

AIR OPERATED LOCKING DIFFERENTIAL

RD68

Dana 35, C-clip, 27 SPL, 3.31 & DN**

**THIS MODEL WAS SUPERSEDED BY RD103, CROSSED OUT PARTS NOT AVAILABLE

ITEM#	PARTS LIST					
02 1 CLUTCH GEAR 05959-1 4 03 1 DIFFERENTIAL CASE 0412008 4 04 1 RETAINING PIN SET (PK OF 4) 120401SP 3 1 CROSS SHAFT RETAINING PIN KIT RPK001SP 3 05 1 LONG CROSS SHAFT 061101 4 06 1 SHORT CROSS SHAFT 061201 4 07 1 PISTON 040601SP 08 1 U-RING 160203-8 09 1 CYLINDER CAP 03939-4 4 10 1 SEAL HOUSING O-RINGS (PK OF 2) 160210-2 1 11 1 CYL CAP RETAINING BOLT (PK OF 8) 200207SP 12 1 LOCKING TAB (6mm) (PK OF 8) 150402SP 13 1 TAPERED ROLLER BEARING 160105 2 14 1 SEAL HOUSING KIT 080603SP 15 1 SHIM KIT SHK003 16 1 SPRING RETAINER RING 190101 17 1 RETURN SPRINGS (PK OF 12) 150107SP 18 1 COUNTERSUNK SCREW (PK OF 2) 200213SP 19 1 SPLINED SIDE GEAR 131004R 20 1 SPIDER BLOCK 070602 21 3 PINION GEAR 140502R 22 1 PINION TRUST WASHER (PK OF 4) 151107SP 23 1 SIDE GEAR 130004R 24 1 S GEAR THRUST WASHER (PK OF 4) 151107SP 24 1 SIDE GEAR 130004R 25 1 SIDE GEAR 130004R 26 1 SIDE GEAR 130004R 27 1 SIDE GEAR 130004R 28 1 SIDE GEAR 130004R 29 1 SIDE GEAR 130004R 20 1 SIDE GEAR 130004R 21 S GEAR THRUST WASHER (PK OF 2) 151005SP 23 1 SIDE GEAR 130004R 24 1 S GEAR THRUST WASHER (PK OF 2) 151005SP 25 1 BULKHEAD FITTING KIT 170102 26 1 SIDE GEAR 130004R 27 1 SOLENOID VALVE (12V) 180103 28 1 SOLENOID VALVE (12V) 180103 29 1 CALLE ITE (PK OF 25) 180305 20 1 OPERATING & SERVICE MANUAL 210200	ITEM #	QTY	DESCRIPTION	PART#	NOTES	
03 1 DIFFERENTIAL CASE 012008 4 04 1 RETAINING PIN SET (PK OF 4) 120401SP 3 • 1 CROSS SHAFT RETAINING PIN KIT RPK001SP 3 05 1 LONG CROSS SHAFT 064101 4 06 1 SHORT CROSS SHAFT 064201 4 07 1 PISTON 040601SP 08 1 U-RING 16930SP 09 1 CYLINDER CAP 030904 4 10 1 SEAL HOUSING O-RINGS (PK OF 2) 160210-2 1 11 1 1 CYL CAP RETAINING BOLT (PK OF 8) 200207SP 12 1 LOCKING TAB (6mm) (PK OF 8) 150402SP 13 1 TAPERED ROLLER BEARING 160105 2 14 1 SEAL HOUSING KIT 080603SP 15 1 SHIM KIT SHK003 16 1 SPRING RETAINER RING 190101 17 1 RETURN SPRINGS (PK OF 12) 150107SP 18 1 COUNTERSUMK SCREW (PK OF 2) 20021SSP 19 1 SPLINED SIDE GEAR 131004R 20 1 SPIDER BLOCK 07602 21 3 PINION GEAR 14050SP 22 1 PINION THRUST WASHER (PK OF 4) 151107SP 23 1 SIDE GEAR 130904R 24 1 S GEAR THRUST WASHER (PK OF 2) 15005SP • 1 BULKHEAD FITTING (KIT 170102 • 1 PUSH-IN FITTING (KIT 170102 • 1 PUSH-IN FITTING (KIT 170102 • 1 SOLENOID VALVE (12V) 180103 • 1 SOLENOID VALVE (12V) 180103 • 1 SWITCHIRR LOCKER 180204 • 1 CABLE TIE (PK OF 25) 180305 • 1 OPERATING & SERVICE MANUAL 210200	01	1	FLANGE CAP	021902	4	
