXISTING 3 PHASE CIRCUIT BREAKERS TO BE REMOVED FROM SWBD AND REPLACED WITH 3 SINGLE POLE 10A CIRCUIT BREAKERS. REUSE EXISTING WIRING & PIPEWORK WHERE POSSIBLE. ALL 'DF' DINING CARS. (RS4818)'.
- 28.01.1994** Repair 'VEHICLE CUT FOR SCRAP'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## DF 964

Details: passenger car 'DF 964 C' in AN 'Mainland Division'.

**Owner:** AN  
**Operator:** C  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 47.3tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$157170  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** NS 45  
**Date Built:** 10.02.1970  
**Operating System:** IP POOL  
**Intended Use:** PASSENGERS  
**Remarks:** DINER;I.P.CARS  
**BSG Code:** PSPD

Capacity of 48 dining

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Return to Service Date:	08.04.1993
Last Triple Valve:	14.04.1993
Last Single Car Test:	24.05.1988
Last Lift:	30.06.1978

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- 10.12.1979** Alteration 'MODIFICATION TO HANDBRAKE. DWG AC 1709B, BC1567C. BRG 969, 972, 974. BRJ 912, 914, 915, 916, 917, 918, 919, 999. DF 930, 934, 935, 964. ER 906, 909, 910, 911. (IP1379)'.
- 10.12.1979** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSEMBLY. DWG 3C 40A. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP1279)'.
- 09.01.1980** Alteration complete 'MODIFICATION OF DRAFTGEAR POCKET AND HEADSTOCK. DWGS. 1C 130, 1C 131, 1C 132, 2C 109, 2C 110, 2C 111. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0380)'.
- 09.01.1980** Alteration complete 'REPLACEMENT OF MINER RF361 DRAFTGEAR WITH R 361-7 TYPE DRAFTGEAR. ALL AFC, ARJ, ARL, ARM, BRG, BRJ, CDF, DE, ER, HGM, HM. (IP0280)'.
- 20.08.1980** Alteration complete 'REMOVE EXISTING ASBESTOS INSULATION FROM AIR CONDITIONING CONTROL CABINET. LIGHTING SWITCHBOARD CONTROL CABINET AND HEATER BANK COVER PLATE IN ROOF AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985, 986, ARL 920,921,922,923,925,947,961,962,963,990,992, ARM 951,952,953, 954,987, BRG 969,972,974, BRJ 912,914,915,916,917,918,919,999, CDF 924 928,929,966, DF 927,930,934,935,964, ER 906,909,910,911. (IP0880)'.
- 27.08.1982** Alteration 'MODIFICATION TO HANDBRAKE PULLEY. DWG. 1C 189. AFC 936,937,938,939, ARJ 940,941,944,945,973,984,985,986, ARL 920,921, 922,923,925,947,961,962,963,990,992, ARM 951,952,953,954,987, BRJ 912, 914,915,916,917,918,919,999, CDF 924,928,929,966, DF 927,930,934,964, ER 906,909,910,911. (IP0782)'.
- 31.07.1984** Alteration complete 'REPLACE TRUNNIONS AND SCREW AS USED ON WATER TANKS SUSPENSION FOR HOT AND COLD WATER TANKS. DWG. BC 12545B.I. ITEMS 6,7,8. ALL CARS. (IP0284)'.



- 08.07.1985** Alteration complete 'FIT 'QUELL' FIRE BLANKET CONTAINER INCORPORATING FIRE BLANKET TO CROSS PARTITION BETWEEN KITCHEN AND COOL ROOM (ADJACENT TO OVERHEAD CUPBOARDS). DF 927, 930, 934, 935, 964. (IP0385)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 05.02.1987** Alteration complete 'REPLACE DIAPHRAGM SIDE STEM SPRINGS TO INCREASE CLOSING FORCE. APPLICABLE DRAWINGS 3C-110 (IP0187)'.
- 20.03.1987** Alteration 'INSTALLATION OF EMERGENCY KEY BOX. APPLICABLE DRAWING 2C-190 (IP0387)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 26.08.1987** Alteration complete 'MODIFICATION TO BUFFER BEAM ASSY ON ALL IP PASSENGER CARS AS PER DRAWING 2C.193 (IP0887)'.
- 22.09.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS ON IP PASSENGER CARS. APPLICABLE DRAWINGS A2/24-CM-31 TYPE AND SERIAL NUMBER OF CARS INVOLVED ALL AIR CONDITIONED IP PASSENGER CARS. (IP0987)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 02.05.1990** Repair 'WHEEL SET'.
- 21.06.1990** Alteration complete 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 14.12.1990** Repair 'WHEEL SET'.
- 31.01.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 31.01.1991** Repair 'BOGIE CLEARANCE'.
- 31.01.1991** Repair 'END COMPLETE'.
- 05.03.1992** Repair 'WHEEL SET'.
- 08.04.1993** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 08.04.1993** Repair 'AIR CONDITIONER COMPRESSOR (PASS.)'.
- 08.04.1993** Repair 'BOGIE CLEARANCE'.
- 08.04.1993** Repair 'BOGIE COMPLETE'.
- 08.04.1993** Repair 'COLD WATER TANK (PASS.)'.
- 08.04.1993** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 08.04.1993** Repair 'COUPLER KNUCKLE'.
- 08.04.1993** Repair 'COUPLER KNUCKLE PIN'.
- 08.04.1993** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 08.04.1993** Repair 'ELECTRICAL CABLING'.
- 08.04.1993** Repair 'END COMPLETE'.
- 08.04.1993** Repair 'EVAPORATOR UNIT (PASS.)'.
- 08.04.1993** Repair 'EVAPORATOR UNIT (PASS.)'.
- 08.04.1993** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 08.04.1993** Repair 'HOT WATER TANK (PASS.)'.
- 08.04.1993** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.

- 08.04.1993** Repair 'WEAR PLATES & SADDLES'.
- 08.04.1993** Repair 'WHEEL SET'.
- 08.04.1993** Repair 'YOKE PIN'.
- 14.05.1993** Alteration 'FIT 'MINER TCC 8000' CONSTANT CONTACT SIDEBEARERS TO ALL I.P. PASSENGER CARS TO DRAWING C3-13. (RS4791)'.
- 28.06.1993** Alteration 'ON STAINLESS STEEL PASSENGER CARS (IP & GHAN) REMOVE TEMPERATURE RECORDING INSTRUMENT FROM AIR CONDITIONING CONTROL PANEL AREA. REMOVE ASSOCIATED PIPE WORK. (RS4800)'.
- 29.07.1993** Alteration 'MODIFY ALL IP PASSENGER CARS WITH CLASP BRAKING SYSTEM TO A 2 PAIR BRAKE BLOCK RIGGING SYSTEM TO GENERAL DRAWING C3-14. ALSO MODIFY ALL GHAN CARS. ALL IP & GHAN CARS. (RS4808)'.
- 03.08.1993** Alteration 'FLUSH ALL EXISTING WATER TANKS ON 'GHAN' & 'IP' PASSENGER CARS. INSTALL ONE UNIT OF TWIN 'SOLO' WATER FILTRATION SYSTEM ON EACH PASSENGER CAR IN ACCORDANCE WITH SPECIFICATION ON DRAWING A1/C8-16. ALL GHAN & IP PASS. CARS (RS4809)'.
- 04.08.1993** Alteration 'INSTALL LATERAL RESTRAINT TO BUFFER BEAMS ON ALL IP AND GHAN ROLLINGSTOCK IN ACCORDANCE WITH DWG NO. A0/C8-11. (RS4812)'.
- 04.08.1993** Alteration 'INSTALL ONE GRAVITY TRAP IN EACH TOILET CHUTE ON ALL I.P. AND GHAN PASSENGER CARS IN ACCORDANCE WITH DWG NO. A1/C8-10. (RS4811)'.
- 26.08.1993** Alteration 'REPLACE COOLROOM & KITCHEN REFRIGERATOR COMPRESSORS WITH 3 SINGLE PHASE KIRBY UNITS. KITCHEN CABINET TO BE SUPPLIED FROM 2 COMPRESSOR UNITS. THE 3 KIRBY UNITS TO BE MOUNTED ON EXISTING FRAME. EXISTING 3 PHASE CIRCUIT BREAKERS TO BE REMOVED FROM SWBD AND REPLACED WITH 3 SINGLE POLE 10A CIRCUIT BREAKERS. REUSE EXISTING WIRING & PIPEWORK WHERE POSSIBLE. ALL 'DF' DINING CARS. (RS4818)'.
- 17.02.1994** Alteration 'REPLACE EXISTING AIRCONDITIONING FILTER ASSEMBLIES WITH 'PRYOCON' FILTER ASSEMBLIES. ALL GHAN & IP CARS. (RS4843)'.

## **2.79 Passengers Vehicle classification starting with 'DOR'**

### **DORA**

- 25.03.1987** Reclassified from passenger car 'DORA A' to passenger car 'JTB 4 A'.

## **2.80 Passengers Vehicle classification starting with 'ECA'**

### **ECA 98**

- 13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

- 11.03.1988** Alteration complete 'CONVERSION OF PASSENGER CAR 'BB 98' TO CREW ACCOMMODATION CAR. RECLASSIFY TO 'ECA 98'. (RS4259)'. New class: 'ECA'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.07.1989** Alteration complete 'REPLACE EXISTING DRAUGHT GEAR AND COUPLERS WITH FREIGHT TYPE. BB 98 (ECA 98). (RS4438)'.
- 17.10.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 17.10.1989** Repair 'BOGIE BRAKE BLOCKS X92'.
- 17.10.1989** Repair 'BOGIE BRAKE BLOCKS X92'.
- 17.10.1989** Repair 'BOGIE CLEARANCE'.
- 17.10.1989** Repair 'COMPLETE TRIPLE VALVE 'AF' OR 'ITV'".
- 17.10.1989** Repair 'CONCERTINA (PASS.)'.
- 17.10.1989** Repair 'COUPLER COMPLETE'.
- 17.10.1989** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 17.10.1989** Repair 'END COMPLETE'.
- 17.10.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 17.10.1989** Repair 'ISOLATING COCK'.
- 17.10.1989** Repair 'OTHER SLACK ADJUSTER COMPLETE'.
- 17.10.1989** Repair 'SIDE BEARER'.
- 17.10.1989** Repair 'VESTIBULE (PASS.)'.
- 17.10.1989** Issued at location 'Port augusta workshops' with a previous code of passenger car 'BB 98 M'.
- 21.12.1989** Repair 'VEHICLE RECLASSIFY'.
- 21.12.1989** Issued at location 'Port augusta workshops' with a previous code of passenger car 'BB 98 M'.

## ECA 132

- 13.06.1986** Alteration 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 25.05.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 25.05.1990** Repair 'BODY COMPLETE'.
- 25.05.1990** Repair 'BOGIE BEARERS'.
- 25.05.1990** Repair 'BOGIE CLEARANCE'.
- 25.05.1990** Repair 'BOGIE COMPLETE'.

- 25.05.1990** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 25.05.1990** Repair 'COUPLER COMPLETE'.
- 25.05.1990** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 25.05.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 25.05.1990** Repair 'VEHICLE RECLASSIFY'.
- 25.05.1990** Issued at location 'Port augusta workshops' with a previous code of passenger car 'BRE 132 K'

## **ECA 220**

- 27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.
- 10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 01.07.1988** Alteration 'FIT EXISTING SHOWER MIXING VALVE WITH CHROME BREACH PIECE 133MM CENTRES TO ALL SHOWER COMPARTMENTS. AG, BG, BA, BRG, ARJ, ARL, ARM, ER. (RS4290)'.
- 16.05.1989** Alteration 'FIT 1.8 MM THICK LEAD SHEET TO THE FLOORS OF ALL STANDARD GAUGE PASSENGER CARS, INCLUDING I.P. CARS. (RS4420)'.
- 31.07.1989** Alteration complete 'REPLACE EXISTING DRAUGHT GEAR AND COUPLER WITH FREIGHT TYPE. BRJ 220 (ECA 220). (RS4437)'.
- 25.09.1989** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 25.09.1989** Repair 'BOGIE CLEARANCE'.
- 25.09.1989** Repair 'BOGIE COMPLETE'.
- 25.09.1989** Repair 'BOGIE WEAR PLATES'.
- 25.09.1989** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 25.09.1989** Repair 'CONCERTINA (PASS.)'.
- 25.09.1989** Repair 'DRAFTGEAR COMPLETE HEAVY'.
- 25.09.1989** Repair 'END COMPLETE'.
- 25.09.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 25.09.1989** Repair 'SIDE BEARER'.
- 25.09.1989** Repair 'VESTIBULE (PASS.)'.
- 25.09.1989** Issued at location 'Port augusta workshops' with a previous code of passenger car 'BRJ 220 G'
- 11.10.1989** Repair 'VEHICLE RECLASSIFY'.
- 11.10.1989** Issued at location 'Port augusta workshops' with a previous code of passenger car 'BRJ 220 G'
- 23.10.1989** Repair 'BRANCH PIPE'.
- 23.10.1989** Repair 'END BRAKE COCK'.
- 23.10.1989** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 23.10.1989** Repair 'VESTIBULE (PASS.)'.
- 08.02.1990** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 08.02.1990** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 08.02.1990** Repair 'ISOLATING COCK'.

## 2.81 Passengers Vehicle classification starting with 'EFS'

### EFS 2090

Details: passenger car 'EFS 2090 U' in AN 'Mainland Division'.

**Owner:** 3801 LTD

**Operator:** C

**Length Over Headstocks:** 19.8m

**Tare Weight:** 36.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1938

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** SHOWN AS 'FS 2090'

**BSG Code:** PSSZ

Capacity of 56 passengers

## 2.82 Passengers Vehicle classification starting with 'EI'

### EI 84

Details: passenger car 'EI 84 X' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D

**Length Over Headstocks:** 25m

**Tare Weight:** 44.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$106760

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** NS 278

**Date Built:** 01.01.1952

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** OFFICERS INSPECTION CAR

**BSG Code:** PSIZ

Capacity of 12 sleeping

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Fleet Grp Code:	AH
Return to Service Date:	23.06.1992

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**23.06.1992** Repair 'VEHICLE COMPLETE'.

## **2.83 Passengers Vehicle classification starting with 'FAM'**

### **FAM 2382**

Details: passenger car 'FAM 2382 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 49tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1980

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**BSG Code:** PSST

Capacity of 18 sleeping

### **FAM 2383**

Details: passenger car 'FAM 2383 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 49tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1980

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**BSG Code:** PSST

Capacity of 18 sleeping

### **FAM 2384**

Details: passenger car 'FAM 2384 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** D

**Length Over Headstocks:** 22.9m  
**Tare Weight:** 49tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1970  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSST

Capacity of 18 sleeping

#### **FAM 2385**

Details: passenger car 'FAM 2385 F' in AN 'Mainland Division'.

**Owner:** SRA  
**Operator:** P  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 48tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1980  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSST

Capacity of 18 sleeping

#### **FAM 2387**

Details: passenger car 'FAM 2387 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 48tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1970  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**Remarks:** 18 BERTHS  
**BSG Code:** PSST

Capacity of 49 sleeping

### **FAM 2388**

Details: passenger car 'FAM 2388 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Length Over Headstocks:** 22.9m

**Tare Weight:** 48tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1970

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGER

**Remarks:** 18 BERTHS

**BSG Code:** PSST

Capacity of 49 tonnes

## **2.84 Passengers Vehicle classification starting with 'FEN'**

### **FENN**

**31.01.1989** Reclassified from passenger car 'FENN W' to passenger car 'FINN H'.

## **2.85 Passengers Vehicle classification starting with 'FIN'**

### **FINN**

Details: passenger car 'FINN H' in AN 'Mainland Division'.

**Owner:** A.H.R.S

**Operator:** C

**Length Over Headstocks:** 21.7m

**Tare Weight:** 41tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1920

**Operating System:** ARHS

**Intended Use:** PASSENGERS

**Remarks:** SLEEPING CARRIAGE

**BSG Code:** PBSS

Capacity of 18 passengers



## **2.86 Passengers Vehicle classification starting with 'FN'**

### **FN 2193**

Details: passenger car 'FN 2193 Y' in AN 'Mainland Division'.

**Owner:** 3801 LTD

**Operator:** C

**Length Over Headstocks:** 19.4m

**Tare Weight:** 35tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Date Built:** 11.10.1938

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**BSG Code:** PSSZ

Capacity of 44 passengers

## **2.87 Passengers Vehicle classification starting with 'FNR'**

### **FNR 2185**

Details: passenger car 'FNR 2185 J' in AN 'Mainland Division'.

**Owner:** 3801 LTD

**Operator:** C

**Length Over Headstocks:** 19.4m

**Tare Weight:** 40.6tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1938

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** BUFFET CAR WITH KITCHEN

**BSG Code:** PSSZ

Capacity of 24 passengers

## **2.88 Passengers Vehicle classification starting with 'FRN'**

### **FRN 1724**

Details: passenger car 'FRN 1724 H' in AN 'Mainland Division'.

**Owner:** 3801 LTD  
**Operator:** C  
**Length Over Headstocks:** 19.4m  
**Tare Weight:** 40.6tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1938  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**Remarks:** BUFFET CAR  
**BSG Code:** PSSZ

Capacity of 35 passengers

## **2.89 Passengers Vehicle classification starting with 'FSN'**

### **FSN 2021**

Details: passenger car 'FSN 2021 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 19.5m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**Remarks:** ECONOMY CLASS COACH STENCILED AS FS 2021  
**BSG Code:** PSSZ

Capacity of 64 passengers

### **FSN 2023**

Details: passenger car 'FSN 2023 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 19.5m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1950

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS COACH STENCILED AS FS 2023

**BSG Code:** PSSZ

Capacity of 64 passengers

#### **FSN 2024**

Details: passenger car 'FSN 2024 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 19.5m

**Tare Weight:** 40tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1970

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS COACH STENCILED AS FS 2024

**BSG Code:** PSSZ

Capacity of 64 passengers

#### **FSN 2082**

Details: passenger car 'FSN 2082 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 19.5m

**Tare Weight:** 40tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1950

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS COACH STENCILED AS FS 2082

**BSG Code:** PSSZ

Capacity of 64 passengers

### **FSN 2124**

Details: passenger car 'FSN 2124 T' in AN 'Mainland Division'.

