

TABLE OF CONTENTS

1 Introduction

- 1.1 Service & Parts Manual Introduction
- 1.2 Air Locker Functional Description

2 Air Locker Differential Parts Lists

Section	Part No.	Description	Splines	Ratio
2.1	RD01	Toyota 8",45mm BRNG (replaced by RD132)	30	All
2.2	RD02	Toyota 8.9",45mm BRNG (replaced by RD142)	30	All
2.3	RD03	Land Rover,10 SPL,Banjo (replaced by RD127)	10	3.54
2.4	RD04	Nissan H233,31 SPL (replaced by RD134)	31	All
2.5	RD05	Mitsubishi 8",RR,28 SPL	28	All
2.6	RD06	Dana 44,30 SPL,3.92 & UP (replaced by RD116)	30	3.92 & UP
2.7	RD07	Dana 44,30 SPL,3.73 & DN (replaced by RD117)	30	3.73 & DN
2.8	RD08	Toyota 8.9",C-clip,45mm BRNG (replaced by RD153)	30	All
2.9	RD09	Nissan H233B,31 SPL (thrust block only - replaced by RD136)	31	All
2.10	RD10	GM 10 Bolt,8.5",28 SPL (replaced by RD83)	28	2.73 & UP
2.12	RD12	GM 12 Bolt,8.9",30 SPL,3.73 & UP	30	3.73 & UP
2.16	RD16	Ford 8.8",28 SPL (replaced by RD82)	28	All
2.17	RD17	Nissan H233B,33 SPL (disc brake only - replaced by RD135)	33	All
2.18	RD18	Dana 44,19 SPL,3.92 & UP (deleted from range)	19	3.92 & UP
2.19	RD19	Dana 44,19 SPL,3.73 & DN (deleted from range)	19	3.73 & DN
2.20	RD20	Land Rover,Salisbury,3.54:1	24	3.54
2.21	RD21	Dana 60,30 SPL,4.56 & UP	30	4.56 & UP
2.22	RD22	Dana 60,30 SPL,4.10 & DN	30	4.10 & DN
2.23	RD23	Toyota 8",50mm BRNG (replaced by RD132)	30	All
2.24	RD24	Nissan H233B,33 SPL (replaced by RD135)	33	All
2.25	RD25	Mitsubishi 9",RR,28 SPL (disc brake only - replaced by RD46)	28	All
2.26	RD26	Land Rover HD,24 SPL (deleted from range)	24	3.54
2.27	RD27	Nissan C200,29 SPL (replaced by RD107)	29	All
2.28	RD28	GM 10 Bolt,8.5",30 SPL (replaced by RD84)	30	2.73 & UP
2.30	RD30	Dana 30,27 SPL,3.73 & UP (replaced by RD100)	27	3.73 & UP
2.31	RD31	Dana 30,27 SPL,3.54 & DN (replaced by RD101)	27	3.54 & DN
2.32	RD32	Land Rover,Salisbury,4.70:1	24	4.7
2.33	RD33	Toyota 8.9",50mm BRNG (replaced by RD142)	30	All
2.35	RD35	Dana 60HD,35 SPL,4.56 & UP	35	4.56 & UP
2.36	RD36	Dana 60HD,35 SPL,4.10 & DN	35	4.10 & DN
2.37	RD37	Ford 10.25" & 10.5" (Sterling / corporate)	35	All
2.38	RD38	Dana 35,non C-clip,27 SPL,3.31 & DN (replaced by RD103)	27	3.31 & DN
2.39	RD39	Dana 35,non C-clip,27 SPL,3.54 & UP (replaced by RD102)	27	3.54 & UP
2.40	RD40	GM 14 Bolt,9.5",C-clip	33	All
2.41	RD41	Mitsubishi Jeep,RR (deleted from range)	19	All
2.42	RD42	Dana 60HD,C-clip,35 SPL,4.56 & UP	35	4.56 & UP
2.43	RD43	Dana 60HD,C-clip,35 SPL,4.10 & DN	35	4.10 & DN
2.44	RD44	Isuzu,RR,26 SPL	26	All
2.45	RD45	Mahindra,19 SPL (deleted from range)	19	All
2.46	RD46	Mitsubishi 9",RR,28 SPL	28	All
2.47	RD47	AMC Model 20,2.73:1	29	2.73
2.50	RD50	Dana 50,30 SPL	30	All
2.51	RD51	GM / AAM 9.25",33 SPL	33	All
2.53	RD53	Dana 70HD,35 SPL,4.56 & UP	35	4.56 & UP
2.54	RD54	Dana 70HD,35 SPL,4.10 & DN	35	4.10 & DN
2.55	RD55B	Ford 9",31 SPL (replaced by RD119)	31	All
2.56	RD56	Land Rover,24 SPL,Banjo (replaced by RD128)	24	All
2.57	RD57	Land Rover,24 SPL,Banjo,P38A (replaced by RD138)	24	All
2.60	RD60	AMC Model 20,3.08 & UP	29	3.08 & UP
2.64	RD64	Toyota 9.5",32 SPL	32	All
2.65	RD65	Dana 70U,35 SPL,4.56 & UP	35	4.56 & UP
2.66	RD66	Dana 70U,35 SPL,4.10 & DN	35	4.10 & DN

NOTE: Contact ARB directly for model numbers not listed here.