04 1 RETAINING PIN SET (PK OF 4) 120401SP 3 ↑ 1 CROSS SHAFT RETAINING PIN KIT RPK001SP 3 05 1 LONG CROSS SHAFT 064141 4 06 1 SHORT CROSS SHAFT 064201 4 07 1 PISTON 040601SP 08 1 U-RING 16030SP 09 1 CYLINDER CAP 030904 4 10 1 SEAL HOUSING O-RINGS (PK OF 2) 160210-2 1 11 1 CYL CAP RETAINING BOLT (PK OF 8) 200207SP 12 1 LOCKING TAB (6mm) (PK OF 8) 150402SP 13 1 TAPERED ROLLER BEARING 160105 2 14 1 SEAL HOUSING KIT 080603SP 15 1 SHIM KIT SHK003 16 1 SPRING RETAINER RING 190101 17 1 RETURN SPRINGS (PK OF 12) 150107SP 18 1 COUNTERSUNK SCREW (PK OF 2) 200213SP 19 1 SPLINED SIDE GEAR 131004R 20 1 SPIDER BLOCK 070602 21 3 PINION GEAR 140502R 22 1 PINION THRUST WASHER (PK OF 4) 151107SP 23 1 SIDE GEAR 130904R 24 1 S GEAR THRUST WASHER (PK OF 4) 151107SP 2 1 SIDE GEAR 130904R 24 1 S GEAR THRUST WASHER (PK OF 2) 15100SSP 1 DUSH-IN FITTING (5mm to 1/8"BSPP) 170201SP 1 AIR LINE (5mm DIA X 6m LONG) 170301SP 1 SOLENOID VALVE (12V) 180103 1 CABLE TIE (PK OF 25) 180305 1 OPERATING & SERVICE MANUAL 210200	02	1	CLUTCH GEAR	050501	4	
* 1 CROSS SHAFT RETAINING PIN KIT RPK001SP 3 05 1 LONG CROSS SHAFT 064104 4 06 1 SHORT CROSS SHAFT 064201 4 07 1 PISTON 044601SP 08 1 U-RING 460303SP 09 1 CYLINDER CAP 030904 4 10 1 SEAL HOUSING O-RINGS (PK OF 2) 160210-2 1 11 1 CYL CAP RETAINING BOLT (PK OF 8) 200207SP 12 1 LOCKING TAB (6mm) (PK OF 8) 150402SP 13 1 TAPERD ROLLER BEARING 160105 2 14 1 SEAL HOUSING KIT 080603SP 15 1 SHIM KIT SHK003 16 1 SPRING RETAINER RING 190101 17 1 RETURN SPRINGS (PK OF 2) 150107SP 18 1 COUNTERSUNK SCREW (PK OF 2) 200213SP 19 1 SPLINED SIDE GEAR 131004R 20 1 SPIDER BLOCK 070602 21 3 PINION GEAR 140502R 22 1 PINION THRUST WASHER (PK OF 4) 151107SP 23 1 SIDE GEAR 130904R 24 1 S GEAR THRUST WASHER (PK OF 2) 151005SP 1 SULKHEAD FITTING KIT 170102 1 PUSH-IN FITTING KIT 170102 1 AIR LINE (5mm to 1/8"BSPP) 170201SP 1 AIR LINE (5mm to 1/8"BSPP) 170201SP 1 SWITCH RR COKER 1 SWITCH RR LOKER 1 SWITCH RR LOKER 1 SWITCH RR LOKER 1 SOLENOID VALVE (12V) 180103 1 SWITCH RR LOKER 1 SWITCH RR LOCKER 1 LOSON	03	1	DIFFERENTIAL CASE	012008	4	
1	04	1	RETAINING PIN SET (PK OF 4)	120401SP	3	
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07	05	1	LONG CROSS SHAFT	061101	4	
08 1 U-RING 160303SP 09 1 CYLINDER CAP 030904 4 10 1 SEAL HOUSING O-RINGS (PK OF 2) 160210-2 1 11 1 CYL CAP RETAINING BOLT (PK OF 8) 200207SP 12 1 LOCKING TAB (6mm) (PK OF 8) 150402SP 13 1 TAPERED ROLLER BEARING 160105 2 14 1 SEAL HOUSING KIT 080603SP 15 1 SHIM KIT SHK003 16 1 SPRING RETAINER RING 190101 17 1 RETURN SPRINGS (PK OF 12) 150107SP 18 1 COUNTERSUNK SCREW (PK OF 2) 200213SP 19 1 SPLINED SIDE GEAR 131004R 20 1 SPIDER BLOCK 070602 21 3 PINION GEAR 140502R 22 1 PINION THRUST WASHER (PK OF 4) 151107SP 23 1 SIDE GEAR 130904R 24 1 S GE	06	1	SHORT CROSS SHAFT	061201	4	
1	07	1	PISTON	040601SP		