**Owner:** 3801 LTD

**Operator:** C

**Length Over Headstocks:** 19.5m

**Tare Weight:** 38tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1912

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS COACH CAR OWNED BY 3801 LT

**BSG Code:** PSSZ

Capacity of 64 passengers

### **FSN 2140**

Details: passenger car 'FSN 2140 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 19.5m

**Tare Weight:** 40tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1950

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS COACH STENCILED AS FS 2140

**BSG Code:** PSSZ

Capacity of 64 passengers

## **2.90 Passengers Vehicle classification starting with 'FSP'**

### **FSP 2082**

Details: passenger car 'FSP 2082 C' in AN 'Mainland Division'.

**Owner:** ARHS

**Operator:** C

**Length Over Headstocks:** 19.5m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1935  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** VEHICLE STENCILLED 'FS 2082'  
**BSG Code:** PSSZ

Capacity of 64 passengers

## **2.91 Passengers Vehicle classification starting with 'GOU'**

### **GOUL**

Details: passenger car 'GOUL K' in AN 'Mainland Division'.

**Owner:** VIC  
**Length Over Headstocks:** 21.6m  
**Tare Weight:** 51tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1920  
**Operating System:** V/LINE  
**Intended Use:** PASSENGER  
**Remarks:** GOULBURN  
**BSG Code:** PBSS

Capacity of 12 sleeping

## **2.92 Passengers Vehicle classification starting with 'HFS'**

### **HFS 2017**

Details: passenger car 'HFS 2017 W' in AN 'Mainland Division'.

**Owner:** 3804 LTD  
**Operator:** D  
**Length Over Headstocks:** 19.8m  
**Tare Weight:** 36.5tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2

**Date Built:** 01.01.1938  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSZ

Capacity of 64 passengers

### **HFS 2089**

Details: passenger car 'HFS 2089 E' in AN 'Mainland Division'.

**Owner:** 3801 LTD  
**Operator:** C  
**Length Over Headstocks:** 19.8m  
**Tare Weight:** 36.5tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1938  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**Remarks:** PASSENGER CAR WITH GUSARD'S COMPARTMENT  
**BSG Code:** PSSZ

Capacity of 64 passengers

## **2.93 Passengers Vehicle classification starting with 'HNP'**

### **HNP 2198**

Details: passenger car 'HNP 2198 R' in AN 'Mainland Division'.

**Owner:** ARHS  
**Operator:** C  
**Length Over Headstocks:** 20m  
**Tare Weight:** 36tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1935  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS  
**Remarks:** VEHICLE STENCILLED AS 'HN 2198'  
**BSG Code:** PSSZ

Capacity of 52 passengers

## 2.94 Passengers Vehicle classification starting with 'IND'

### INDI

Details: passenger car 'INDI Q' in AN 'Mainland Division'.

**Owner:** VICTORIA

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 50.2tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 23.03.1951

**Operating System:** V/LINE

**Intended Use:** PASSENGERS

**Remarks:** NAMED INDI

**BSG Code:** PBSS

Capacity of 20 sleeping

## 2.95 Passengers Vehicle classification starting with 'INM'

### INMA

Details: passenger car 'INMA L' in AN 'Mainland Division'.

**Owner:** ARHS

**Operator:** C

**Length Over Headstocks:** 21.7m

**Tare Weight:** 41tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1920

**Operating System:** ARHS

**Intended Use:** PASSENGERS

**Remarks:** NAMED INMAN (SLEEPER N0.8)

**BSG Code:** PBSS

Capacity of 18 sleeping

## 2.96 Passengers Vehicle classification starting with 'JRA'

### JRA 1

Details: passenger car 'JRA 1 M' in AN 'Mainland Division'.

**Owner:** AN & VLINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 52tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1950

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** ROOMETTE 1ST CLASS. NAMED MURURI

**BSG Code:** PBMR

Capacity of 20 sleeping

**10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.

**26.07.1995** Repair 'VEHICLE CUT FOR SCRAP'.

### JRA 2

Details: passenger car 'JRA 2 V' in AN 'Mainland Division'.

**Owner:** AN & VLINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 52tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2



**Date Built:** 01.01.1950

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** ROOMETTE 1ST CLASS. NAMED CHALAKI

**BSG Code:** PBMR

Capacity of 20 sleeping

**10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.

**26.07.1995** Repair 'VEHICLE CUT FOR SCRAP'.

**26.07.1995** Repair 'VEHICLE CUT FOR SCRAP'.

### JRA 3

**10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.

**18.12.1995** Repair 'VEHICLE CUT FOR SCRAP'.

### JRA 4

Details: passenger car 'JRA 4 Q' in AN 'Mainland Division'.

**Owner:** AN & V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 52tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1950

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** ROOMETTE 1ST CLASS. NAMED 'PURPAUT'

**BSG Code:** PBMR

Capacity of 20 sleeping

**10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.

**26.07.1995** Repair 'VEHICLE CUT FOR SCRAP'.

## JRA 5

Details: passenger car 'JRA 5 C' in AN 'Mainland Division'.

**Owner:** AN & V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 52tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1950

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** ROOMETTE 1ST CLASS. NAMED 'JUKI'

**BSG Code:** PBMR

Capacity of 20 sleeping

**10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.
- 26.07.1995** Repair 'VEHICLE CUT FOR SCRAP'.

## JRA 6

Details: passenger car 'JRA 6 L' in AN 'Mainland Division'.

**Owner:** AN & VLINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 52tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1950

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** ROOMETTE 1ST CLASS. NAMED TARKINJI

**BSG Code:** PBMR

Capacity of 20 sleeping

- 10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.
- 26.07.1995** Repair 'VEHICLE CUT FOR SCRAP'.

## 2.97 Passengers Vehicle classification starting with 'JRB'

### JRB 1

Details: passenger car 'JRB 1 P' in AN 'Mainland Division'.

**Owner:** AN & V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$93830  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** CB P-1  
**Date Built:** 04.08.1972  
**Operating System:** AN & V/LINE  
**Intended Use:** PASSENGERS  
**Remarks:** ROOMETTE;J.S. AN-V/L;NAMED 'ALLAMBI'  
**BSG Code:** PBMR

Capacity of 20 sleeping

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Return to Service Date:	25.03.1987
Last Lift:	16.05.1985

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- 10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.  
**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.  
**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.  
**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.  
**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.  
**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.  
**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

## JRB 2

Details: passenger car 'JRB 2 B' in AN 'Mainland Division'.

**Owner:** AN & V/LINE

**Operator:** C  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 47tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$93830  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** CB P-1  
**Date Built:** 07.08.1972  
**Operating System:** AN & V/LINE  
**Intended Use:** PASSENGERS  
**Remarks:** ROOMETTE;J.S. AN-V/L;NAMED 'TANTINI'  
**BSG Code:** PBMR

Capacity of 20 sleeping

Return to Service Date:	24.06.1988
Last Lift:	14.04.1986

- 10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

## **2.98 Passengers Vehicle classification starting with 'JTA'**

### **JTA**

**10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.

### **JTA 1**

Details: passenger car 'JTA 1 Q' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.6tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 17.10.1957

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** TWINETTE; J.S AN-V/L. NAMED 'NOMULDI'

**BSG Code:** PBMT

Capacity of 20 sleeping

**10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.

**26.07.1995** Repair 'VEHICLE CUT FOR SCRAP'.

### **JTA 2**

Details: passenger car 'JTA 2 C' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.6tonne

**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 17.10.1957  
**Operating System:** AN & V/LINE  
**Intended Use:** PASSENGERS  
**Remarks:** TWINETTE; J.S AN-V/L; NAMED 'MOKAI'  
**BSG Code:** PBMT

Capacity of 20 sleeping

- 10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.
- 26.07.1995** Repair 'VEHICLE CUT FOR SCRAP'.

### JTA 3

Details: passenger car 'JTA 3 L' in AN 'Mainland Division'.

**Owner:** AN & V/LINE  
**Operator:** C  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 47.6tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 17.10.1957  
**Operating System:** AN & V/LINE  
**Intended Use:** PASSENGERS  
**Remarks:** TWINETTE; J.S. AN-V/L; NAMED 'MALKARI'  
**BSG Code:** PBMT

Capacity of 20 sleeping

- 10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.
- 26.07.1995** Repair 'VEHICLE CUT FOR SCRAP'.

#### **JTA 4**

Details: passenger car 'JTA 4 U' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.6tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 17.10.1957

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** TWINETTE; J.S. AN-V/L; NAMED 'PATTI'

**BSG Code:** PBMT

Capacity of 20 sleeping

- 10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.
- 03.01.1991** Repair 'WHEEL SET'.
- 26.07.1995** Repair 'VEHICLE CUT FOR SCRAP'.

#### **JTA 5**

Details: passenger car 'JTA 5 G' in AN 'Mainland Division'.

**Owner:** AN &V/LINE



**Operator:** C  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 47.6tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 17.10.1957  
**Operating System:** AN & V/LINE  
**Intended Use:** PASSENGERS  
**Remarks:** TWINETTE; J.S AN-V/L; NAMED 'YANNI'  
**BSG Code:** PBMT

Capacity of 20 sleeping

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.  
**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.  
**26.07.1995** Repair 'VEHICLE CUT FOR SCRAP'.

## JTA 6

Details: passenger car 'JTA 6 P' in AN 'Mainland Division'.

**Owner:** AN & V/LINE  
**Operator:** C  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 47.6tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$49040  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** CB P-7  
**Date Built:** 17.10.1957  
**Operating System:** AN & V/LINE  
**Intended Use:** PASSENGERS  
**Remarks:** TWINETTE; J.S. AN-V/L; NAMED 'KULDALAI'  
**BSG Code:** PBMT

Capacity of 20 sleeping

Return to Service Date:	22.11.1988
Last Lift:	09.12.1982

- 10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

## 2.99 Passengers Vehicle classification starting with 'JTB'

### JTB 1

Details: passenger car 'JTB 1 T' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.8tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$77060

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-3

**Date Built:** 12.12.1967

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** TWINETTE;J.S. AN-V/L;NAMED 'TAWARRI'

**BSG Code:** PBMT

## Capacity of 20 sleeping

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Return to Service Date:	26.03.1987
Last Lift:	01.11.1985

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- 10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

**JTB 2**

Details: passenger car 'JTB 2 F' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 47.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$77060

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-3

**Date Built:** 12.12.1967

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** TWINETTE;J.S. AN-V/L;NAMED 'YANKAI'

**BSG Code:** PBMT**Capacity of 20 sleeping**

Return to Service Date:	03.10.1989
Due Triple Valve:	01.05.1994
Last Lift:	20.05.1986

- 10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.
- 03.10.1989** Repair 'WHEEL SET'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

**JTB 3**

Details: passenger car 'JTB 3 Y' in AN 'Mainland Division'.

**Owner:** AN &V/LINE**Operator:** C**Length Over Headstocks:** 22.9m**Tare Weight:** 45.5tonne**Current Gauge:** Standard**Gauge Restrictions:** S**Bogie Configuration:** 2X2**Original Cost:** \$90330**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate**Diagram Book Page No.:** CB P-2

**Date Built:** 13.12.1971**Operating System:** AN & V/LINE**Intended Use:** PASSENGERS**Remarks:** TWINETTE;J.S. AN-V/L;NAMED 'WERONI'**BSG Code:** PBMT

Capacity of 20 sleeping

Return to Service Date:	09.09.1987
Last Lift:	08.11.1984

- 10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.  
**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.  
**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.  
**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.  
**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.  
**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.  
**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

**JTB 4**

Details: passenger car 'JTB 4 A' in AN 'Mainland Division'.

**Owner:** AN & V/LINE**Operator:** C**Length Over Headstocks:** 22.9m**Tare Weight:** 45.8tonne**Current Gauge:** Standard**Gauge Restrictions:** S**Bogie Configuration:** 2X2**Original Cost:** \$90330

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-2

**Date Built:** 26.11.1971

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** TWINETTE;J.S. AN-V/L;NAMED 'DORAI'

**BSG Code:** PBMT

Capacity of 20 sleeping

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Return to Service Date:	25.03.1987
Last Lift:	03.08.1984

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**10.12.1986** Alteration complete 'REMOVE RETAINING CUP & GLASS CLIPS AND PLATE PEGS FROM CUPBOARDS IN CONDUCTOR'S COMPARTMENT. 'OVERLAND' JOINT STOCK CARS. (RS4172)'.  
**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.  
**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.  
**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.  
**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.  
**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.  
**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.  
**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.  
**2.100 Passengers Vehicle classification starting with 'JUK'**  
**JUKI**  
**25.03.1987** Reclassified from passenger car 'JUKI G' to passenger car 'JRA 5 C'.  
**2.101 Passengers Vehicle classification starting with 'KUL'**  
**KULD**  
**18.12.1987** Reclassified from passenger car 'KULD N' to passenger car 'JTA 6 P'.

## **2.102 Passengers Vehicle classification starting with 'LAN'**

### **LAN 2323**

Details: passenger car 'LAN 2323 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 22.5m

**Tare Weight:** 46tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1980

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**BSG Code:** PSSR

Capacity of 40 passengers

### **LAN 2344**

Details: passenger car 'LAN 2344 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 22.5m

**Tare Weight:** 46tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1960

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** ROOMETTE SLEEPER

**BSG Code:** PSSR

Capacity of 20 sleeping

### **LAN 2348**

Details: passenger car 'LAN 2348 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 22.5m

**Tare Weight:** 46tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1960  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**Remarks:** ROOMETTE  
**BSG Code:** PSSR

Capacity of 20 passengers

### **LAN 2353**

Details: passenger car 'LAN 2353 S' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 22.5m  
**Tare Weight:** 46tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 31.10.1955  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**BSG Code:** PSSR

Capacity of 20 sleeping

### **LAN 2372**

Details: passenger car 'LAN 2372 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 22.5m  
**Tare Weight:** 46tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 31.10.1955  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**BSG Code:** PSSR

Capacity of 20 sleeping



**LAN 2376**

Details: passenger car 'LAN 2376 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 22.5m  
**Tare Weight:** 46tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 31.10.1955  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**BSG Code:** PSSR

Capacity of 20 sleeping

**LAN 2378**

Details: passenger car 'LAN 2378 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 22.5m  
**Tare Weight:** 46tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 31.10.1955  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSR

Capacity of 20 sleeping

**2.103 Passengers Vehicle classification starting with 'LOD'****LODD**

Details: passenger car 'LODD B' in AN 'Mainland Division'.

**Owner:** VIC  
**Length Over Headstocks:** 21.6m  
**Tare Weight:** 46tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B

**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** V/LINE  
**Intended Use:** PASSENGER  
**Remarks:** NAMED LODDON (SLEEPER N0.10)  
**BSG Code:** PBSS

Capacity of 20 sleeping

## **2.104 Passengers Vehicle classification starting with 'MAL'**

**MALK**

**25.03.1987** Reclassified from passenger car 'MALK D' to passenger car 'JTA 3 L'.

## **2.105 Passengers Vehicle classification starting with 'MBE'**

**MBE 62**

Details: passenger car 'MBE 62 G' in AN 'Mainland Division'.

**Owner:** SRA/NSW  
**Operator:** C  
**Length Over Headstocks:** 23m  
**Tare Weight:** 38tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Date Built:** 01.01.1988  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**Remarks:** INCORRECT DATA  
**BSG Code:** PSSE

Capacity of 58 passengers

## **2.106 Passengers Vehicle classification starting with 'MCE'**

**MCE 114**

Details: passenger car 'MCE 114 Q' in AN 'Mainland Division'.

**Owner:** SRA/NSW  
**Operator:** C  
**Length Over Headstocks:** 23m

**Tare Weight:** 38tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Date Built:** 01.01.1988  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**Remarks:** INCORRECT DATA  
**BSG Code:** PSSE

Capacity of 58 passengers

### MCE 117

Details: passenger car 'MCE 117 U' in AN 'Mainland Division'.

**Owner:** SRA/NSW  
**Operator:** C  
**Length Over Headstocks:** 23m  
**Tare Weight:** 38tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Date Built:** 01.01.1988  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**Remarks:** INCORRECT DATA  
**BSG Code:** PSSE

Capacity of 58 passengers

### MCE 582

Details: passenger car 'MCE 582 N' in AN 'Mainland Division'.

**Owner:** SRA/NSW  
**Operator:** C  
**Length Over Headstocks:** 23m  
**Tare Weight:** 38tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Date Built:** 01.01.1988

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** INCORRECT DATA

**BSG Code:** PSSE

Capacity of 58 passengers

## **2.107 Passengers Vehicle classification starting with 'MFA'**

### **MFA 2702**

Details: passenger car 'MFA 2702 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 22.67m

**Tare Weight:** 45tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 11.09.1989

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** FLYING SCOTSMAN CONSIST

**BSG Code:** PSSE

Capacity of 64 passengers

### **MFA 2704**

Details: passenger car 'MFA 2704 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 22.67m

**Tare Weight:** 45tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 11.09.1989

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** FLYING SCOTSMAN CONSIST

**BSG Code:** PSSE

Capacity of 64 passengers

**MFA 2712**

Details: passenger car 'MFA 2712 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 21.8m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSE

Capacity of 84 passengers

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Return to Service Date: 04.09.1989

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**04.09.1989** Repair 'BOGIE BEARINGS'.

**2.108 Passengers Vehicle classification starting with 'MFE'****MFE 1858**

Details: passenger car 'MFE 1858 H' in AN 'Mainland Division'.