TABLE OF CONTENTS

2 Air Locker Differential Parts Lists

Section	Part No.	Description	Splines	Ratio
2.68	RD68	Dana 35,C-clip,27 SPL,3.31 & DN (replaced by RD103)	27	3.31 & DN
2.69	RD69	Dana 35,C-clip,27 SPL,3.54 & UP (replaced by RD102)	27	3.54 & UP
2.70	RD70	Nissan H260,37 SPL	37	All
2.71	RD71	Nissan H260,37 SPL (disc brake only - replaced by RD70)	37	All
2.72	RD72	Suzuki Sierra,RR,26 SPL (replaced by RD88)	26	All
2.73	RD73	Suzuki Sierra,FR,22 SPL (replaced by RD75)	22	All
2.74	RD74	Suzuki Vitara,RR,26 SPL,10 bolt RG	26	All
2.75	RD75	Suzuki,FR,22 SPL,10 bolt RG	22	All
2.77	RD77	Suzuki Jimny (JA),FR,22 SPL (replaced by RD87)	22	All
2.78	RD78A	Nissan H233B,31 SPL (replaced by RD136)	31	All
2.79	RD79	Suzuki Vitara,RR,26 SPL,12 bolt RG	26	All
2.80	RD80	Dana 80,35 SPL	35	Varies by Mfg.
2.81	RD81	Ford 8.8",31 SPL	31	All
2.82	RD82	Ford 8.8",28 SPL	28	All
2.83	RD83	GM 10 Bolt,8.5",28 SPL	28	2.73 & UP
2.84	RD84	GM 10 Bolt,8.5",30 SPL	30	2.73 & UP
2.85	RD85	Isuzu RR,23 SPL,non-LS	23	All
2.87	RD87	Suzuki Jimny,FR,22 SPL,8 bolt RG	22	All
2.88	RD88	Suzuki,26 SPL,10 bolt RG	26	All
2.89	RD89	Toyota Tacoma,RR (replaced by RD129)	30	All
2.90	RD90	Toyota 7.5" IFS	27	All
2.91	RD91	Dana 80,37 SPL	37	Varies by Mfg.
2.92	RD92	Toyota 8" IFS,50mm BRNG (replaced by RD131)	30	All
2.93	RD93	Chrysler 8.25",29 SPL	29	All
2.94	RD94	Isuzu IFS,17 SPL	17	All
2.95	RD95	Dana 60,32 SPL,4.56 & UP	32	4.56 & UP
2.96	RD96	Dana 60,32 SPL,4.10 & DN	32	4.10 & DN
2.97	RD97	Dana 70,32 SPL,4.56 & UP	32	4.56 & UP
2.98	RD98	Dana 70,32 SPL,4.10 & DN	32	4.10 & DN
2.99	RD99	Ford 9",35 SPL,2" BRNG	35	All
2.100	RD100	Dana 30,27 SPL,3.73 & UP	27	3.73 & UP
2.101	RD101	Dana 30,27 SPL,3.54 & DN	27	3.54 & DN
2.102	RD102	Dana 35,27 SPL,3.54 & UP	27	3.54 & UP
2.103	RD103	Dana 35,27 SPL,3.31 & DN	27	3.31 & DN
2.104	RD104	Dana 30,30 SPL,3.73 & UP	30	3.73 & UP
2.105	RD105	Dana 35,30 SPL,3.54 & UP	30	3.54 & UP
2.106	RD106	Nissan C200,31 SPL	31	All
2.107	RD107	Nissan C200/R200A,29 SPL	29	All
2.109	RD109	Dana 44,35 SPL,3.92 & UP	35	3.92 & UP
2.110	RD110	Mitsubishi IFS,28 SPL	28	All
2.111	RD111	Toyota 8" IFS,53mm BRNG,3.91 & UP	30	3.91 & UP
2.112	RD112	Chrysler 8.25",27 SPL	27	All
2.113	RD113	Dana 44,33 SPL,3.92 & UP	33	3.92 & UP
2.114	RD114	GM 14 Bolt,10.5",FF	30	4.10 & DN
2.115	RD115	Dana 70HD,37 SPL,4.56 & UP	37	4.56 & UP
2.116	RD116	Dana 44,30 SPL,3.92 & UP	30	3.92 & UP
2.117	RD117	Dana 44,30 SPL,3.73 & DN	30	3.73 & DN
2.118	RD118	Suzuki Jimny,FR,22 SPL,10 bolt RG	22	All
2.119	RD119	Ford 9",31 SPL	31	All
2.121	RD121	Toyota 8" IFS,53mm BRNG,3.73 & DN	30	3.73 & DN
2.123	RD123	Mazda 8",RR,shim adjusted	30	All
2.124	RD124	Toyota 8.9",C-clip,50mm BRNG (replaced by RD153)	30	All
2.125	RD125	Dana 35,non C-clip,30 SPL,3.54 & UP	30	3.54 & UP
2.126	RD126	Santana PS-10,RR	34	All
2.127	RD127	Land Rover,10 SPL,Banjo	10	3.54
2.128	RD128	Land Rover,24 SPL,Banjo	24	3.54