10 1 SEAL HOUSING O-RINGS (PK OF 2) 160210-2 1 11 1 1 CYL CAP RETAINING BOLT (PK OF 8) 200207SP 12 1 LOCKING TAB (6mm) (PK OF 8) 150402SP 13 1 TAPERED ROLLER BEARING 160105 2 14 1 SEAL HOUSING KIT 080603SP 15 1 SHIM KIT SHK003 16 1 SPRING RETAINER RING 190101 17 1 RETURN SPRINGS (PK OF 12) 150107SP 18 1 COUNTERSUNK SCREW (PK OF 2) 200213SP 19 1 SPLINED SIDE GEAR 131004R 20 1 SPIDER BLOCK 070602 21 3 PINION GEAR 140502R 22 1 PINION THRUST WASHER (PK OF 4) 151107SP 23 1 SIDE GEAR 130904R 24 1 S GEAR THRUST WASHER (PK OF 2) 15005SP * 1 BULKHEAD FITTING KIT 170102 * 1 PUSH-IN FITTING KIT 170102 * 1 SOLENOID VALVE (12V) 180103 * 1 SOLENOID VALVE (12V) 180103 * 1 SOLENOID VALVE (12V) 180103 * 1 SWITCHIRR LOCKER 180205 * 1 OPERATING & SERVICE MANUAL 210200	08	1	U-RING	160303SP		
11	09	1	CYLINDER CAP	030904	4	
12 1 LOCKING TAB (6mm) (PK OF 8) 150402SP 13 1 TAPERED ROLLER BEARING 160105 2 14 1 SEAL HOUSING KIT 080603SP 15 1 SHIM KIT SHK003 16 1 SPRING RETAINER RING 190101 17 1 RETURN SPRINGS (PK OF 12) 150107SP 18 1 COUNTERSUNK SCREW (PK OF 2) 200213SP 19 1 SPLINED SIDE GEAR 131004R 20 1 SPIDER BLOCK 070602 21 3 PINION GEAR 140502R 22 1 PINION THRUST WASHER (PK OF 4) 151107SP 23 1 SIDE GEAR 130904R 24 1 S GEAR THRUST WASHER (PK OF 2) 151005SP * 1 BULKHEAD FITTING KIT 170102 * 1 PUSH-IN FITTING (5mm to 1/8"BSPP) 170201SP * 1 AIR LINE (5mm DIA X 6m LONG) 170301SP * 1 SOLENOID VALVE (12V) 180103 * 1 SWITCH RR LOCKER <t< th=""><th>10</th><th>1</th><th>SEAL HOUSING O-RINGS (PK OF 2)</th><th>160210-2</th><th>1</th></t<>	10	1	SEAL HOUSING O-RINGS (PK OF 2)	160210-2	1	
13 1 TAPERED ROLLER BEARING 160105 2 14 1 SEAL HOUSING KIT 080603SP 15 1 SHIM KIT SHK003 16 1 SPRING RETAINER RING 190101 17 1 RETURN SPRINGS (PK OF 12) 150107SP 18 1 COUNTERSUNK SCREW (PK OF 2) 200213SP 19 1 SPLINED SIDE GEAR 131004R 20 1 SPIDER BLOCK 970602 21 3 PINION GEAR 140502R 22 1 PINION THRUST WASHER (PK OF 4) 151107SP 23 1 SIDE GEAR 130904R 24 1 S GEAR THRUST WASHER (PK OF 2) 151005SP * 1 BULKHEAD FITTING KIT 170102 * 1 PUSH-IN FITTING (5mm to 1/8"BSPP) 170201SP * 1 AIR LINE (5mm DIA X 6m LONG) 170301SP * 1 SOLENOID VALVE (12V) 180103 * 1 SWITCH RR LOCKER 180205 * 1 OPERATING & SERVICE MANUAL 210200	11	1	CYL CAP RETAINING BOLT (PK OF 8)	200207SP		
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15 1 SHIM KIT SHK003 16 1 SPRING RETAINER RING 190101 17 1 RETURN SPRINGS (PK OF 12) 150107SP 18 1 COUNTERSUNK SCREW (PK OF 2) 200213SP 19 1 SPLINED SIDE GEAR 131004R 20 1 SPIDER BLOCK 070602 21 3 PINION GEAR 140502R 22 1 PINION THRUST WASHER (PK OF 4) 151107SP 23 1 SIDE GEAR 130904R 24 1 S GEAR THRUST WASHER (PK OF 2) 151005SP * 1 BULKHEAD FITTING KIT 170102 * 1 PUSH-IN FITTING (5mm to 1/8"BSPP) 170201SP * 1 AIR LINE (5mm DIA X 6m LONG) 170301SP * 1 SOLENOID VALVE (12V) 180103 * 1 SWITCH RR LOCKER 180224 * 1 CABLE TIE (PK OF 25) 180305 * 1 OPERATING & SERVICE MANUAL 210200	13	1	TAPERED ROLLER BEARING	160105	2	