**Owner:** SRA/NSW  
**Operator:** C  
**Length Over Headstocks:** 23m  
**Tare Weight:** 38tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Date Built:** 01.01.1988  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**Remarks:** INCORRECT DATA  
**BSG Code:** PSSE

Capacity of 58 passengers

## 2.109 Passengers Vehicle classification starting with ‘MFH’

### MFH 2703

Details: passenger car ‘MFH 2703 W’ in AN ‘Mainland Division’.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 21.8m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSE

Capacity of 72 passengers

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Return to Service Date:	04.09.1989
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**04.09.1989** Repair ‘BOGIE BEARINGS’.

### MFH 2705

Details: passenger car ‘MFH 2705 R’ in AN ‘Mainland Division’.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 21.8m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSE

Capacity of 72 passengers

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Return to Service Date:	04.09.1989
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**04.09.1989** Repair ‘BOGIE BEARINGS’.

### MFH 2713

Details: passenger car 'MFH 2713 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 21.8m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 12.09.1989  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**Remarks:** FLYING SCOTSMAN CONSIST  
**BSG Code:** PSSE

Capacity of 64 passengers

### MFH 2715

Details: passenger car 'MFH 2715 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 21.8m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 12.09.1989  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**Remarks:** FLYING SCOTSMAN CONSIST  
**BSG Code:** PSSE

Capacity of 64 passengers

### MFH 2716

Details: passenger car 'MFH 2716 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 21.8m  
**Tare Weight:** 40tonne

**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 12.09.1989  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**Remarks:** FLYING SCOTSMAN CONSIST  
**BSG Code:** PSSE

Capacity of 64 passengers

## **2.110 Passengers Vehicle classification starting with 'MFS'**

### **MFS 2028**

Details: passenger car 'MFS 2028 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 19.5m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSE

Capacity of 70 passengers

### **MFS 2078**

Details: passenger car 'MFS 2078 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 19.5m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSE



Capacity of 70 passengers

**MFS 2096**

Details: passenger car 'MFS 2096 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 19.5m

**Tare Weight:** 40tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1950

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**BSG Code:** PSSE

Capacity of 70 passengers

**MFS 2121**

Details: passenger car 'MFS 2121 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 19.5m

**Tare Weight:** 40tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1950

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**BSG Code:** PSSE

Capacity of 70 passengers

**MFS 2137**

Details: passenger car 'MFS 2137 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 19.5m

**Tare Weight:** 40tonne

**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSE

Capacity of 70 passengers

### **MFS 2145**

Details: passenger car 'MFS 2145 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 19.5m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSE

Capacity of 70 passengers

## **2.111 Passengers Vehicle classification starting with 'MHA'**

### **MHA 658**

Details: passenger car 'MHA 658 C' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 22.67m  
**Tare Weight:** 45tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$10  
**Date Built:** 11.09.1989  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**Remarks:** FLYING SCOTSMAN CONSIST

**BSG Code:** PSSZ

Capacity of 64 passengers

## **2.112 Passengers Vehicle classification starting with 'MOK'**

**MOKA**

**26.11.1987** Reclassified from passenger car 'MOKA L' to passenger car 'JTA 2 C'.

## **2.113 Passengers Vehicle classification starting with 'MUR'**

**MURR**

Details: passenger car 'MURR U' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 23.8m

**Tare Weight:** 53tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S/B

**Bogie Configuration:** 2X3

**Run Restriction:** Not to Run in NSW

**Diagram Book Page No.:** CB 37

**Date Built:** 01.01.1934

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** CAR 'MURRAY'

**BSG Code:** PSIZ

Capacity of 8 passengers

**MURU**

**22.07.1987** Reclassified from passenger car 'MURU J' to passenger car 'JRA 1 M'.

## **2.114 Passengers Vehicle classification starting with 'NAB'**

**NABP 8**

Details: passenger car 'NABP 8 U' in AN 'Mainland Division'.

**Owner:** STEAMTOWN

**Length Over Headstocks:** 19.8m

**Tare Weight:** 35.6tonne

**Current Gauge:** Narrow  
**Gauge Restrictions:** N  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1940  
**Operating System:** SRPS  
**Intended Use:** PASSENGER  
**Remarks:** NAMED BLACKROCK  
**BSG Code:** PMSZ

Capacity of 56 passengers

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

### **NABP 11**

Details: passenger car 'NABP 11 L' in AN 'Mainland Division'.

**Owner:** STEAMTOWN  
**Length Over Headstocks:** 19.8m  
**Tare Weight:** 35.6tonne  
**Current Gauge:** Narrow  
**Gauge Restrictions:** N  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1940  
**Operating System:** SRPS  
**Intended Use:** PASSENGER  
**Remarks:** NAMED EURELIA  
**BSG Code:** PMSZ

Capacity of 56 passengers

## **2.115 Passengers Vehicle classification starting with 'NAF'**

### **NAF 27**

**29.04.1992** Reclassified from passenger car 'NAF 27 V' to passenger car 'SSAF 27 C'.

### **NAF 49**

Details: passenger car 'NAF 49 J' in AN 'Mainland Division'.

**Owner:** STEAMTOWN  
**Length Over Headstocks:** 15.5m  
**Tare Weight:** 30.5tonne  
**Current Gauge:** Narrow

**Gauge Restrictions:** N  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1940  
**Operating System:** SRPS  
**Intended Use:** PASSENGER  
**Remarks:** NAMED QUORN. SOUVENIR CAR  
**BSG Code:** PMSL

Capacity of 35 tonnes

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

### NAFA 93

Details: passenger car 'NAFA 93 W' in AN 'Mainland Division'.

**Owner:** AN  
**Operator:** C  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 46tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Original Cost:** \$100530  
**Diagram Book Page No.:** NN 29  
**Date Built:** 15.11.1952  
**Operating System:** AN  
**Intended Use:** PASSENGERS  
**Remarks:** STORED PPI;1ST CLASS LOUNGE  
**BSG Code:** PSIL

Capacity of 53 passengers

Return to Service Date:	14.08.1987
Last Lift:	08.08.1979

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

## **2.116 Passengers Vehicle classification starting with 'NAM'**

### **NAM 2329**

Details: passenger car 'NAM 2329 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Length Over Headstocks:** 22.5m

**Tare Weight:** 46tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 31.10.1955

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGER

**BSG Code:** PSST

Capacity of 20 sleeping

### **NAM 2335**

Details: passenger car 'NAM 2335 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Length Over Headstocks:** 22.5m

**Tare Weight:** 46tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 31.10.1955

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGER

**BSG Code:** PSST

Capacity of 20 sleeping

### **NAM 2336**

Details: passenger car 'NAM 2336 F' in AN 'Mainland Division'.

**Owner:** SRA

**Operator:** D

**Length Over Headstocks:** 22.5m

**Tare Weight:** 46tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2  
**Date Built:** 31.10.1955  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSST

Capacity of 20 sleeping

#### **NAM 2365**

Details: passenger car 'NAM 2365 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 22.5m  
**Tare Weight:** 46tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 31.10.1955  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSST

Capacity of 20 sleeping

#### **NAM 2373**

Details: passenger car 'NAM 2373 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 22.5m  
**Tare Weight:** 46tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1975  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSST

Capacity of 40 passengers

### **NAM 2374**

Details: passenger car 'NAM 2374 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 22.5m  
**Tare Weight:** 46tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1975  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSST

Capacity of 40 passengers

## **2.117 Passengers Vehicle classification starting with 'NAN'**

### **NANK**

**26.11.1987** Reclassified from passenger car 'NANK K' to passenger car 'JRA 3 H'.

## **2.118 Passengers Vehicle classification starting with 'NAR'**

### **NARA 71**

Details: passenger car 'NARA 71 B' in AN 'Mainland Division'.

**Owner:** SPRPS  
**Operator:** C  
**Length Over Headstocks:** 24.1m  
**Tare Weight:** 46.5tonne  
**Current Gauge:** Narrow  
**Gauge Restrictions:** N  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1961  
**Operating System:** SRPS  
**Intended Use:** PASSENGERS  
**BSG Code:** PMST

Capacity of 20 sleeping



#### **NARB 14**

Details: passenger car 'NARB 14 H' in AN 'Mainland Division'.

**Owner:** STEAMTOWN

**Length Over Headstocks:** 19.8m

**Tare Weight:** 38tonne

**Current Gauge:** Narrow

**Gauge Restrictions:** N

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1910

**Operating System:** SRPS

**Intended Use:** PASSENGER

**BSG Code:** PMSZ

Capacity of 39 tonnes

#### **NARC 14**

Details: passenger car 'NARC 14 L' in AN 'Mainland Division'.

**Owner:** STEAMTOWN

**Operator:** P

**Length Over Headstocks:** 23.3m

**Tare Weight:** 43.7tonne

**Current Gauge:** Narrow

**Gauge Restrictions:** N

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1950

**Operating System:** SRPS

**Intended Use:** PASSENGERS

**BSG Code:** PMSZ

Capacity of 40 passengers

#### **NARC 34**

Details: passenger car 'NARC 34 E' in AN 'Mainland Division'.

**Owner:** STEAMTOWN

**Length Over Headstocks:** 23.3m

**Tare Weight:** 43.7tonne

**Current Gauge:** Narrow

**Gauge Restrictions:** N

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1950

**Operating System:** SRPS  
**Intended Use:** PASSENGER  
**Remarks:** NAMED BELALIE  
**BSG Code:** PMSZ

Capacity of 40 passengers

#### **NARC 50**

Details: passenger car 'NARC 50 H' in AN 'Mainland Division'.

**Owner:** STEAMTOWN  
**Length Over Headstocks:** 23.3m  
**Tare Weight:** 43.7tonne  
**Current Gauge:** Narrow  
**Gauge Restrictions:** N  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** SRPS  
**Intended Use:** PASSENGER  
**Remarks:** NAMED BRUCE  
**BSG Code:** PMSZ

Capacity of 40 passengers

#### **NARG 47**

Details: passenger car 'NARG 47 J' in AN 'Mainland Division'.

**Owner:** SPRPS  
**Operator:** C  
**Length Over Headstocks:** 24.1m  
**Tare Weight:** 47.2tonne  
**Current Gauge:** Narrow  
**Gauge Restrictions:** N  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1961  
**Operating System:** SRPS  
**Intended Use:** PASSENGERS  
**BSG Code:** PMSR

Capacity of 18 sleeping

## 2.119 Passengers Vehicle classification starting with 'NDC'

### NDC 95

Details: passenger car 'NDC 95 K' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 25m

**Tare Weight:** 58.2tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$100810

**Diagram Book Page No.:** NN 14B

**Date Built:** 15.11.1952

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** DINING CAR

**BSG Code:** PSID

Capacity of 48 dining

Return to Service Date:	10.03.1992
Last Lift:	30.08.1976

**16.07.1981** Alteration 'INSTALLATION OF STAINLESS STEEL SHELVES IN COOL ROOM. DRAWING NUMBER ISSUED (DC)(NDC)OC-110,(DD)OC-112,(DE)OC-109,(DF)OC-101 (14s81)'.

**17.12.1986** Alteration 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE

BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS.  
(RS4603)'.

**03.03.1992** Repair 'TRAIN PIPE (END)'.

**10.03.1992** Repair 'TRAIN PIPE (END)'.

## **2.120 Passengers Vehicle classification starting with 'NDS'**

### **NDS 2282**

Details: passenger car 'NDS 2282 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 20.6m

**Tare Weight:** 41tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1960

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** IST CLASS COACH

**BSG Code:** PSSC

Capacity of 60 passengers

### **NDS 2283**

Details: passenger car 'NDS 2283 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 20.6m

**Tare Weight:** 46tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only

**Date Built:** 01.01.1950

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** ECONOMY CLASS COACH

**BSG Code:** PSSC

Capacity of 64 passengers

**27.07.1990** Repair 'VEHICLE RECLASSIFY'.

**27.07.1990** Issued at location 'Australian National' with a previous code of passenger car 'SFS 2283 V'

### **NDS 2285**

Details: passenger car 'NDS 2285 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 41tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1960  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**Remarks:** IST CLASS COACH  
**BSG Code:** PSSC

Capacity of 60 passengers

## **2.121 Passengers Vehicle classification starting with 'NFS'**

### **NFS 1652**

Details: passenger car 'NFS 1652 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 19.5m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSE

Capacity of 64 passengers

### **NFS 2017**

Details: passenger car 'NFS 2017 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 19.5m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSE

Capacity of 64 passengers

### **NFS 2093**

Details: passenger car 'NFS 2093 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 19.5m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSE

Capacity of 64 passengers

### **NFS 2122**

Details: passenger car 'NFS 2122 V' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 19.5m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**BSG Code:** PSSE

Capacity of 64 passengers

#### **NFS 2124**

Details: passenger car 'NFS 2124 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 19.5m

**Tare Weight:** 40tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1950

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**BSG Code:** PSSE

Capacity of 64 passengers

#### **NFS 2133**

Details: passenger car 'NFS 2133 P' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 19.5m

**Tare Weight:** 40tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Date Built:** 01.01.1950

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**BSG Code:** PSSE

Capacity of 64 passengers

#### **NFS 2134**

Details: passenger car 'NFS 2134 B' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 19.5m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSE

Capacity of 64 passengers

## **2.122 Passengers Vehicle classification starting with 'NHN'**

### **NHN 2197**

Details: passenger car 'NHN 2197 T' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 19.4m  
**Tare Weight:** 45tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**Remarks:** PASSENGER & BRAKE VAN COMP.  
**BSG Code:** PSSZ

Capacity of 52 passengers

### **NHN 2198**

Details: passenger car 'NHN 2198 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** C  
**Length Over Headstocks:** 19.4m  
**Tare Weight:** 41tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2



**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**Remarks:** PASSENGER & BRAKE VAN COMP.  
**BSG Code:** PSSZ

Capacity of 52 passengers

## **2.123 Passengers Vehicle classification starting with 'NOM'**

**NOMU**

**11.09.1987** Reclassified from passenger car 'NOMU G' to passenger car 'JTA 1 Q'.

## **2.124 Passengers Vehicle classification starting with 'NSA'**

**NSAK 812**

Details: passenger car 'NSAK 812 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 21.8m  
**Tare Weight:** 48tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1940  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** PROPER CLASS IS 'AK'.TEST CAR  
**BSG Code:** PSSZ

Capacity of 50 tonnes

## **2.125 Passengers Vehicle classification starting with 'NSS'**

**NSS 34**

Details: passenger car 'NSS 34 X' in AN 'Mainland Division'.

**Owner:** PRRPS  
**Operator:** C  
**Length Over Headstocks:** 18.3m  
**Tare Weight:** 33.4tonne  
**Current Gauge:** Narrow  
**Gauge Restrictions:** N

**Bogie Configuration:** 2X2  
**Original Cost:** \$17060  
**Diagram Book Page No.:** NN 11  
**Date Built:** 20.04.1929  
**Operating System:** PRRPS  
**Intended Use:** PASSENGERS  
**Remarks:** W/O 30.06.95;SOLD PRRPS 27.06.95  
**BSG Code:** PMIZ

Capacity of 10 sleeping

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Return to Service Date:	30.06.1995
Last Lift:	10.10.1975

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**27.06.1995** Repair 'VEHICLE SOLD'.

**30.06.1995** Repair 'VEHICLE RECOMMENDED CONDEMN'.

## **2.126 Passengers Vehicle classification starting with 'OVE'**

**OVEN**

Details: passenger car 'OVEN P' in AN 'Mainland Division'.

**Owner:** VIC  
**Operator:** C  
**Length Over Headstocks:** 21.6m  
**Tare Weight:** 51tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1920  
**Operating System:** V/LINE  
**Intended Use:** PASSENGERS  
**Remarks:** NAMED 'OVENS'  
**BSG Code:** PBSS

Capacity of 12 sleeping

## **2.127 Passengers Vehicle classification starting with 'PEK'**

**PEKI**

Details: passenger car 'PEKI D' in AN 'Mainland Division'.

**Owner:** VIC  
**Length Over Headstocks:** 21.6m

**Tare Weight:** 46tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1920  
**Operating System:** V/LINE  
**Intended Use:** PASSENGER  
**Remarks:** NAMED PEKINA (SLEEPER N0.9)  
**BSG Code:** PBSS

Capacity of 20 sleeping

## **2.128 Passengers Vehicle classification starting with 'PFE'**

### **PFE 2219**

Details: passenger car 'PFE 2219 U' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** D  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1901  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSC

Capacity of 48 passengers

## **2.129 Passengers Vehicle classification starting with 'PUR'**

### **PURP**

**26.11.1987** Reclassified from passenger car 'PURP P' to passenger car 'JRA 4 Q'.

## **2.130 Passengers Vehicle classification starting with 'RBJ'**

### **RBJ 1**

Details: passenger car 'RBJ 1 P' in AN 'Mainland Division'.

**Owner:** AN &V/LINE  
**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 45.8tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Original Cost:** \$51760

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-5

**Date Built:** 01.01.1951

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** COACH WITH CAFE;JOINT STOCK AN-V/LINE

**BSG Code:** PBME

Capacity of 34 passengers

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Return to Service Date:	30.10.1992
Due Triple Valve:	01.04.1995
Last Lift:	21.04.1987

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**01.12.1986** Alteration complete 'FIT BIFURCATED MAIN RESERVOIR AIR LINES TO 3 'RBJ', 4 'PCO'AND 3 CLUB CARS. RBJ 1, 2, 3. CLUB 1, 2, 3. PCO 1, 2, 3, 4. (RS4170)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

**30.10.1992** Repair 'DOOR CLOSERS'.

## **RBJ 2**

Details: passenger car 'RBJ 2 B' in AN 'Mainland Division'.

**Owner:** AN &V/LINE  
**Operator:** C  
**Length Over Headstocks:** 22.9m  
**Tare Weight:** 46.7tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Original Cost:** \$51760  
**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate  
**Diagram Book Page No.:** CB P-5  
**Date Built:** 01.01.1951  
**Operating System:** AN & V/LINE  
**Intended Use:** PASSENGERS  
**Remarks:** COACH WITH CAFE;JOINT STOCK AN-V/LINE  
**BSG Code:** PBME

Capacity of 34 passengers

Return to Service Date:	09.10.1987
Due Triple Valve:	10.10.1995
Last Lift:	09.10.1987

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES. THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

### RBJ 3

Details: passenger car 'RBJ 3 K' in AN 'Mainland Division'.