NOTE: Contact ARB directly for model numbers not listed here.



TABLE OF CONTENTS

2 Air Locker Differential Parts Lists

Section	Part No.	Description	Splines	Ratio
2.129	RD129	Toyota Tacoma,RR	30	All
2.131	RD131	Toyota 8" IFS,50mm BRNG	30	All
2.132	RD132	Toyota 8",50mm BRNG	30	All
2.133	RD133	Toyota 8" RR,shim adjusted	30	All
2.134	RD134	Nissan H233,31 SPL	31	All
2.135	RD135	Nissan H233B,33 SPL	33	All
2.136	RD136	Nissan H233B,31 SPL	31	All
2.137	RD137	Nissan R230,33 SPL,IRS,3.54 & UP	33	3.54 & UP
2.138	RD138	Land Rover,24 SPL,Banjo,P38A	24	All
2.139	RD139	AAM 11.5",30 SPL	30	All
2.141	RD141	Toyota 8" IFS,34 SPL,58mm BRNG	34	All
2.142	RD142	Toyota 8.9",50mm BRNG	30	All
2.143	RD143	Dana 44,32 SPL,3.73 & DN	32	3.73 & DN
2.144	RD144	Nissan H260,34 SPL	34	All
2.145	RD145	Rockwell 2.5T,16 SPL	16	All
2.147	RD147	Dana 44,35 SPL,3.73 & DN	35	3.73 & DN
2.148	RD148	AAM 760,28 SPL	28	All
2.149	RD149	Nissan,M226,32 SPL,10 bolt RG	32	All
2.152	RD152	Toyota 9.5",32 SPL	32	All
2.154	RD154	Mitsubishi 9.5",31 SPL,live axle	31	All
2.155	RD155	Mitsubishi 9.5",33 SPL,IRS	33	All
2.156	RD156	Hyundai 9.5",34 SPL,live axle	34	All
2.159	RD159	Nissan M226,32 SPL,12 bolt RG	32	All

NOTE: Contact ARB directly for model numbers not listed here.

3 Compressor Parts Lists

- 3.1 On-Board Air Compressor Kit, Medium (RDCKA & RDCKA24)
- 3.2 Portable Air Compressor (RDCP & RDCPA)
- 3.3 On-Board Air Compressor Kit, Compact (CKSA12)
- 3.4 On-Board Air Compressor Kit, High Output (CKMA12 & CKMA24)
- 3.5 Portable Air Compressor Kit, High Output (CKMP12)

4 Accessory Parts Lists

- 4.1 Bulkhead Fitting Kits
- 4.2 Heavy Duty Air Line Kit (HDAL)
- 4.3 Compressor Piston Service Kit
- 4.4 Purge Valve Kit

5 Tech Notes

- 5.1 Screw Secured Seal Housing Set-up
- 5.2 Spring Clip Secured Seal Housing Set-up
- 5.3 Axle Identification
- 5.4 Axle Modification
- 5.5 Inspection for Bent Axles
- 5.6 Ring and Pinion Gear Modifications
- 5.7 Solenoid Valve
- 5.8 Compressor Wiring Diagrams
- 5.9 Compressor Fault Diagnosis Procedure
- 5.10 Serial Number Interpretation
- 5.11 Insuring Adequate Oil Drainage
- 5.12 Installation in Ford Front Differentials
- 5.13 Land Rover Salisbury Housing Modification
- 5.14 Land Rover Axle Update

TABLE OF CONTENTS

6 Appendix

- 6.1 Service Guide
- 6.2 Shim Kit Specifications
- 6.3 Adjuster Nut Specifications
- 6.4 Differential Ratio Calculator
- 6.5 Differential Measurement Reference
- 6.6 Packaging Weights and Dimensions
- 6.7 Air Compressor Range Sizes & Specifications
- 6.8 Tapered Roller Bearing Specifications
- 6.9 Radial Seal Specifications (O-rings & X-rings)