16 1 SPRING RETAINER RING 190101 17 1 RETURN SPRINGS (PK OF 12) 150107SP 18 1 COUNTERSUNK SCREW (PK OF 2) 200213SP 19 1 SPLINED SIDE GEAR 131004R 20 1 SPIDER BLOCK 070602 21 3 PINION GEAR 140502R 22 1 PINION THRUST WASHER (PK OF 4) 151107SP 23 1 SIDE GEAR 130904R 24 1 S GEAR THRUST WASHER (PK OF 2) 151005SP * 1 BULKHEAD FITTING KIT 170102 * 1 PUSH-IN FITTING (5mm to 1/8"BSPP) 170201SP * 1 AIR LINE (5mm DIA X 6m LONG) 170301SP * 1 SOLENOID VALVE (12V) 180103 * 1 SWITCH RR LOCKER 180224 * 1 CABLE TIE (PK OF 25) 180305 * 1 OPERATING & SERVICE MANUAL 210200	14	1	SEAL HOUSING KIT	080603SP		
17 1 RETURN SPRINGS (PK OF 12) 150107SP 18 1 COUNTERSUNK SCREW (PK OF 2) 200213SP 19 1 SPLINED SIDE GEAR 131004R 20 1 SPIDER BLOCK 070602 21 3 PINION GEAR 140502R 22 1 PINION THRUST WASHER (PK OF 4) 151107SP 23 1 SIDE GEAR 130904R 24 1 S GEAR THRUST WASHER (PK OF 2) 151005SP * 1 BULKHEAD FITTING KIT 170102 * 1 PUSH-IN FITTING (5mm to 1/8"BSPP) 170201SP * 1 AIR LINE (5mm DIA X 6m LONG) 170301SP * 1 SOLENOID VALVE (12V) 180103 * 1 SWITCH RR LOCKER 180224 * 1 CABLE TIE (PK OF 25) 180305 * 1 OPERATING & SERVICE MANUAL 210200	15	1	SHIM KIT	SHK003		
18 1 COUNTERSUNK SCREW (PK OF 2) 200213SP 19 1 SPLINED SIDE GEAR 131004R 20 1 SPIDER BLOCK 070602 21 3 PINION GEAR 140502R 22 1 PINION THRUST WASHER (PK OF 4) 151107SP 23 1 SIDE GEAR 130904R 24 1 S GEAR THRUST WASHER (PK OF 2) 151005SP * 1 BULKHEAD FITTING KIT 170102 * 1 PUSH-IN FITTING (5mm to 1/8"BSPP) 170201SP * 1 AIR LINE (5mm DIA X 6m LONG) 170301SP * 1 SOLENOID VALVE (12V) 180103 * 1 SWITCH RR LOCKER 180224 * 1 CABLE TIE (PK OF 25) 180305 * 1 OPERATING & SERVICE MANUAL 210200	16	1	SPRING RETAINER RING	190101		
19 1 SPLINED SIDE GEAR 131004R 20 1 SPIDER BLOCK 070602 21 3 PINION GEAR 140502R 22 1 PINION THRUST WASHER (PK OF 4) 151107SP 23 1 SIDE GEAR 130904R 24 1 S GEAR THRUST WASHER (PK OF 2) 151005SP * 1 BULKHEAD FITTING KIT 170102 * 1 PUSH-IN FITTING (5mm to 1/8"BSPP) 170201SP * 1 AIR LINE (5mm DIA X 6m LONG) 170301SP * 1 SOLENOID VALVE (12V) 180103 * 1 SWITCH RR LOCKER 180224 * 1 CABLE TIE (PK OF 25) 180305 * 1 OPERATING & SERVICE MANUAL 210200	17	1	RETURN SPRINGS (PK OF 12)	150107SP		
20 1 SPIDER BLOCK 070602 21 3 PINION GEAR 140502R 22 1 PINION THRUST WASHER (PK OF 4) 151107SP 23 1 SIDE GEAR 130904R 24 1 S GEAR THRUST WASHER (PK OF 2) 151005SP * 1 BULKHEAD FITTING KIT 170102 * 1 PUSH-IN FITTING (5mm to 1/8"BSPP) 170201SP * 1 AIR LINE (5mm DIA X 6m LONG) 170301SP * 1 SOLENOID VALVE (12V) 180103 * 1 SWITCH RR LOCKER 180224 * 1 CABLE TIE (PK OF 25) 180305 * 1 OPERATING & SERVICE MANUAL 210200	18	1	COUNTERSUNK SCREW (PK OF 2)	200213SP		