**Owner:** AN &V/LINE

**Operator:** E

**Length Over Headstocks:** 22.9m

**Tare Weight:** 46.6tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$51760

**Run Restriction:** Unrestricted on gauge(s) shown Inter or Intrastate

**Diagram Book Page No.:** CB P-5

**Date Built:** 01.01.1951

**Operating System:** AN & V/LINE

**Intended Use:** PASSENGERS

**Remarks:** COACH WITH CAFE;JOINT STOCK AN-V/LINE

**BSG Code:** PBME

Capacity of 34 passengers

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Fleet Grp Code:	AH
Return to Service Date:	12.09.1989
Due Triple Valve:	01.07.1997
Last Lift:	31.07.1987

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**01.12.1986** Alteration complete 'FIT BIFURCATED MAIN RESERVOIR AIR LINES TO 3 'RBJ', 4 'PCO'AND 3 CLUB CARS. RBJ 1, 2, 3. CLUB 1, 2, 3. PCO 1, 2, 3, 4. (RS4170)'.

**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**19.11.1987** Alteration complete 'DELETE ALL EXTERIOR 'V & ANR' LETTERING FROM OVERLAND ROLLINGSTOCK. ALL OVERLAND ROLLINGSTOCK. (RS4241)'.

**12.09.1989** Repair 'STEP'.

**12.09.1989** Repair 'WHEEL SET'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

## **2.131 Passengers Vehicle classification starting with 'RBS'**

### **RBS 2160**

Details: passenger car 'RBS 2160 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 20.38m

**Tare Weight:** 40tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 11.09.1989

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** BUFFET CAR ON FLYING SCOTSMAN CONSIST

**BSG Code:** PSSZ

Capacity of 64 passengers

## **2.132 Passengers Vehicle classification starting with 'RDH'**

### **RDH 2233**

Details: passenger car 'RDH 2233 M' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 19.4m

**Tare Weight:** 44tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1960

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** SALOON TYPE WITH BUFFET,IST CLASS SEATS

**BSG Code:** PSSC

Capacity of 30 passengers

## **2.133 Passengers Vehicle classification starting with 'RS'**

### **RS 236**

Details: passenger car 'RS 236 K' in AN 'Mainland Division'.

**Owner:** V/LINE  
**Operator:** D  
**Length Over Headstocks:** 21.9m  
**Tare Weight:** 60tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** V/LINE  
**Intended Use:** PASSENGERS  
**Remarks:** MURRAY CAR  
**BSG Code:** PBSO

Capacity of 48 passengers

### RS 1962

Details: passenger car 'RS 1962 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Operator:** D  
**Length Over Headstocks:** 21.9m  
**Tare Weight:** 60tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1967  
**Operating System:** V/LINE  
**Intended Use:** PASSENGERS  
**Remarks:** SRA OF NSW BUFFET CAR  
**BSG Code:** PSSD

Capacity of 27 passengers

## 2.134 Passengers Vehicle classification starting with 'SBH'

### SBH 2248

Details: passenger car 'SBH 2248 Q' in AN 'Mainland Division'.

**Owner:** SRA  
**Operator:** D  
**Length Over Headstocks:** 21.5m  
**Tare Weight:** 45tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S



**Bogie Configuration:** 2X2  
**Date Built:** 07.05.1992  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSZ

Capacity of 35 passengers

## **2.135 Passengers Vehicle classification starting with 'SBN'**

### **SBN 2195**

Details: passenger car 'SBN 2195 R' in AN 'Mainland Division'.

**Owner:** 3801 LTD  
**Operator:** C  
**Length Over Headstocks:** 19.4m  
**Tare Weight:** 39tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 11.10.1938  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSZ

Capacity of 42 passengers

## **2.136 Passengers Vehicle classification starting with 'SBS'**

### **SBS 2240**

Details: passenger car 'SBS 2240 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 45tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** IST CLASS COACH  
**BSG Code:** PSSZ

Capacity of 48 passengers

**SBS 2243**

Details: passenger car 'SBS 2243 E' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Length Over Headstocks:** 20.6m

**Tare Weight:** 45tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only

**Date Built:** 01.01.1950

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGER

**Remarks:** IST CLASS COACH

**BSG Code:** PSSZ

Capacity of 48 passengers

**SBS 2244**

Details: passenger car 'SBS 2244 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Length Over Headstocks:** 20.6m

**Tare Weight:** 45tonne

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only

**Date Built:** 01.01.1950

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGER

**Remarks:** IST CLASS COACH

**BSG Code:** PSSZ

Capacity of 48 passengers

**SBS 2250**

Details: passenger car 'SBS 2250 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Length Over Headstocks:** 20.6m

**Tare Weight:** 45tonne

**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** IST CLASS COACH  
**BSG Code:** PSSZ

Capacity of 48 passengers

### **SBS 2251**

Details: passenger car 'SBS 2251 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 45tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** IST CLASS COACH  
**BSG Code:** PSSZ

Capacity of 48 passengers

## **2.137 Passengers Vehicle classification starting with 'SCN'**

### **SCN 1739**

Details: passenger car 'SCN 1739 U' in AN 'Mainland Division'.

**Owner:** ARHS  
**Operator:** C  
**Length Over Headstocks:** 20m  
**Tare Weight:** 40tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1938  
**Operating System:** ARHS  
**Intended Use:** PASSENGERS

**BSG Code:** PSSS

Capacity of 14 sleeping

Capacity of 32 passengers

**SCN 1740**

Details: passenger car 'SCN 1740 Q' in AN 'Mainland Division'.

**Owner:** ARHS

**Operator:** C

**Length Over Headstocks:** 20m

**Tare Weight:** 40tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1938

**Operating System:** ARHS

**Intended Use:** PASSENGERS

**BSG Code:** PSSS

Capacity of 14 sleeping

Capacity of 32 passengers

## **2.138 Passengers Vehicle classification starting with 'SDS'**

**SDS 2245**

Details: passenger car 'SDS 2245 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Length Over Headstocks:** 20.6m

**Tare Weight:** 41tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only

**Date Built:** 01.01.1950

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGER

**Remarks:** ONE CLASS COACH

**BSG Code:** PSSZ

Capacity of 60 passengers

### **SDS 2252**

Details: passenger car 'SDS 2252 H' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 41tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** ONE CLASS  
**BSG Code:** PSSZ

Capacity of 60 passengers

### **SDS 2255**

Details: passenger car 'SDS 2255 L' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 41tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** ONE CLASS COACH  
**BSG Code:** PSSZ

Capacity of 60 passengers

### **SDS 2271**

Details: passenger car 'SDS 2271 Y' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 41tonne  
**Current Gauge:** Standard

**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** ONE CLASS COACH  
**BSG Code:** PSSZ

Capacity of 60 passengers

### **SDS 2272**

Details: passenger car 'SDS 2272 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 41tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** ONE CLASS COACH  
**BSG Code:** PSSZ

Capacity of 60 passengers

### **SDS 2273**

Details: passenger car 'SDS 2273 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 41tonne  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** ONE CLASS COACH  
**BSG Code:** PSSZ

Capacity of 60 passengers

**SDS 2276**

Details: passenger car 'SDS 2276 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Length Over Headstocks:** 20.6m

**Tare Weight:** 41tonne

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only

**Date Built:** 01.01.1950

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGER

**Remarks:** ONE CLASS COACH

**BSG Code:** PSSZ

Capacity of 60 passengers

**SDS 2278**

Details: passenger car 'SDS 2278 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Length Over Headstocks:** 20.6m

**Tare Weight:** 41tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only

**Date Built:** 01.01.1950

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGER

**Remarks:** ONE CLASS COACH

**BSG Code:** PSSZ

Capacity of 60 passengers

**SDS 2279**

Details: passenger car 'SDS 2279 R' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Length Over Headstocks:** 20.6m

**Tare Weight:** 41tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only

**Date Built:** 01.01.1950

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGER

**Remarks:** ONE CLASS COACH

**BSG Code:** PSSZ

Capacity of 60 passengers

### **SDS 2280**

Details: passenger car 'SDS 2280 N' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Length Over Headstocks:** 20.6m

**Tare Weight:** 41tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only

**Date Built:** 01.01.1950

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGER

**Remarks:** ONE CLASS COACH

**BSG Code:** PSSZ

Capacity of 60 passengers

### **SDS 2284**

Details: passenger car 'SDS 2284 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Length Over Headstocks:** 20.6m

**Tare Weight:** 41tonne

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only

**Date Built:** 01.01.1950

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGER

**Remarks:** ONE CLASS COACH

**BSG Code:** PSSZ

Capacity of 60 passengers



**SDS 2288**

Details: passenger car 'SDS 2288 Q' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 41tonne  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** ONE CLASS COACH  
**BSG Code:** PSSZ

Capacity of 60 passengers

**2.139 Passengers Vehicle classification starting with 'SDZ'****SDZ 2287**

Details: passenger car 'SDZ 2287 F' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 44tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** IST CLASS COACH  
**BSG Code:** PSSZ

Capacity of 57 passengers

**SDZ 2289**

Details: passenger car 'SDZ 2289 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 44tonne

**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** IST CLASS COACH  
**BSG Code:** PSSZ

Capacity of 57 passengers

## **2.140 Passengers Vehicle classification starting with 'SFN'**

### **SFN 2182**

Details: passenger car 'SFN 2182 N' in AN 'Mainland Division'.

**Owner:** 3801 LTD  
**Operator:** C  
**Length Over Headstocks:** 19.4m  
**Tare Weight:** 39.6tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1938  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSD

Capacity of 64 passengers

## **2.141 Passengers Vehicle classification starting with 'SFS'**

### **SFS 2265**

Details: passenger car 'SFS 2265 A' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 46tonne  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW

**Intended Use:** PASSENGER  
**Remarks:** ECONOMY CLASS COACH  
**BSG Code:** PSSZ

Capacity of 57 passengers

#### **SFS 2266**

Details: passenger car 'SFS 2266 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 46tonne  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** ECONOMY CLASS COACH  
**BSG Code:** PSSZ

Capacity of 57 passengers

#### **SFS 2270**

Details: passenger car 'SFS 2270 J' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 46tonne  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** ECONOMY CLASS COACH  
**BSG Code:** PSSZ

Capacity of 57 passengers

#### **SFS 2274**

Details: passenger car 'SFS 2274 W' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 46tonne  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** ECONOMY CLASS COACH  
**BSG Code:** PSSZ

Capacity of 57 passengers

### **SFS 2275**

Details: passenger car 'SFS 2275 X' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 46tonne  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** ECONOMY CLASS COACH  
**BSG Code:** PSSZ

Capacity of 57 passengers

### **SFS 2277**

Details: passenger car 'SFS 2277 D' in AN 'Mainland Division'.

**Owner:** SRA OF NSW  
**Length Over Headstocks:** 20.6m  
**Tare Weight:** 46tonne  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Run Restriction:** Restricted to Port Pirie - Broken Hill Section only  
**Date Built:** 01.01.1950  
**Operating System:** SRA OF NSW  
**Intended Use:** PASSENGER  
**Remarks:** ECONOMY CLASS COACH

**BSG Code:** PSSZ

Capacity of 57 passengers

**SFS 2283**

**27.07.1990** Reclassified from passenger car 'SFS 2283 V' to passenger car 'NDS 2283 M'.

## **2.142 Passengers Vehicle classification starting with 'SJ'**

**SJ 282**

Details: passenger car 'SJ 282 U' in AN 'Mainland Division'.

**Owner:** V/LINE

**Operator:** C

**Length Over Headstocks:** 23m

**Tare Weight:** 53tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1970

**Operating System:** V/LINE

**Intended Use:** PASSENGERS

**BSG Code:** PBSR

Capacity of 40 passengers

## **2.143 Passengers Vehicle classification starting with 'SLE'**

**SLEE 3**

Details: passenger car 'SLEE 3 N' in AN 'Mainland Division'.

**Owner:** VIC

**Length Over Headstocks:** 21.6m

**Tare Weight:** 55tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1920

**Operating System:** V/LINE

**Intended Use:** PASSENGER

**BSG Code:** PBSS

Capacity of 55 tonnes

## 2.144 Passengers Vehicle classification starting with 'SS'

### SS 44

Details: passenger car 'SS 44 K' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D

**Length Over Headstocks:** 23.3m

**Tare Weight:** 50tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$23010

**Diagram Book Page No.:** NS 24

**Date Built:** 03.07.1920

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** SPECIAL SERVICE CAR

**BSG Code:** PSIZ

Capacity of 18 passengers

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Fleet Grp Code:	AH
Return to Service Date:	30.09.1992
Last Lift:	31.10.1979

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**17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.

**20.08.1987** Alteration 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.

**26.08.1987** Alteration 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.

**21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.

**15.02.1991** Alteration 'FIT HEAVY DUTY DRAFT GEAR AND SLACK CONTROL COUPLERS TO SPECIAL SERVICES CAR SS-44. (RS4573)'.

**28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

**21.10.1991** Repair 'AIR BRAKE SYSTEM COMPLETE'.

**21.10.1991** Repair 'BOGIE COMPLETE'.

**21.10.1991** Repair 'CONCERTINA (PASS.)'.

- 21.10.1991** Repair 'COUPLER KNUCKLE'.  
**21.10.1991** Repair 'DRAFTGEAR COMPLETE HEAVY'.  
**21.10.1991** Repair 'END COMPLETE'.  
**21.10.1991** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.  
**21.10.1991** Repair 'HEADSTOCK'.  
**21.10.1991** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.  
**21.10.1991** Repair 'OTHER (NOT ELSEWHERE SPECIFIED)'.  
**21.10.1991** Repair 'TRAIN PIPE'.  
**21.10.1991** Repair 'UNCOUPLING ROD ASSEMBLY'.  
**30.09.1992** Repair 'HOSE FITTINGS'.  
**11.11.1992** Alteration '1. B.I AND FIT CONSTANT CONTACT SIDEBEARERS. 2. EXTEND COLLISION BEAMS AND PLUNGERS. 3. ADJUST CONCERTINAS AND RUBBERS 4. MODIFY WATER SERVICE, INCORPORATE WATER LOW LEVEL SWITCH. 5. CUT TWO (2) EXTRA KEYS. SS44 (RS4747)'.

## 2.145 Passengers Vehicle classification starting with 'SSA'

### SSA 260

Details: passenger car 'SSA 260 H' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** D

**Length Over Headstocks:** 22.9m

**Tare Weight:** 45.7tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$146300

**Diagram Book Page No.:** NS 25

**Date Built:** 03.03.1969

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** SPECIAL SERVICE CAR

**BSG Code:** PSIZ

Capacity of 12 passengers

Fleet Grp Code:	AH
Return to Service Date:	09.11.1992
Last Single Car Test:	02.08.1988
Last Lift:	07.08.1988

**27.08.1982** Alteration 'MODIFY HANDBRAKE PULLEY ON STAINLESS STEEL CARS. (16s82)'.

**10.03.1986** Alteration complete 'FIT TELESCOPIC GAS SPRING TO VESTIBULE FLAP OF STAINLESS STEEL PASSENGER CARS. ARL, ARM, ARJ, BRJ, ER, SSA. (RS4109)'.

- 13.06.1986** Alteration complete 'REPLACE SIDE STEM SPRINGS ON CONCERTINAS TO INCREASE CLOSING FORCE. (RS4128)'.
- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 19.03.1987** Alteration complete 'INSTALLATION OF EMERGENCY KEY BOXES TO PASSENGER CARS. (RS4190)'.
- 20.08.1987** Alteration complete 'MODIFY BUFFER BEAM ON CARBON AND STAINLESS STEEL PASSENGER CARS. (RS4215)'.
- 26.08.1987** Alteration complete 'MODIFY AIR CONDITIONING INTAKE FILTERS AND FRAMES (PRIMARY AND SECONDARY) ON STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4213)'.
- 15.03.1988** Alteration 'MODIFY BUFFER BEAMS AND FIT ADDITIONAL SPRINGS TO EITHER SIDE OF THE COUPLER TO INCREASE THE DIAPHRAGM COMPRESSIVE FORCE ON ALL STAINLESS STEEL AND CARBON STEEL PASSENGER CARS. (RS4270)'.
- 22.06.1988** Alteration complete 'UPGRADE SPECIAL SERVICES CAR 'SSA 260' TO INCLUDE A) INCREASE SIZE OF BEDS IN MASTER BEDROOM B) REPLACE EXISTING COMMUNICATIONS EQUIPMENT WITH HI-FI SYSTEM INCLUDING TUNER,AMPLIFIER,CASSETTE DECK,COMPACT DISK PLAYER & SPEAKERS C) INSTALL T.V. MONITOR & VIDEO CASSTTE RECORDER IN LOUNGE. (RS4295)'.
- 21.06.1990** Alteration 'FIT LONGER PIN IN PASSENGER CAR JUMPER CABLE PLUGS. ALL PASSENGER CARS. (RS4518)'.
- 28.05.1991** Alteration 'REPLACE EXISTING EXHAUST CHOKES ON 132 NO. 'GHAN' 'TRANS-AUSTRALIAN' 'OVERLAND', 'SS' & 'SSA' CARS TO IMPROVE TRAIN HANDLING. ALL STD CARS TO BE FITTED WITH EXHAUST CHOKES TO WH P/NO. 2483 & THE 3 NO. RELAY BRAKED CARS ARE TO BE FITTED WITH WH P/NO. C-12740 EXHAUST CHOKES . THIS MODIFICATION WILL INCREASE BRAKE CYLINDER EXHAUST TIMINGS FROM 6-9 SECS TO 26-28 SECS. (RS4603)'.

## SSAF 27

Details: passenger car 'SSAF 27 C' in AN 'Mainland Division'.

**Owner:** AN

**Operator:** C

**Length Over Headstocks:** 19.9m

**Tare Weight:** 34tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Original Cost:** \$8950

**Diagram Book Page No.:** NN 28

**Date Built:** 20.10.1917

**Operating System:** AN

**Intended Use:** PASSENGERS

**Remarks:** EX NAF;1ST CLASS LOUNGE



**BSG Code:** PSIZ

Capacity of 44 passengers

Return to Service Date:	19.05.1992
Last Triple Valve:	29.04.1992
Last Brake Cylinder:	29.04.1992
Last Lift:	08.03.1961

- 17.12.1986** Alteration complete 'APPLY CHECK LETTER TO CLASS & NUMBER OF APPROXIMATELY 443 LOCOMOTIVES, PASSENGER CARS AND RAIL CARS. CLASSIFY OVERLAND SLEEPING CARS. (RS4173)'.
- 21.11.1991** Alteration complete 'CONVERT NAF27 TO STANDARD GAUGE, UPGRADE INTERIOR AND RECLASSIFY CAR TO 'SSAF 27C'. NAF27 (RS4657)'. New class: 'SSAF'.
- 29.04.1992** Repair 'AIR BRAKE SYSTEM COMPLETE'.
- 29.04.1992** Repair 'BOGIE BEARERS'.
- 29.04.1992** Repair 'BOGIE COMPLETE'.
- 29.04.1992** Repair 'BRAKE PULL ROD'.
- 29.04.1992** Repair 'COMPLETE TRIPLE VALVE - 'W' OR 'D&M'.
- 29.04.1992** Repair 'END HOSE'.
- 29.04.1992** Repair 'HAND BRAKE ASSEMBLY COMPLETE'.
- 29.04.1992** Repair 'OTHER BRAKE CYLINDER COMPLETE'.
- 29.04.1992** Repair 'TRAIN PIPE'.
- 29.04.1992** Repair 'VEHICLE CHECK LETTER ADDED'.
- 29.04.1992** Repair 'VEHICLE RECLASSIFY'.
- 29.04.1992** Repair 'WHEEL SET'.
- 29.04.1992** Issued at location 'Port Augusta' with a previous code of passenger car 'NAF 27 V'.
- 11.11.1992** Alteration '1. EXTEND PLUNGER BARS, ADJUST CONCERTINAS & RUBBERS. 2. ADJUST SPRINGING A/C DROOPING. 3. LOCTITE SCREW IN LIGHT GLASSES. SSAF27. (RS4748)'.

## 2.146 Passengers Vehicle classification starting with 'SSD'

### SSD 2

Details: passenger car 'SSD 2 S' in AN 'Tasmania Division'.

**Owner:** DON RIVER**Operator:** C**Length Over Headstocks:** 14.3m**Tare Weight:** 18.7tonne**Current Gauge:** Narrow**Gauge Restrictions:** N**Bogie Configuration:** 2X2**Date Built:** 01.01.1964**Operating System:** DON RIVER RAILWAY**Intended Use:** PASSENGERS

**Remarks:** VAN DIEMAN LIGHT RAILWAY

**BSG Code:** PTSZ

Capacity of 100 passengers

### **SSD 7**

Details: passenger car 'SSD 7 R' in AN 'Tasmania Division'.

**Owner:** DON RIVER

**Operator:** C

**Length Over Headstocks:** 14.3m

**Tare Weight:** 18.7tonne

**Current Gauge:** Narrow

**Gauge Restrictions:** N

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1963

**Operating System:** DON RIVER RAILWAY

**Intended Use:** PASSENGERS

**Remarks:** VAN DIEMAN LIGHT RAILWAY

**BSG Code:** PTSZ

Capacity of 100 passengers

## **2.147 Passengers Vehicle classification starting with 'SX'**

### **SX 1664**

Details: passenger car 'SX 1664 P' in AN 'Mainland Division'.

**Owner:** QLD RAIL

**Operator:** D

**Length Over Headstocks:** 16.9m

**Tare Weight:** 23.6tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1950

**Operating System:** WESTRAIL

**Intended Use:** PASSENGERS

**BSG Code:** PSSZ

Capacity of 56 passengers

### **SX 1665**

Details: passenger car 'SX 1665 B' in AN 'Mainland Division'.

**Owner:** QLD RAILW

**Length Over Headstocks:** 16.9m

**Tare Weight:** 23.6tonne

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Diagram Book Page No.:** F1-04

**Date Built:** 01.01.1950

**Operating System:** WESTRAIL

**Intended Use:** PASSENGER

**Remarks:** ON LOAN TO WAGR A/C AMERICA'S CUP

**BSG Code:** PSSZ

Capacity of 56 passengers

### **SX 1666**

Details: passenger car 'SX 1666 K' in AN 'Mainland Division'.

**Owner:** QLD RAILWA

**Length Over Headstocks:** 16.9m

**Tare Weight:** 23.6tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Diagram Book Page No.:** F1-04

**Date Built:** 01.01.1950

**Operating System:** WESTRAIL

**Intended Use:** PASSENGER

**Remarks:** ON LOAN TO WAGR A/C AMERICA'S CUP

**BSG Code:** PSSZ

Capacity of 56 passengers

### **SX 1667**

Details: passenger car 'SX 1667 T' in AN 'Mainland Division'.

**Owner:** QLD RAILWA

**Length Over Headstocks:** 16.9m

**Tare Weight:** 23.6tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2  
**Diagram Book Page No.:** F1-04  
**Date Built:** 01.01.1950  
**Operating System:** WESTRAIL  
**Intended Use:** PASSENGER  
**Remarks:** ON LOAN TO WAGR A/C AMERICA'S CUP  
**BSG Code:** PSSZ

Capacity of 56 passengers

### **SX 1668**

Details: passenger car 'SX 1668 F' in AN 'Mainland Division'.

**Owner:** QLD RAILWA  
**Length Over Headstocks:** 16.9m  
**Tare Weight:** 23.6tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Diagram Book Page No.:** F1-04  
**Date Built:** 01.01.1950  
**Operating System:** WESTRAIL  
**Intended Use:** PASSENGER  
**Remarks:** ON LOAN TO WAGR A/C AMERICA'S CUP  
**BSG Code:** PSSZ

Capacity of 56 passengers

### **SX 1669**

Details: passenger car 'SX 1669 Y' in AN 'Mainland Division'.

**Owner:** QLD RAILWA  
**Operator:** D  
**Length Over Headstocks:** 16.9m  
**Tare Weight:** 23.6tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1950  
**Operating System:** WESTRAIL  
**Intended Use:** PASSENGERS  
**BSG Code:** PSSZ

Capacity of 56 passengers

### **SX 1727**

Details: passenger car 'SX 1727 R' in AN 'Mainland Division'.

**Owner:** QLD RAILWA  
**Length Over Headstocks:** 16.9m  
**Tare Weight:** 23.6tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Diagram Book Page No.:** F1-04  
**Date Built:** 01.01.1950  
**Operating System:** WESTRAIL  
**Intended Use:** PASSENGER  
**Remarks:** ON LOAN TO WAGR A/C AMERICA'S CUP  
**BSG Code:** PSSZ

Capacity of 40 passengers

### **SX 1728**

Details: passenger car 'SX 1728 D' in AN 'Mainland Division'.

**Owner:** QLD RAILWA  
**Length Over Headstocks:** 16.9m  
**Tare Weight:** 23.6tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Diagram Book Page No.:** F1-04  
**Date Built:** 01.01.1950  
**Operating System:** WESTRAIL  
**Intended Use:** PASSENGER  
**Remarks:** ON LOAN TO WAGR A/C AMERICA'S CUP  
**BSG Code:** PSSZ

Capacity of 56 passengers

### **SX 1729**

Details: passenger car 'SX 1729 M' in AN 'Mainland Division'.

**Owner:** QLD RAILWA  
**Length Over Headstocks:** 16.9m  
**Tare Weight:** 23.6tonne  
**Current Gauge:** Standard

**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Diagram Book Page No.:** F1-04  
**Date Built:** 01.01.1950  
**Operating System:** WESTRAIL  
**Intended Use:** PASSENGER  
**Remarks:** ON LOAN TO WAGR A/C AMERICA'S CUP  
**BSG Code:** PSSZ

Capacity of 56 passengers

### **SX 1730**

Details: passenger car 'SX 1730 X' in AN 'Mainland Division'.

**Owner:** QLD RAILWA  
**Length Over Headstocks:** 16.9m  
**Tare Weight:** 23.6tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Diagram Book Page No.:** F1-04  
**Date Built:** 01.01.1950  
**Operating System:** WESTRAIL  
**Intended Use:** PASSENGER  
**Remarks:** ON LOAN TO WAGR A/C AMERICA'S CUP  
**BSG Code:** PSSZ

Capacity of 56 passengers

### **SX 1731**

Details: passenger car 'SX 1731 R' in AN 'Mainland Division'.

**Owner:** QLD RAILWA  
**Length Over Headstocks:** 16.9m  
**Tare Weight:** 23.6tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Diagram Book Page No.:** F1-04  
**Date Built:** 01.01.1950  
**Operating System:** WESTRAIL  
**Intended Use:** PASSENGER  
**Remarks:** ON LOAN TO WAGR A/C AMERICA'S CUP  
**BSG Code:** PSSZ

Capacity of 56 passengers

## **2.148 Passengers Vehicle classification starting with 'SXV'**

### **SXV 1663**

Details: passenger car 'SXV 1663 D' in AN 'Mainland Division'.

**Owner:** QLD RAILWA

**Length Over Headstocks:** 16.9m

**Tare Weight:** 23.6tonne

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Diagram Book Page No.:** F1-04

**Date Built:** 01.01.1950

**Operating System:** WESTRAIL

**Intended Use:** PASSENGER

**Remarks:** ON LOAN TO WAGR A/C AMERICA'S CUP

**BSG Code:** PSSZ

Capacity of 40 passengers

### **SXV 1665**

Details: passenger car 'SXV 1665 V' in AN 'Mainland Division'.

**Owner:** QLD RAILWA

**Operator:** D

**Length Over Headstocks:** 16.9m

**Tare Weight:** 23.6tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1950

**Operating System:** WESTRAIL

**Intended Use:** PASSENGERS

**BSG Code:** PSSZ

Capacity of 40 passengers

### **SXV 1669**

Details: passenger car 'SXV 1669 L' in AN 'Mainland Division'.

**Owner:** QLD RAILWA

**Length Over Headstocks:** 16.9m

**Tare Weight:** 23.6tonne  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Diagram Book Page No.:** F1-04  
**Date Built:** 01.01.1950  
**Operating System:** WESTRAIL  
**Intended Use:** PASSENGER  
**Remarks:** ON LOAN TO WAGR A/C AMERICA'S CUP  
**BSG Code:** PSSZ

Capacity of 40 passengers

### **SXV 1726**

Details: passenger car 'SXV 1726 F' in AN 'Mainland Division'.

**Owner:** QLD RAILWA  
**Length Over Headstocks:** 16.9m  
**Tare Weight:** 23.6tonne  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Diagram Book Page No.:** F1-04  
**Date Built:** 01.01.1950  
**Operating System:** WESTRAIL  
**Intended Use:** PASSENGER  
**Remarks:** ON LOAN TO WAGR A/C AMERICA'S CUP  
**BSG Code:** PSSZ

Capacity of 40 passengers

### **SXV 1732**

Details: passenger car 'SXV 1732 A' in AN 'Mainland Division'.

**Owner:** QLD RAILWA  
**Length Over Headstocks:** 16.9m  
**Tare Weight:** 23.6tonne  
**Current Gauge:** Standard  
**Gauge Restrictions:** S  
**Bogie Configuration:** 2X2  
**Diagram Book Page No.:** F1-04  
**Date Built:** 01.01.1950  
**Operating System:** WESTRAIL  
**Intended Use:** PASSENGER  
**Remarks:** ON LOAN TO WAGR A/C AMERICA'S CUP  
**BSG Code:** PSSZ



Capacity of 40 passengers

## **2.149 Passengers Vehicle classification starting with 'SZ'**

### **SZ 287**

Details: passenger car 'SZ 287 F' in AN 'Mainland Division'.

**Owner:** V/LINE

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 61tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1950

**Operating System:** V/LINE

**Intended Use:** PASSENGERS

**Remarks:** TWINETTE SLEEPER

**BSG Code:** PBSS

Capacity of 40 passengers

## **2.150 Passengers Vehicle classification starting with 'TAM'**

### **TAMB**

Details: passenger car 'TAMB A' in AN 'Mainland Division'.

**Owner:** ARHS

**Operator:** C

**Length Over Headstocks:** 21.7m

**Tare Weight:** 40tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Run Restriction:** Restricted to Broad Gauge only

**Date Built:** 01.01.1920

**Operating System:** ARHS

**Intended Use:** PASSENGERS

**Remarks:** NAMED TAMBO;SLEEPING CARRIAGE

**BSG Code:** PBSS

Capacity of 18 passengers

## **2.151 Passengers Vehicle classification starting with 'TAN'**

### **TANT**

**26.11.1987** Reclassified from passenger car 'TANT G' to passenger car 'JRB 2 B'.

## **2.152 Passengers Vehicle classification starting with 'TAP'**

### **TAP 501**

Details: passenger car 'TAP 501 W' in AN 'Mainland Division'.

**Owner:** B.MUNRO

**Operator:** C

**Length Over Headstocks:** 20.8m

**Tare Weight:** 44.3tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1937

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** NAMED 'TA 501' FOR TERRA AUSTRALISEX501

**BSG Code:** PSTE

Capacity of 6 passengers

## **2.153 Passengers Vehicle classification starting with 'TAR'**

### **TARK**

**22.07.1987** Reclassified from passenger car 'TARK F' to passenger car 'JRA 6 L'.

## **2.154 Passengers Vehicle classification starting with 'VRS'**

### **VRS 232**

Details: passenger car 'VRS 232 K' in AN 'Mainland Division'.

**Owner:** V/LINE

**Operator:** C

**Length Over Headstocks:** 21.9m

**Tare Weight:** 50tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1980

**Operating System:** V/LINE  
**Intended Use:** PASSENGERS  
**BSG Code:** PBIE

Capacity of 27 passengers

Capacity of 27 passengers

### **VRS 233**

Details: passenger car 'VRS 233 T' in AN 'Mainland Division'.

**Owner:** V/LINE  
**Operator:** C  
**Length Over Headstocks:** 21.9m  
**Tare Weight:** 50tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1980  
**Operating System:** V/LINE  
**Intended Use:** PASSENGERS  
**BSG Code:** PBIE

Capacity of 27 passengers

## **2.155 Passengers Vehicle classification starting with 'WAN'**

### **WAND**

Details: passenger car 'WAND Y' in AN 'Mainland Division'.

**Owner:** VIC  
**Length Over Headstocks:** 21.6m  
**Tare Weight:** 46tonne  
**Current Gauge:** Broad  
**Gauge Restrictions:** B  
**Bogie Configuration:** 2X2  
**Date Built:** 01.01.1920  
**Operating System:** V/LINE  
**Intended Use:** PASSENGER  
**Remarks:** NAMED WANDO (SLEEPER N0.5)  
**BSG Code:** PBSS

Capacity of 20 sleeping

## **2.156 Passengers Vehicle classification starting with 'WER'**

### **WERO**

**09.09.1987** Reclassified from passenger car 'WERO J' to passenger car 'JTB 3 Y'.

### **WERR**

Details: passenger car 'WERR V' in AN 'Mainland Division'.

**Owner:** VICTORIA

**Operator:** C

**Length Over Headstocks:** 22.9m

**Tare Weight:** 50.2tonne

**Current Gauge:** Broad

**Gauge Restrictions:** B

**Bogie Configuration:** 2X2

**Date Built:** 23.03.1951

**Operating System:** V/LINE

**Intended Use:** PASSENGERS

**Remarks:** NAMED WERRIBEE

**BSG Code:** PBSS

Capacity of 20 sleeping

## **2.157 Passengers Vehicle classification starting with 'XAM'**

### **XAM 1888**

Details: passenger car 'XAM 1888 K' in AN 'Mainland Division'.

**Owner:** SRA OF NSW

**Operator:** C

**Length Over Headstocks:** 21.8m

**Tare Weight:** 50tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1980

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** SLEEPING CAR

**BSG Code:** PSSS

Capacity of 20 sleeping

## **2.158 Passengers Vehicle classification starting with 'XFS'**

### **XFS 2015**

Details: passenger car 'XFS 2015 U' in AN 'Mainland Division'.

**Owner:** 3801 LTD

**Operator:** C

**Length Over Headstocks:** 19.8m

**Tare Weight:** 36.5tonne

**Current Gauge:** Standard

**Gauge Restrictions:** S

**Bogie Configuration:** 2X2

**Date Built:** 01.01.1938

**Operating System:** SRA OF NSW

**Intended Use:** PASSENGERS

**Remarks:** SHOWN AS 'FS 2015'

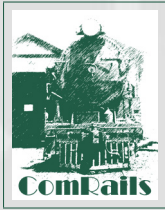
**BSG Code:** PSSZ

Capacity of 64 passengers

## **2.159 Passengers Vehicle classification starting with 'YAN'**

### **YANN**

**26.03.1987** Reclassified from passenger car 'YANN K' to passenger car 'JTA K'.



**TIMS5**

## **APPENDIX**

<b>A</b>	<b>Abbreviations and Glossary of Terms</b>	<b>485</b>
<b>B</b>	<b>References and Bibliography</b>	<b>509</b>



## ABBREVIATIONS AND GLOSSARY OF TERMS

### A

**AAR wheel arrangement** The AAR wheel arrangement system is a method of classifying locomotive wheel arrangements that was developed by the Association of American Railroads. It is similar to the European UIC classification, and it is widely used in North America to describe diesel and electric locomotives. It is not used for steam locomotives; instead, the Whyte notation is used. This system counts axles instead of wheels. Letters refer to powered axles, and numbers to unpowered axles. 'A' refers to one powered axle, 'B' to two powered axles in a row, 'C' to three powered axles in a row, and 'D' to four powered axles in a row. '1' refers to one idler axle, and '2' to two idler axles in a row. A dash ('-') separates trucks, or wheel assemblies. A plus sign ('+') refers to articulation.