21 3 PINION GEAR 140502R 22 1 PINION THRUST WASHER (PK OF 4) 151107SP 23 1 SIDE GEAR 130904R 24 1 S GEAR THRUST WASHER (PK OF 2) 151005SP * 1 BULKHEAD FITTING KIT 170102 * 1 PUSH-IN FITTING (5mm to 1/8"BSPP) 170201SP * 1 AIR LINE (5mm DIA X 6m LONG) 170301SP * 1 SOLENOID VALVE (12V) 180103 * 1 SWITCH RR LOCKER 180224 * 1 CABLE TIE (PK OF 25) 180305 * 1 OPERATING & SERVICE MANUAL 210200	19	1	SPLINED SIDE GEAR	131004R		
22 1 PINION THRUST WASHER (PK OF 4) 151107SP 23 1 SIDE GEAR 130904R 24 1 S GEAR THRUST WASHER (PK OF 2) 151005SP * 1 BULKHEAD FITTING KIT 170102 * 1 PUSH-IN FITTING (5mm to 1/8"BSPP) 170201SP * 1 AIR LINE (5mm DIA X 6m LONG) 170301SP * 1 SOLENOID VALVE (12V) 180103 * 1 SWITCH RR LOCKER 180224 * 1 CABLE TIE (PK OF 25) 180305 * 1 OPERATING & SERVICE MANUAL 210200	20	1	SPIDER BLOCK	070602		
23 1 SIDE GEAR 130904R 24 1 S GEAR THRUST WASHER (PK OF 2) 151005SP * 1 BULKHEAD FITTING KIT 170102 * 1 PUSH-IN FITTING (5mm to 1/8"BSPP) 170201SP * 1 AIR LINE (5mm DIA X 6m LONG) 170301SP * 1 SOLENOID VALVE (12V) 180103 * 1 SWITCH RR LOCKER 180224 * 1 CABLE TIE (PK OF 25) 180305 * 1 OPERATING & SERVICE MANUAL 210200	21	3	PINION GEAR	140502R		
24 1 S GEAR THRUST WASHER (PK OF 2) 151005SP * 1 BULKHEAD FITTING KIT 170102 * 1 PUSH-IN FITTING (5mm to 1/8"BSPP) 170201SP * 1 AIR LINE (5mm DIA X 6m LONG) 170301SP * 1 SOLENOID VALVE (12V) 180103 * 1 SWITCH RR LOCKER 180224 * 1 CABLE TIE (PK OF 25) 180305 * 1 OPERATING & SERVICE MANUAL 210200	22	1	PINION THRUST WASHER (PK OF 4)	151107SP		
* 1 BULKHEAD FITTING KIT 170102 * 1 PUSH-IN FITTING (5mm to 1/8"BSPP) 170201SP * 1 AIR LINE (5mm DIA X 6m LONG) 170301SP * 1 SOLENOID VALVE (12V) 180103 * 1 SWITCH RR LOCKER 180224 * 1 CABLE TIE (PK OF 25) 180305 * 1 OPERATING & SERVICE MANUAL 210200	23	1	SIDE GEAR	130904R		
* 1 PUSH-IN FITTING (5mm to 1/8"BSPP) 170201SP * 1 AIR LINE (5mm DIA X 6m LONG) 170301SP * 1 SOLENOID VALVE (12V) 180103 * 1 SWITCH RR LOCKER 180224 * 1 CABLE TIE (PK OF 25) 180305 * 1 OPERATING & SERVICE MANUAL 210200	24	1	S GEAR THRUST WASHER (PK OF 2)	151005SP		
* 1 AIR LINE (5mm DIA X 6m LONG) 170301SP * 1 SOLENOID VALVE (12V) 180103 * 1 SWITCH RR LOCKER 180224 * 1 CABLE TIE (PK OF 25) 180305 * 1 OPERATING & SERVICE MANUAL 210200	*	1	BULKHEAD FITTING KIT	170102		
* 1 SOLENOID VALVE (12V) 180103 * 1 SWITCH RR LOCKER 180224 * 1 CABLE TIE (PK OF 25) 180305 * 1 OPERATING & SERVICE MANUAL 210200	*	1	PUSH-IN FITTING (5mm to 1/8"BSPP)	170201SP		
* 1 SWITCH RR LOCKER 180224 * 1 CABLE TIE (PK OF 25) 180305 * 1 OPERATING & SERVICE MANUAL 210200	*	1	AIR LINE (5mm DIA X 6m LONG)	170301SP		
* 1 CABLE TIE (PK OF 25) 180305 * 1 OPERATING & SERVICE MANUAL 210200	*	1	SOLENOID VALVE (12V)	180103		
* 1 OPERATING & SERVICE MANUAL 210200	*	1	SWITCH RR LOCKER	180224		
	*	1	CABLE TIE (PK OF 25)	180305		
* 4 INSTALLATION CHIDE CARCO	*	1	OPERATING & SERVICE MANUAL	210200		
I INSTALLATION GUIDE 210268	*	1	INSTALLATION GUIDE	210268		

^{*} Not illustrated in exploded view

NOTES

- 1 For replacement O-rings use only BS028 Viton 75.
- For replacement bearing use Timken part # LM501349 / LM501310.
 Newer OEM Dana 35 ring and pinion sets use 7/16" bolts. The flange holes of the Air Locker must be reamed from Ø3/8" to Ø7/16" to suit.
- 3 Short retaining pin for C-clip removal (ARB # 120402) comes in kit # RPK001.
- Some OEM Dana 35 drive pinion gears extend too far into the centre and converge with the differential carrier. Refer to ring and pinion modification note (Section 5.6) for correction.



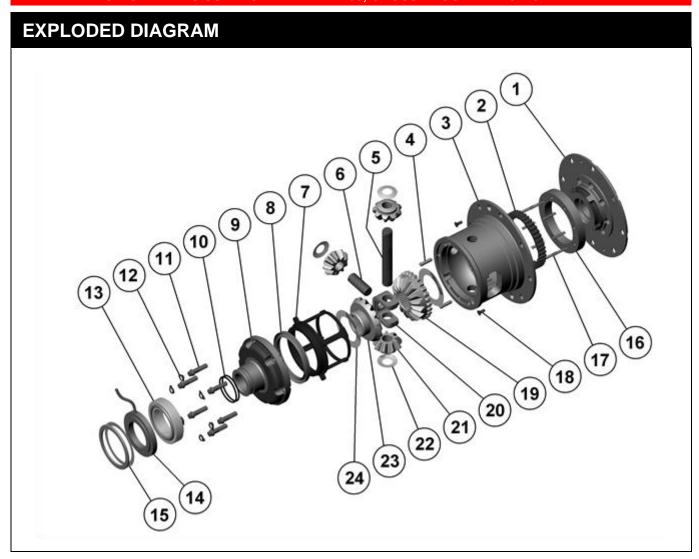


AIR OPERATED LOCKING DIFFERENTIAL

RD68

Dana 35,C-clip,27 SPL,3.31 & DN**

**THIS MODEL WAS SUPERSEDED BY RD103, CROSSED OUT PARTS NOT AVAILABLE



SPECIFICATIONS

Axle Spline 27 tooth, Ø29.5mm [1.16"]

Ratio Supported 3.31:1 & down
Ring Gear ID 120.7mm [4.75"]
Ring Gear OD 193mm [7.6"]

Ring Gear Bolts 8 bolts on Ø146mm [5.75"]

Ring Gear Torque 75Nm [55 ft-lb]

Backlash 0.15-0.25mm [0.006-0.010"]

Bearing Cap Torque 75Nm [55 ft-lb]

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