Examples are: A1A-A1A, B-1, B-A1A, D-D, 2-D+D-2.

**Air Brake** This is the most common type of train brake. It was used on both the South Australian and Commonwealth Railways.

**Air Suspension** The bogie of a vehicle is fitted with rubber air cushions or bags. Compressed air is fed into the bags under the control of a valve to ensure the correct pressure is maintained.

**A.L.A.R.C** See Australian Locomotive and Railway Carriage Company.

**Alice, The** Inaugrated on 21<sup>st</sup> November 1983, The Alice was promoted as an all first class journey between Sydney and Alice Springs. No economy seating was provided on the train. Poor patronage lead to the service being terminated on 2 November 1987

**A.N.** See Australian National.

**A.N.R.C.** See Australian National Railway Commission.

**A.R.H.S. (SteamRanger)** Australian Railway Historical Society. In South Australia they operate train services under the name SteamRanger.

**A.R.T.C.** See Australian Rail Track Corporation.

**Articulated Vehicle** Two adjacent railway vehicles are mounted on one bogie. It has the benefit of reducing the number of bogies required for a train and hence the weight and maintenance requirements.

**A.S.R.** See Australia Southern Railway.

**AustralAsia Railway Corporation** The AustralAsia Railway Corporation is a statutory body established under the AustralAsia Railway Corporation Act 1996 and supported by South Australia through complementary legislation. The Corporation was established in 1997 by the Northern Territory and South Australian Governments to manage the awarding of a Build, Own, Operate and Transfer back (BOOT) concession and to enter into contractual arrangements with the successful consortium for the construction of the rail line from Alice Springs to Darwin.

**Australian Locomotive & Railway Carriage Company** (*Murraylander*) The Australian Loco & Railway Carriage Company was formed in 1999 by Steve Moritz, Bob Buttrims and Bruce Roberts to take over the operational assets of the *Murraylander*. A joint venture company was formed on a 50/50 basis by Aust Locomotive & Railway Carriage Co. and the Victorian Railway Co (trading as West Coast Railway) to operate the *Murraylander* and various other charters. They are also a rollingstock provider specialising in the hire of power vans, crew cars and passenger carriages for use on the standard gauge systems.

**Australian National (A.N.)** This was the operating business name of the 'Australian National Railway Commission', which was owned by the Commonwealth of Australia.

**Australian National Railway Commission (A.N.R.C.)** This railway organisation was owned by the Commonwealth of Australia. Its operations extended from Kalgoorlie to Alice Springs and to the borders with Victoria and New South Wales, as well as all railways in the state of Tasmania. It was formed in 1975 from the former Commonwealth, South Australian (non-suburban) and Tasmanian railways. It traded under the name *Australian National*.

Australian National Railways took over the operation of the country passenger and goods services in South Australia as from 1<sup>st</sup> March 1978. In 1997 the freight business was sold to Australia Southern Railroad and the passenger business to Great Southern Railroad.

**Asia Pacific Transport Consortium** In 2000, the AustralAsia Rail Corporation awarded the contract to build and operate the Adelaide to Darwin



railway line as a Build, Own, Operate and Transfer back project to the the Asia Pacific Transport Consortium, which consists of: Kellogg Brown & Root, John Holland Group, Carillion, Macmahon Holdings & Australian Railroad Group. The Asia Pacific Transport Consortium contracted FreightLink to implement the project and to operate the railway. The Asia Pacific Transport Consortium leases some assets on the Darwin - Alice Springs section from the AustralAsia Rail Corporation, and subleases of the Alice Springs - Tarcoola, South Australia railway from the Australian Government through the AustralAsia Rail Corporation.

**Australian Rail Track Corporation (A.R.T.C.)** The interstate rail corridors operated by *Australian National* were transferred to the Australian Rail Track Corporation as part of the 1997 sale. The Australian Rail Track Corporation, which is owned by the Commonwealth of Australia, commenced full operation on 1 July 1998.

Since formation it has negotiated various agreements gaining it access to the main rail corridors from Perth to Brisbane.

**Australia Southern Railroad (A.S.R.)** The freight business of *Australian National* was sold to the Australia Southern Railroad, a consortium consisting of Genesee and Wyoming Inc, and Clyde Engineering and Transfield, on 28 August 1997. They took over operation from 8 November 1997.

**Axle** The circular shaft connecting two wheels.

**Axlebox** The axlebox attaches the axle end to the bogie frame. The axle rotates within the axlebox allowing the wheel to turn.

**Axle Load** The weight that is applied by one axle, on a carriage or engine, to the track. Generally axle load refers to the maximum weight permitted on a single axle.

## B

**Ballast** The material most commonly used to form the road bed of a railway track. It usually consists of crushed rock.

**Bogie** A bogie is the name given to the structure that holds 4 or 6 wheels in pairs under one end a railway vehicles. It rotates on a pivot that allows it to turn and follow curves in the track.

**Broad Gauge** A broad gauge railway has track 5 foot 3 inches (1600mm) spacing between rails.

## C

**C.A.R.** See Central Australia Railway.

**Caboose** A term used in the United States to describe a brake van.

**Central Australia Railway (C.A.R.)** The Central Australia Railway extended from Port Augusta through Quorn and Marree to Alice Springs (originally called Stuart until the name changed on 26<sup>th</sup> January 1932). It was narrow gauge. The railway was originally built to Oodnadatta by the South Australian Railways and transferred to Commonwealth ownership on 1<sup>st</sup> January 1911. The South Australian Railways continued to operate the line until operation was taken over by the Commonwealth Railways from 1926.



The Ghan in Heavitree Gap, circa 1930 (*Chris Drymalik Collection*)

In 1926 construction began on the Oodnadatta to Alice Springs section of the line, a distance of approximately 292 miles. The line opened to rail traffic on 2<sup>nd</sup> August 1929, with the first passenger train arriving shortly after 2pm on 6 August. It had been scheduled to arrive at 9:30am.

The old Central Australia Railway was replaced by the Tarcoola to Alice Springs Railway in 1980.

**C.L.T.B.** See Commonwealth of Australia Land Transport Board.

**COMENG** Commonwealth Engineering Pty Ltd, Granville, N.S.W.,



The Ghan with original cars

**Commonwealth of Australia Land Transport Board (C.L.T.B.)** The Commonwealth of Australia Land Transport Board was formed during World War II to control the movement of Transport in Australia. It was responsible for providing various rollingstock items to the Commonwealth railways on loan to facilitate the war effort.



C 67 Port Augusta, circa 1936

**Commonwealth Railways (C.R.)** The 'Commonwealth Railways' were owned by the Commonwealth of Australia. They were set up initially to operate the railway from Port Augusta to Kalgoorlie (Trans-Australian Railway), but eventually took over the operation of the line to Alice Springs (Central Australia Railway) and Darwin (North Australia Railway) lines as well. They were amalgamated with the 'South Australian Railway' in 1975 to form 'Australian National'.

**C.R.** See Commonwealth Railways.

## D

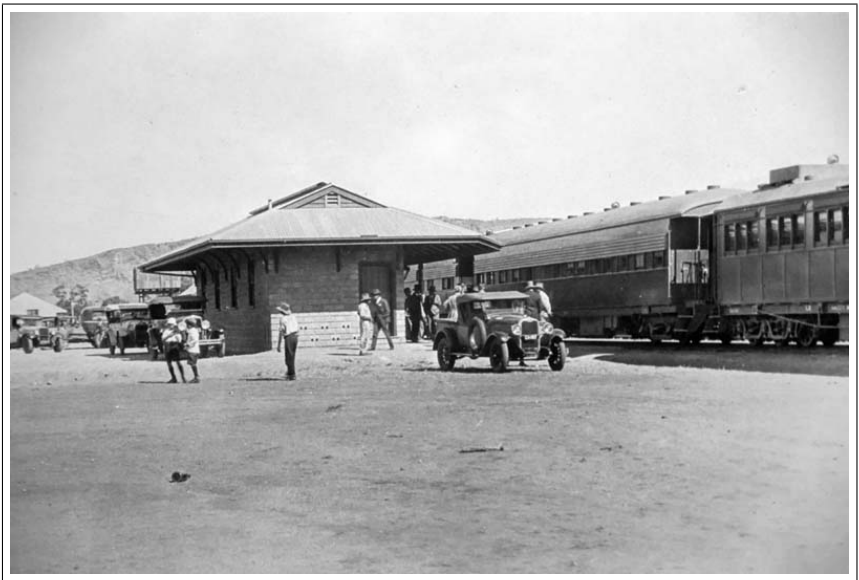
**Driving Trailer** An unpowered passenger vehicle with a driver's cab, at one or both ends, used to remotely control a power car or locomotive.

**Dynamic Braking** A train braking system that use the traction motors of the locomotive as generators to retard the train speed.

## F

**FreightLink** FreightLink is a railway freight operator the Adelaide-Darwin railway. In May 2008 the Consortium of banks and infrastructure companies behind Freightlink decided to sell the railway and its operating company. During November 2008 the company was placed into voluntary administration.

## G



Ghan at Alice Springs, circa 1930 (*Chris Drymalik Collection*)

**Ghan, The** *The Ghan* train commenced operation for the Commonwealth Railways when they took over the narrow gauge Central Australia Railway from the South Australian Railways in 1926. It ran between Port Augusta and Oodnadatta initially, being extended to Alice Springs in 1929.



The Ghan outside Heavitree Gap, circa 1930 (*Chris Drymalik Collection*)

When the new standard gauge Marree line opened in 1957 the journey was broken into two. A standard gauge run from Port Pirie to Marree, with the rest of the journey remaining on narrow gauge.

Following completion of the standard gauge Tarcoola to Alice Springs line in 1980, the train was rerouted becoming an all standard gauge journey from Port Pirie using only modern rollingstock in the regular consists. This modern train was initially called the ***New Ghan*** on all marketing material, but eventually the ***New*** was dropped. In the late 1980s as part of a major refurbishment of the rollingstock the train was re-marketed as ***The Legendary Ghan***.

The last narrow gauge north bound ***Ghan*** left Marree on 24<sup>th</sup> November 1980, returning south on 26<sup>th</sup> November 1980.

**Ghan Preservation Society, MacDonnell Siding, Alice Springs** The Ghan Preservation Society is based at MacDonnell Siding, just outside Alice Springs. They are in possession of the line from MacDonnell Siding to Ewaninga Siding, 23km south of Alice Springs. They operate some original 1960s ***Ghan*** rollingstock and have several NSU class diesels.

**G.S.R.** See Great Southern Railway.

**Great Southern Railway (G.S.R.)** The passenger business of ***Australian National*** was sold to the Great Southern consortium on 28<sup>th</sup> August 1997. They took over operation from 1<sup>st</sup> November 1997. A large number



The narrow gauge Ghan at Alice Springs, circa 1960s



28.8.1976 - Alice Springs - general view of brake vans and wagons in yard  
(Murray Billett)



21.03.2004, Keswick - Ghan Logo board (*Phil Leonard*)

of the remaining passenger vehicles were sold as part of the passenger business. They later shortened their name to ***great Southern Rail***.

On their website in 2006 Great Southern Railway described their history as follows:

In late 1997, Great Southern Railway was the successful bidder for the Passenger Rail business of Australian National. This made Great Southern Railway the first government owned transcontinental passenger business to be privatised in Australia. Great Southern Railway originally consisted of a consortium of Australian and International financiers, operators and service providers. These partners all contributed solid financial backing. In October 1999, Serco Asia Pacific bought out the other partners, placing the company in a strong position for future growth.

In March 2015 Serco sold GSR to private equity firm Allegro Funds.

In June 2019 the 'Great Southern Rail' brand was replaced with individual journey brands of 'The Ghan', 'Indian Pacific', 'The Overland' and 'Great Southern', with the business name being changed to 'Journey Beyond Rail Expeditions'



# I

**Indian Pacific** The Indian Pacific had its inaugural run on 23<sup>rd</sup> February 1970 when the first through passenger service operated between Sydney and Perth. The standard gauge connection had actually been completed by 12<sup>th</sup> January 1970. The carriages were owned by the Commonwealth, but were considered Joint Stock for maintenance costings.



Indian Pacific car logo

Passengers for Adelaide initially had to change trains at Port Pirie until the service was re-rerouted. The first Indian Pacific into Keswick Passenger terminal was on 17<sup>th</sup> August 1986.

**Intercapital Daylight** The Intercapital Daylight service ran daily between Melbourne and Sydney on the standard gauge line.

**Intermodal** Intermodal is the term used to describe freight traffic involving transfer of containers to and from road and rail vehicles. Sometimes referred to as container traffic.

**Iron Triangle Limited, The** The Iron Triangle Limited service ran by Australian National between Adelaide, Port Pirie, Port Augusta and Whyalla on standard gauge using Budd Railcars. The service began on 2<sup>nd</sup> April 1986 as a special run, with regular working from 21<sup>st</sup> April 1986. It finished 31<sup>st</sup> December 1990.





2.04.2004, Keswick - Indian Pacific Logo Board (*Phil Leonard*)

## J

**Journey Beyond Rail Expeditions** From June 2019, 'Journey Beyond Rail Expeditions' became the operators of 'The Ghan', 'Indian Pacific', 'The Overland' and 'Great Southern'. They had previously been called 'Great Southern Railway'.

## K

**Keswick Rail Terminal** The Keswick Rail Terminal was built by Australian National in the suburb of Keswick, Adelaide, South Australia as its main passenger terminal. It was officially opened on 15<sup>th</sup> June 1984.

## L

**Loading Gauge** Maximum dimensions to which a vehicle can be built or loaded without risk of striking a lineside structure.

**L.C.L.** Less than Container Load. LCL traffic was the term used to describe any traffic, such as parcels, that was less than a full container in size.

## M

**MainTrax N.T.** MainTrax N.T. are the firm who operate the *Old Ghan* from MacDonnell Siding to Ewaingana under contract from The Ghan Preservation Society.

**Match Wagon** A vehicle equipped with different types of couplers at each end and placed between vehicles where the couplers are of different types. The most common use of this type of vehicle was with mobile crane wagons.

**Motor car** A passenger vehicle in a multiple unit train which is provided with traction power equipment.

**Motorrail** Motorrail is a rail transport service where passengers can take their automobile along with them on their journey. Passengers are carried in normal passenger cars or in sleeping cars on longer journeys, while the cars are loaded into car carriers, or flatcars.

**Mile End Railway Museum** The Mile End Railway Museum was founded in 1963 and moved to Port Adelaide in 1988 to become the Port Dock Station Railway Museum.

**Murraylander** See Australian Loco & Railway Carriage Company.

## N

**North Australia Railway (N.A.R.)** - Palmerston to Pine Creek Railway The



Darwin station with train

North Australia Railway extended from Darwin to Birdum. It was built as

a narrow gauge railway. Originally it had been built as the Palmerston division of the South Australian Railways, but was transferred to Commonwealth Government control in 1911. It extended to Emungalan on the Katherine River in May 1917 and eventually to Birdum whilst Commonwealth Railway control.



Adelaide River Troop Train October 1942

Initially, after handover to the Commonwealth Government on 1<sup>st</sup> January 1911, the line was run by the Northern Territory Administrator until 30<sup>th</sup> June 1918 when it was handed to the Commonwealth Railways. Records of the period suggest that the Commonwealth Railways had a big influence on the line prior to the official transfer of control as they provided the Administrator with assistance in the purchase of rollingstock and other items. The last train ran on this line on 30<sup>th</sup> June 1976.

**N.A.R.** See North Australia Railway.

**Narrow Gauge** A narrow Gauge railway has track with 3 foot 6 inch (1067mm) spacing between rails.

**National Rail Corporation (N.R.)** The National Rail Corporation took over the interstate freight business of Australian National. It was jointly owned by the Commonwealth, Victorian and New South Wales Governments.

**National Railway Museum Port Adelaide** The National Railway Museum Port Adelaide was founded in 1963 as the Mile End Railway Museum. They move to the Port Adelaide site in 1988 and were known as Port

Dock Station Railway Museum. On 21<sup>st</sup> October 2001 it was renamed the ***National Railway Museum Port Adelaide***

**N.R.** See National Rail Corporation.

**New South Wales Government Railways (N.S.W.G.R.)** The New South Wales Government Railways operated all the railways in the state of New South Wales. At various time they were reorganised and had minor changes made to their name. They have opertaed under names such as 'New South Wales Railways', 'Freight Corp', and the 'New South Wales Public Transport Commission'.

**New South Wales Public Transport Commission (N.S.W.P.T.C.)** See New South Wales Government Railways.

**Northern Rivers Railway.** The Northern Rivers Railway operate on the line between Murwillumbah and Casino in New South Wales. Commencing in 1999, they operated a passenger service called the ***Ritz Rail*** train between Murwillumbah and Byron Bay. Operated Under the name 'Ritz Rail'

## O



Overland logo on side of Tawarri 9.2.1999 (*Chris Drymalik*)

**Overland, The** The original service called ***The Overland*** was the nightly train that ran between Adelaide and Melbourne. It was jointly owned by the Victorian and South Australian railways, until 1976 when Australian

National took over the South Australian part of the operation. Australian National became the single operator of *The Overland* in 1994.

This service was taken over by Great Southern Railways following the sale of Australian National. In 1999 the remaining in service cars were repainted in a new colour scheme and logo graphics.

A completely new look for *the Overland* was launched in May 2007. This included a new colour scheme, refurbished car and the removal of all sleeping cars as it was now an exclusively daylight only service several times per week.

What is beleived to be the last service of 'The Overland' arrived in Adelaide on the 24 March 2020.

## P

**Pichi Richi Railway (P.R.R.)** Pichi Richi Railway Preservation Society is based at Quorn, South Australia. They operate narrow gauge trains over the three lines that radiate out from the Quorn station.

**Port Dock Station Railway Museum** The Port Dock Station Railway Museum was founded in 1963 as the Mile End Railway Museum. They move to the Port Adelaide site in 1988.

On 21<sup>st</sup> October 2001 it was renamed the *National Railway Museum Port Adelaide*

## Q

**QGR** Queensland Government Railways - See Queensland Railways.

**Q.R.** See Queensland Railways.

**Queensland Railways (Q.R.)** The Queensland Railways were operated by the State of Queensland.

## R

**Railcar** Self-powered vehicle capable of operating as a single unit and often passenger carrying.

**References Abbreviations** At various points references are sited by placing a code inside of square brakets '[]'. The various codes can be on the References and Bibliography page.

## S

**S.A.R.** See South Australian Railways.

**Semi Permanent Coupling** Coupling between vehicles provided for normally fixed formation consists. This form of coupling is usually only disconnected in a workshop.

**Shunt** To marshal vehicles in a given order to form a train consist.

**Spirit of Progress** Victorian Railways train that ran between Melbourne and Albury to connect with the New South Wales train for Sydney. It commenced operation in November 1937. After the completion of the standard gauge line from Albury to Melbourne, in 1962, it ran nightly between Melbourne and Sydney.

In the 1986, the train was combined with **Southern Aurora** to become the north bound **Sydney Express** and the southbound **Melbourne Express**. The service was withdrawn in the 1990s.

**Standard Gauge** A standard gauge railway has track with 4 foot 8½ inches (1435mm) between rails.

**SteamRanger** See Australian Railway Historical Society.

**South Australian Railways.** The railways in the state of South Australia were operated by the state government. In 1975 the 'South Australian Railways' were sold the Commonwealth of Australia, who combined them with the Commonwealth Railways to form Australian National.

**SAR&CR Joint Stock** South Australian and Commonwealth Railways Joint Stock operated on the East-West service between Port Augusta and Terowie via Quorn between 1917 and 1936. All the vehicles were owned by the South Australian Railways with only the costs being shared. Following cessation of this service, many of the cars were rebuilt.

**Southern Aurora** The Southern Aurora operated nightly between Sydney and Melbourne in both directions and commenced running on 16<sup>th</sup> April 1962 shortly after the new standard gauge connection opened between Melbourne and Sydney. It was jointly owned by the New South Wales and Victorian railways and used cars similar in design to stainless steel cars built by Comeng for the Commonwealth Railways.

In 1986 the train was combined with **Spirit of Progress** to become the north bound **Sydney Express**; and the southbound **Melbourne Express**. The service was withdrawn in November 1993 when it was replaced by an XPT railcar service.

**Southern Spirit** The Southern Spirit is a special passenger train operated by Great Southern Railway. Each journey incorporates a series of wayside stops and off train excursions to various tourist destinations.

It first run was called ***The Grand Tour*** and ran from Uluru (Ayers Rock) to Brisbane, via Alice Springs, Adelaide, Melbourne and Sydney over 14 days from 9 January 2010 to 22 January 2010. The train was hauled by NR84 and NR85 (at separate times) and included carriages FAM2389, HGM296, ER909, BRG974, BRG168, BRG175, AFC307, DF934, BRG972, BRG171, ARM990, HM957 and HGM903.

**South Spur Rail Services** South Spur Rail Services are a Western Australia based private operator who have a number of contracts for hauling ballast, rail and sleeper trains. They operated a Restaurant Train service called ***Spirit of the West***, using Australian Railway Historical Society coaches and a specially painted K class diesel locomotive, as an offshoot company called the Midland Railway Company.

**Spirit of the West** see South Spur Rail Services.

**State Rail Authority of New South Wales (SRA)** The State Rail Authority was the government authority responsible for the operation and maintenance of railways in the Australian state of New South Wales between 1980 and 2003. The State Rail Authority (SRA) was established in 1980 after the separation of the Public Transport Commission into the SRA, responsible for trains, and the Urban Transport Authority (UTA), responsible for buses and ferries.

**State Transport Authority of South Australia.** The State Transport Authority of South Australia was formed as a result of the sale of the South Australian Railways to the Commonwealth in 1975. It took over the operation of the suburban rail system in Adelaide. It changed its name to Trans-Adelaide in July 1994.

It is a Government organisation answerable to the South Australian Minister of Transport.

**Steamtown Peterborough Railway Preservation Society Inc.** ***Steamtown*** was based at Peterborough in the mid-north of South Australia. The society was formed in 1977 and ran its first public train in 1981. ***Steamtown*** had a number of working locomotives (both steam and diesel) obtained from Western Australia and several former Commonwealth Railways diesel locomotives. Most of the passenger rollingstock they operated was originally used on the Commonwealth Railways Trans-Australian Railway.

The train operated on the narrow gauge line between Peterborough and Eurelia. In October 2003 the society was disbanded and all assets passed to the local council who intended using the core part of the collection as a static museum based in the Peterborough Roundhouse precinct.

**Sydney/Melbourne Express** The Sydney/Melbourne Express was an intercapital passenger train service that operated between the

Australian cities of Melbourne and Sydney between 1986 and 1993. It was operated jointly by V/Line and the State Rail Authority of New South Wales the name depended on the direction of travel.

The Sydney/Melbourne Express was formed from the merger of the Spirit of Progress and Southern Aurora to cut operating costs of the intercapital rail service with the first train operating on September 2, 1986. The last Melbourne Express ran on the night of Saturday November 20, 1993 ex Sydney, with the last Sydney Express running ex Melbourne on Sunday 21 November, 1993.

## T

**Tea and Sugar** The *Tea and Sugar* train was a service that operated between Port Augusta, South Australia and Parkeston, Western Australia. The train provided the basic needs of the railway staff living in the remote regions through which the train operated. It commenced operation in 1915 during construction of the line and eventually end up with a number of specialised vehicles, including a butcher car, retail store car, community service car, and pay car.

The last west bound *Tea and Sugar* train departed Port Augusta on Wednesday 28<sup>th</sup> August 1996, whilst the last east bound departed Parkeston on Friday 30<sup>th</sup> August 1996. The service was withdrawn because of the decline in the number of rail workers living in the remote regions the train serviced.

**Track Gauge** The distance between the inner faces of the rail of a railway track. In Australia the main gauges are broad, narrow and standard.

**Trailer Car** A passenger vehicle in a multiple unit train which has no traction power equipment.

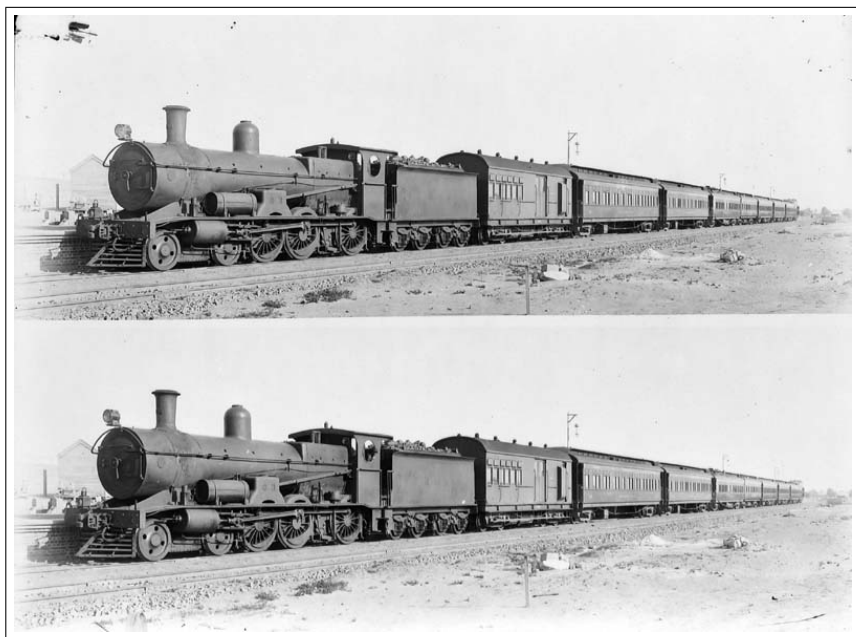
**Trans-Adelaide** See State Transport Authority of South Australia.

**Trans-Australian Passenger Train** The Trans-Australian Passenger train ran between Port Augusta and Kalgoorlie. It began in 1917 and was eventually cancelled in 1991 following poor patronage and a severe cut back in the frequency of the service.

Initially it was all sleeping class with only irregular way side situp passenger accomodation being provided. In the 1960s regular situp was provided, but this was eventually withdrawn. Situp was again introduced in 1981 when it was added to the Trans-Australian and Indian Pacific services.

In 1983 the Trans-Australian was reduced from 4 to 3 services and the economy class sleeping cars were replaced by additional first class cars. Later the same year another Trans-Australian service was removed so that The Alice train could be inaugurated. The Trans-Australian was cut to





Trans-Australian, circa 1917 (*Chris Drymalik Collection*)



Trans-Australian with GM 1 and wooden cars, circa 1951

a single weekly service on 9<sup>th</sup> February 1991, leaving Adelaide each Wednesday, but this was short lived as this service was cancelled later that year.



First Express at 408 miles, 1917

**Trans-Australian Railway (T.A.R.)** This railway extends from Port Pirie to Kalgoorlie. The first sod for the Port Augusta to Kalgoorlie section was turned on 14 September 1912 with the line being completed on 17<sup>th</sup> October 1917. An extension to Port Pirie was opened on 23 July 1937 when the South Australian Railways extended the line from Red Hill. It is standard gauge.

**Tarcoola to Alice Springs Railway (T.A.S.)** Tarcoola to Alice Springs Railway. Work commenced 12<sup>th</sup> April 1975 on a replacement for the narrow gauge track from Marree to Alice Springs. The new route, via Tarcoola, was opened in 1980. It is standard gauge.

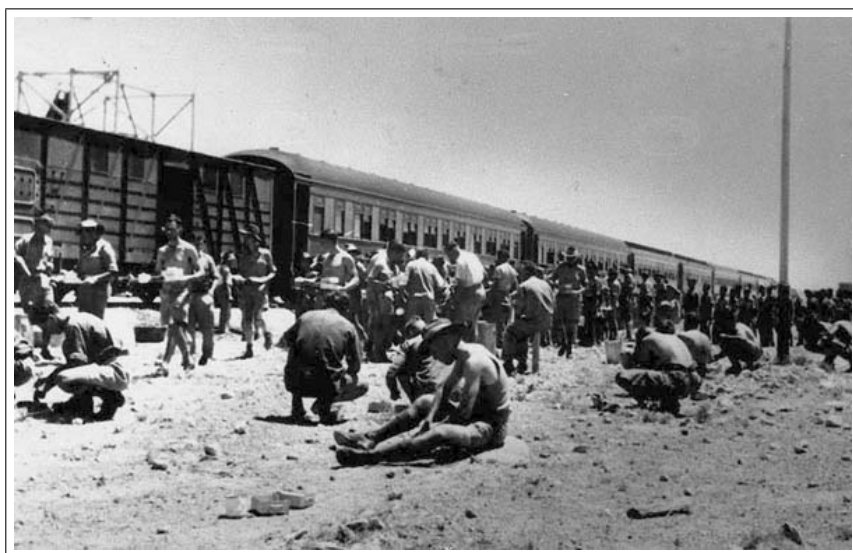
**TIMS** Australian Nationals Traffic Information Management System (TIMS), was closely linked to a system for tracking wagons known as the 'Wagon Maintenance System (WMS)'.

**Troop Train** During World War II special trains were run that carried only military troops. These were generically referred to as 'Troop Trains'.

Due to a shortage on rollingstock on the North Australia Railway and Trans-Australian Railway a number of cattle vans were converted to carry troops as part of this operation.



Ghan logo on car side



A troop train on Port Augusta Wharf

# U

**UIC classification of locomotive axle arrangements** The UIC classification of locomotive axle arrangements is a system for describing the wheel arrangement of locomotives, multiple units and trams. It is provided by the International Union of Railways. The United States use a simplified form (AAR wheel arrangement) for modern locomotives. It is a more versatile system than Whyte notation for classifying steam locomotives by wheel arrangement.

The UIC notation counts pairs of wheels (called "wheelsets" or informally "axles").

**Upper-case letters** Designate a number of consecutive driving axles, starting at A for a single axle. C thus indicates three consecutive pairs of driving wheels.

**Numbers** Designate consecutive non-driving axles, starting with 1 for a single axle.

**Lower-case 'o'** On many electric and diesel-electric locomotives, axles are individually driven by electric traction motors - this is indicated by suffixing the driving wheel letter with a lower-case 'o'.

**Prime sign ' '** Indicates that the axles are mounted on a bogie.

**Plus sign +** Indicates that the locomotive or multiple unit consists of permanently coupled and mechanically separated individual vehicles.

**Brackets** Can be used to group letters and numbers describing the same bogie. For example, (A1A) indicates a three axle bogie with the outer two axles driven. When brackets are used a prime is not needed to indicate a bogie. Mallet locomotives can be indicated by bracketing the front power unit - for example, the Union Pacific Big Boy - denoted 4-8-8-4 in Whyte notation, is designated (2' D)D2' in UIC notation.

Garratt-type locomotives are indicated by bracketing or placing plus signs between all individual units.

**Other Suffixes** The designation can also have additional suffixes, denoting other features of the locomotive:

**h** Superheated Steam

**n** Saturated Steam

**v:** Compound

**Turb** Turbine

**number** number of cylinders

**t** Tank locomotive

**G** Freight train purpose . Also used to indicate shunting locomotives

**P:** Passenger train purpose

**S** Fast train purpose

## V

**VicRail** See Victorian Railways.

**Victorian Railways (V.R.) – VicRail, V/Line** The railways in the state of Victoria were called the 'Victorian Railways'. They were owned by the state of Victoria, Australia and were eventually split into a number of operational units which traded under various names such as VicRail, 'V/LINE' and 'The Met'.

**Vinelander** The Vinelander was an overnight passenger train operated by the Victorian Railways between Melbourne and Mildura, Victoria, Australia. The Vinelander first ran on 9 August 1972 and offered sleeping, sitting and motorail facilities. It ceased operation on 12 September 1993.

**V/Line** See Victorian Railways.

**V.R.** See Victorian Railways.

## W

**W.A.G.R.** See Western Australia Government Railways.

**Wegmann** 'Waggonfabrik Wegmann' of Kassel Germany built a number of carriages during the 1950s for the Trans-Australian Service.

**Western Australia Government Railways (W.A.G.R.)** The Western Australia Government Railways were owned by the state of Western Australia. They operated services on both narrow and standard gauge.

**Westwaggon Bogies** Many Commonwealth Railways cars were fitted with 'Westwaggon' bogies. These had been purchased from the 'Wegmann' Company in 1951 at a cost of £174,062 for 64 bogies. The purpose of these bogies was to improve the riding quality of existing wooden cars and bring them up to the standard of the new all-steel rollingstock purchased from the 'Wegmann' Company the same year. Despite buying 64 bogies, a shortage developed as some were used under additional steel passenger cars purchased in the late 1950s. As speeds increased the bogies were unable to cope with the poor track condition. This led to new bogies being purchased and the Westwaggon bogies becoming surplus. Having been made to be readily gauge convertible (Standard to Narrow), and because of their good riding quality at low speeds, were possible all wooden cars used on the narrow gauge Ghan were fitted with these bogies. By the time most wooden cars were being withdrawn in 1980 many of the cars had been fitted.

**WMS** Australian Nationals Wagon Monitoring System (WMS), it was closely linked to a system for train movements known as the 'Traffic Information Management System (TIMS)'.

**Whyte notation for locomotive axle arrangements** Whyte notation is a way of classifying steam locomotives by wheel arrangement. The Whyte system counts the number of leading wheels, then the number of driving wheels, and finally the number of trailing wheels, groups of numbers being separated by dashes. Thus, a locomotive with two leading axles (and thus four wheels) in front, then three driving axles (six wheels) and followed by one trailing axle (two wheels) is classified as a 4-6-2. Articulated locomotives such as Garratts, have a '+' between the arrangements of each engine (e.g. 4-6-2+2-6-4). Simpler articulated types where there are no unpowered axles between powered axles, have extra groups of numbers in the middle. Thus a Big Boy is a 4-8-8-4; there are two leading axles, one group of four driving axles, another group of four driving axles, and then two trailing axles.

Various suffixes are sometimes used, but they are not universal. Some of the more common ones are:

**T** indicates a tank locomotive. In British practice, this is sometimes extended to indicate the type of tank locomotive: T means side tank, PT pannier tank, ST saddle tank, WT well tank. T+T means a tank locomotive that has a tender for additional coal or water capacity.

**R** In Europe suffix R means rack (0-6-0RT) or it could mean reversible (0-6-0TR).

**F** indicates a fireless locomotive (0-4-0F). Note that this locomotive has no tender.

**ca** compressed air (i.e., running on compressed air from a tank instead of steam).

**ng** narrow-gauge locomotives (i.e., less than 56.5 in / 1435 mm)

In Britain, a small diesel or petrol locomotive is classified in the same way as steam locomotives, e.g. 0-4-0, 0-6-0, followed by D for diesel, P petrol, and another letter describing the transmission: E for electric, H hydraulic, M mechanical. Thus 0-6-0DE denotes a six-wheel diesel locomotive with electric transmission.

Where the axles are coupled by chains or shafts (rather than side-rods), or are individually driven, the terms 4w, 6w or 8w are generally used. Thus 4wPE indicates a four-wheel petrol locomotive with electric transmission. For large diesel locomotives the standard UIC classification is used.



## REFERENCES AND BIBLIOGRAPHY

**Some of the sources used to verify the information contained in these pages are:**

**ah** Correspondence with Alan Hegler.

**ARHS-bul** Australian Railway Historical Society; *Bulletin*; various editions

**ausrollingstock** Yahoo group 'ausrollingstock' at [groups.yahoo.com/group/ausrollingstock/](http://groups.yahoo.com/group/ausrollingstock/).

- Australian Railway Historical Society (Victorian Division); *Newsrail*; monthly periodical; various editions.
- Australian Railway Historical Society (South Australian Division); *Recorder*; monthly periodical.
- Baggage, Jack and Barrington, Rodney; *The History of Pichi Richi Railway*; Pichi Richi Railway Preservation Society Inc; 1984.
- Banger, Chris and Medlin, Peter; *Ninety years of The E Cars - Part 2*; Newsrail; September 1996.
- Beckhaus, John; *Commonwealth Railways Passenger Cars*; Modelling the Railways of SA Convention.
- Beckhaus, John; *CR Passenger fleet*; Unpublished Draft.
- Beckhaus, John; *SAR Broad Gauge Passenger fleet*; Unpublished Draft.
- Beckhaus, John; *SAR Narrow Gauge Passenger fleet*; Unpublished Draft.
- Beckhaus, John; *SAR Railcar fleet*; Unpublished Draft.

**blc** Details extracted from Barry Lewis Collection records at National Railway Museum.

- Mack, David; ***Little Coastal Railways of the Adelaide plains***, Hyde Park Press; 1986.

**cc** Correspondence with Chris Carpenter.

**CP\_mm.yyyy** Catchpoint Magazine edition mm.yyyy (month.year).  
Catchpoint is produced by the Port Dock Station Railway Museum.

**cr\_nnnn** Commonwealth Railways Central Office File **nnnn**. - most of these are stored at the National Archives of Australia series B300.

**cr\_plan** Commonwealth Railways Rollingstock Plan.

**db** Correspondence with Dylan Badenoch.

**dc** Correspondence with Doug Colquhoun.

**dc** Correspondence with Doug Johnson.

**dp** Parsons D.B; ***3'6" Gauge Passenger Rolling Stock of South Australian Railways***; Australian Railway Historical Society Bulletin; 1958.

**sf** Correspondence with David Stosser.

- Fitzgerald, Anthony; ***Australian National's GM Class***; Australian Model Railway Magazine, April 1997.

**facebook-sare** Facebooks group - South Australian Railway Enthusiasts.

**GA** General Appendix.

**gh** Correspondence with Geoff Hann. .

**jb** Correspondence with John Beckhaus.

**jbo** Correspondence with John Bollans.

**jg** Correspondence with John Green.

**jh\_nnl** Jim Harvey *The Never-Never Line, The story of the North Australia Railway*.

**gp** Correspondence with Gerald Petrie.

**GSR** Great Southern Railway Literature and Press Releases.

**hw** Correspondence with Hugh Williams.

**kb** Correspondence with Kym Bird, also included reference to historic articles

- The 300-400 Class Railcars and 829-860 Class Trailer Cars of the South Australian Railways,Australian Railway Historical Society Bulletin; p219-238, October 1985, Vol.26 No.576; p243-261, November 1985, Vol.26 No.577; p279-283 December 1985, Vol.26 No.578.



- The Fageol Railcars of the S.A.R,Australian Railway Historical Society Bulletin; p219-238, October 1985, Vol.37 No.588.
- Brill Railcars of the South Australian Railways,Australian Railway Historical Society Bulletin; p213-236, October 1991, Vol.32 No.528; p237-260, November 1991, Vol.32 No.529; p272-282 December 1991, Vol.32 No.530; p1-8, January 1992, Vol.33 No.531.

**md** Michael Dix correspondence.

**mr** Correspondence with Matthew Reid of Edmonton, Alberta, Canada.

**MN** Monthly Notice - The Commonwealth Railways issues published notices on a monthly basis to staff.

**MERM** Mile End Railway Museum

**NAA** National Archives of Australia - normally will be followed by a series reference number.

**newsrail** Newsrail Magazine edition mm.yyyy (month.year).

**NRM** National Railway Museum correspondence.

**pf** Correspondence with Paul Quinn.

**ph** Correspondence with Peter Hinksman.

**pk** Correspondence with Peter Knife, or referenced in his book 'Peninsula Pioneer'

**pl** Correspondence with Phil Leonard.

**pm** Correspondence with Peter Medlin.

**pmi** Correspondence with Peter Michalak.

**pq** Correspondence with Paul Quinn.

**pr** Correspondence with Philippa Rogers.

**PTT** Public Time Table.

**railsa** RailSA Australia Forums - formerly at 'www.railsa.org'

**rpf** Railpage Australia Forums at www.railpage.com.au.

**RRC** South Australian, Commonwealth and Australian National Railways ***Rollingstock Record Cards***. These were large cardboard cards, one per vehicle, maintained by the workshops that showed all major alterations and repairs done to that vehicle. They are generally a lot more accurate than the computerised 'TIMS' records. See the 'TIMS' reference for more details.

**SAR** South Australian Railways record or docket reference.

- South Australian Railways; ***Annual report to Parliament***; South Australian Parliamentary Paper No.47.
- South Australian Railways; ***Rollingstock Record Cards***; Port Dock Museum Collection.
- South Australian Railways Institute; ***South Australian Railways Institute Magazine***; periodical; various editions.

**sf** Correspondence with Steve Ford.

**sh** Correspondence with Stuart Hicks.

**sm** Correspondence with Steven Moritz.

**SN** Special Notice.

**st** Correspondence with Simon Thompson.

- Smith, Roderick ***Named Carriages***; Rail news Victoria; March 1998

**th** Correspondence with Trevor Horman.

**TIMS/WMS** Information extracted from ***Australian Nationals Computerised Traffic Information Management System (TIMS)*** The records that have been extracted from TIMS, and the Computerised Wagon Monitoring System (WMS), are not always very accurate. Frequently significant alterations did not make it into the system. An example is the upgrade of 'Ghan' cars. These cars only show the date of the work order for modifications being issued in 1988 with very little information about when the actual work took place. For some cars this was not until 18 months later. Port Augusta still maintained paper based manual rollingstock record cards of changes long after they supposedly moved over to 'TIMS', so generally 'TIMS' shows the date the work was approved/proposed rather than when it was actually carried out.

**Vline-news** State Transport Authority of Victoria; ***V/LINE News***, journal.

**wh** Correspondence with Wayne Hoskin.

**WN** Weekly Notice.

**WTT** Working Time Table.

### **Commonwealth Railways Files - Central Office**

Listed below are the title of the Commonwealth Railways Central Office files consulted to create this information.

These files are stored at Australian Archives Adelaide Office - series B300.

File No	File Active Date	File Title
47pt1-5	1912-1926	'Q' class locomotives.
101pt1-2	1911-28	Diesel locomotives.
107Pt1-4	1912-15	'G' class locomotives.
307	1911-27	Cranes general.
486	1912-1920	Shovel, 'Marion' steam, Port Augusta.
576		Rollingstock - locomotives general
631pt1-2	1913-16	8 No. 'G' class locomotives - Bladwin Co.
1033pt1-2	1913-50	Baldwin locomotives.
1513	1914-23	Temporary passenger cars
1729	1916	Rollingstock for through express (street railway carriages)
2248pt1	1914-29	Particulars of rollingstock (general) TAR
2425	1923-82	Vans - travelling stores - two for retail business
3581		Design of proposed Express Passenger Engines.
4089pt2	1920-51	Dining cars for through express
5373pt1-4	1918-62	Special service car
5389pt1-2	1922-41	Lounge cars TAR
5409		Travelling Butchers vans - TAR
5472	1918-54	3 'YB' vans, brakevans
5500pt2-4	1917-54	Dining car, sleeping car etc TAR Proposed with a view to improvement
5638		Question of providing extra Dining car (can't find 17.1.89)
5740	1916-18	History of B44 no N.G. N9.
5909	1919-42	"HR" vans
6205pt1	1913-30	Classification of rollingstock
6251/4	1935-36	Theft of gold from train between Quorn and Alice Springs May 1935
6251/5	6.1935	Attempted robbery of Mail TAR
6312pt10	1956-60	Rollingstock for through express
6312pt2	1916-23	Rollingstock for through express
6312pt3	1924-28	Rollingstock for through express
6312pt4	1928-29	Rollingstock for through express
6312pt8	1946-51	Rollingstock for through express
6312pt9	1951-56	Rollingstock for through express
6423pt1	1917-33	Special car No.2
6423pt2	1941-65	Special car No.2
6431pt1	1913-24	Photographs of rollingstock
6431pt2	1927-65	Photographs of rollingstock

6440pt1	1914-25	Rollingstock capital value of stock, Pt Augusta-Oodnadatta railway
6440pt3	1960-67	Rollingstock CAR
6447p1-6	1913-45	NM class locomotives CAR.
6459	1923-44	Passenger cars CAR
6462	1913-52	Sleeping cars 3'6" gauge CAR
6717	1926-42	Special car - CAR
6762		Locos Oodnadatta - Alice Springs
6826	1926-28	Three 2nd class 50ft passenger cars NBPA
6879		Dining car
6880	1926-59	Hospital car - CAR
6896pt2		Particulars of rollingstock TAR
6897		Rollingstock General - Northern Territory.
6897		Rollingstock statements - NAR
6900/17	1920	Inspections - Commissioners inspection of line & trial trip with special service car
6900/58	8.1929	Commissioners visit of inspection CAR
6938pt2	1929-79	Dining cars - CAR
7633	1932-59	Air conditioning of carriages
7782p1-4	1934-	New Psgr loco Pt (C class)
8191	1939-70	Passenger cars NAR
8391		Particular of present state of locos and rollingstock April 1943 for CLTB
8488	1944-61	Historical Articles relative to Commonwealth Railways.
8713pt1	1946-57	Locomotive experiments with Gas Turbine
8807pt1	11.1948	Testimonials to Mr G.A.Gahan
8941	1949-65	Pullman cars - TAR
9168pt1-2	1953	Inaugural run of new train TAR

Table B.1: Commonwealth Railways Files - Central Office

## INDEX

- A.L.A.R.C., 485
- A.N., 485
- A.N.R.C., 485
- A.R.H.S. (SteamRanger), 486
- A.R.T.C., 486
- A.S.R., 486
- AAR wheel arrangement, 485
- Air Brake, 485
- Air Suspension, 485
- Alice, The, 485
- Articulated Vehicle, 486
- Asia Pacific Transport Consortium, 486
- AustralAsia Railway Corporation, 486
- Australia Southern Railroad (A.S.R.), 487
- Australian Locomotive & Railway Carriage Company, 486
- Australian National (A.N.), 486
- Australian National Railway Commission (A.N.R.C.), 486
- Australian Rail Track Corporation (A.R.T.C.), 487
- Axle, 487
- Axle Load, 487
- Axlebox, 487
- Ballast, 487
- Bibliography, 509
- Bogie, 487
- Broad Gauge, 487
- C.A.R., 488
- C.L.T.B., 488
- C.R., 490
- Caboose, 488
- Central Australia Railway (C.A.R.), 488
- Classification
- AAH, 32
- AAL, 33
- AAR, 33
- ABE, 34
- ABL, 34, 35
- ABS, 35
- ACC, 36
- ACHE, 38
- ACS, 38, 39
- ACZ, 39, 40
- AD, 41
- AEC, 41
- AF, 43
- AFA, 43
- AFB, 44, 46, 47
- AFC, 49, 51, 54, 56, 58, 60, 63, 65, 67
- AG, 70, 72, 74, 75, 77, 80
- AJ, 82–84
- AK, 85
- ALBE, 86
- ALLA, 86
- ANGA, 86
- AOB, 87
- ARD, 89, 90
- ARE, 91, 93, 95
- ARE, 96
- ARH, 97
- ARJ, 98, 101, 103, 105, 107, 109, 112, 115, 118, 121, 124, 127, 130
- ARL, 133, 135, 138, 140, 143, 146, 148, 150, 153, 155, 158, 160, 163, 166, 169, 172, 176, 179, 182, 186, 189, 192, 195
- ARM, 198, 201, 204, 207, 210, 214
- AZ, 217
- BA, 217, 219–221, 223
- BAM, 224–226

BB, 226  
BBA, 227  
BBL, 227  
BC, 228  
BCS, 229  
BD, 229, 230  
BDS, 230  
BE, 231–233  
BF, 234, 235  
BG, 235, 237–239  
BH, 241–243  
BHM, 243  
BHZ, 243–245  
BJ, 246–252  
BK, 253  
BKL, 254  
BM, 255  
BR, 256–259  
BRA, 260  
BRB, 261, 262  
BRD, 263  
BRE, 264–268, 270  
BRF, 271  
BRFC, 272, 273  
BRFD, 274  
BRG, 276, 277, 280, 282, 284,  
286, 288, 291  
BRJ, 293, 295, 296, 298, 299,  
302, 303, 305, 307, 310,  
312, 315, 317, 320, 323,  
326, 329, 332  
BRS, 334, 335  
BSR, 335  
BV, 336  
BW, 336  
BZ, 337  
BZS, 337–339  
C, 339  
CARE, 339  
CB, 340  
CDF, 340, 343, 345, 347, 350,  
352, 354  
CLUB, 357–359  
COLI, 361  
COON, 361  
CW, 362

DAM, 362  
DC, 363  
DD, 363, 364  
DE, 365  
DE, 366, 369, 371, 374, 376,  
378, 380, 383, 385, 388,  
389  
DORA, 392  
ECA, 392–394  
EFS, 395  
EI, 395  
FAM, 396–398  
FENN, 398  
FINN, 398  
FN, 399  
FNR, 399  
FRN, 399  
FSN, 400–402  
FSP, 402  
GOUL, 403  
HFS, 403, 404  
HNP, 404  
INDI, 405  
INMA, 405  
JRA, 406–409  
JRB, 409, 410  
JTA, 412–415  
JTB, 416–419  
JUKI, 420  
KULD, 420  
LAN, 421–423  
LODD, 423  
MALK, 424  
MBE, 424  
MCE, 424, 425  
MFA, 426, 427  
MFE, 427  
MFH, 428, 429  
MFS, 430–432  
MHA, 432  
MOKA, 433  
MURR, 433  
MURU, 433  
NABP, 433, 434  
NAF, 434  
NAFA, 435

NAM, 436–438  
NANK, 438  
NARA, 438  
NARB, 439  
NARC, 439, 440  
NARG, 440  
NDC, 441  
NDS, 442, 443  
NFS, 443–445  
NHN, 446  
NOMU, 447  
NSAK, 447  
NSS, 447  
OVEN, 448  
PEKI, 448  
PFE, 449  
PURP, 449  
RBJ, 449–451  
RBS, 453  
RDH, 453  
RS, 453, 454  
SBH, 454  
SBN, 455  
SBS, 455–457  
SCN, 457, 458  
SDS, 458–463  
SDZ, 463  
SFN, 464  
SFS, 464–467  
SJ, 467  
SLEE, 467  
SS, 468  
SSA, 469  
SSAF, 470  
SSD, 471, 472  
SX, 472–476  
SXV, 477, 478  
SZ, 479  
TAMB, 479  
TANT, 480  
TAP, 480  
TARK, 480  
VRS, 480, 481  
WAND, 481  
WERO, 482  
WERR, 482

XAM, 482  
XFS, 483  
YANN, 483  
COMENG, 488  
Commonwealth of Australia Land  
    Transport Board, 489  
Commonwealth Railways (C.R.),  
    489  
CR Joint Stock, 500  
  
Document  
    sources, 509  
Driving Trailer, 490  
Dynamic Braking, 490  
  
Files  
    CR Central Office, 512  
FreightLink, 490  
  
G.S.R., 491  
Ghan Preservation Society,  
    MacDonnell Siding, Alice  
    Springs, 491  
Ghan, The, 490  
Great Southern Railway (G.S.R.),  
    491  
  
Indian Pacific, 494  
Intercapital Daylight, 494  
Iron Triangle Limited, The, 494  
  
Journey Beyond Rail Expeditions,  
    495  
  
Keswick Rail Terminal, 495  
  
L.C.L., 495  
Loading Gauge, 495  
  
MainTrax N.T., 496  
Match Wagon, 496  
Mile End Railway Museum, 496  
Motor car, 496  
Motorrail, 496  
Murraylander, 496  
  
N.A.R., 497

N.R., 498  
 Narrow Gauge, 497  
 National Rail Corporation (N.R.), 497  
 National Railway Museum Port Adelaide, 497  
 New South Wales Government Railways (N.S.W.G.R.), 498  
 New South Wales Public Transport Commission (N.S.W.P.T.C.), 498  
 North Australia Railway (N.A.R.), 496  
 Northern Rivers Railway., 498  
  
 Overland, The, 498  
  
 Pichi Richi Railway (P.R.R.), 499  
 Port Dock Station Railway Museum, 499  
  
 Q.R., 499  
 QGR, 499  
 Queensland Railways (Q.R.), 499  
  
 Railcar, 499  
 References, 509  
 References Abbreviations, 499  
  
 S.A.R., 500  
 Semi Permanent Coupling, 500  
 Shunt, 500  
 Sources, 509  
 South Australian Railways., 500  
 South Spur Rail Services, 501  
 Southern Aurora, 500  
 Southern Spirit, 500  
 Spirit of Progress, 500  
 Spirit of the West, 501  
 Standard Gauge, 500  
 State Rail Authority of New South Wales (SRA), 501  
 State Transport Authority of South Australia., 501  
 SteamRanger, 500  
  
 Steamtown Peterborough Railway Preservation Society Inc., 501  
 Sydney/Melbourne Express, 501  
  
 Tarcoola to Alice Springs Railway (T.A.S.), 504  
 Tea and Sugar, 502  
 TIMS, 504  
 Track Gauge, 502  
 Trailer Car, 502  
 Trans-Adelaide, 502  
 Trans-Australian Passenger Train, 502  
 Trans-Australian Railway (T.A.R.), 504  
 Troop Train, 504  
  
 UIC classification of locomotive axle arrangements, 506  
  
 V.R., 507  
 V/Line, 507  
 VicRail, 507  
 Victorian Railways (V.R.) – VicRail, V/Line, 507  
 Vineland, 507  
  
 W.A.G.R., 507  
 Wegmann, 507  
 Western Australia Government Railways (W.A.G.R.), 507  
 Westwaggon Bogies, 507  
 Whyte notation for locomotive axle arrangements, 508  
 WMS, 508







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