

RD33

Toyota 8.9", 50mm BRNG**

****THIS MODEL WAS SUPERSEDED BY RD142, CROSSED OUT PARTS NOT AVAILABLE**

PARTS LIST

ITEM #	QTY	DESCRIPTION	PART #	NOTES
01	1	FLANGE CAP	021703	
02	1	CLUTCH GEAR	050202	
03	1	DIFFERENTIAL CASE	010204	
04	1	RETURN SPRINGS (PK OF 4)	150101SP	
05	1	RETAINING PIN SET (PK OF 4)	120303SP	
06	1	LONG CROSS SHAFT	060205	
07	2	SHORT CROSS SHAFT	060402	
08	1	PISTON	040202SP	
09	1	BONDED SEAL	160705SP	
10	1	CYLINDER CAP ASSEMBLY	030222	
11	1	CYL CAP RETAINING BOLT (PK OF 8)	200205SP	
12	1	LOCKING TAB (8mm) (PK OF 8)	150401SP	
13	1	TAPERED ROLLER BEARING	NOT SUPPLIED	
14	1	SEAL HOUSING RETAINING CLIP	150601SP	
15	1	SPLINED SIDE GEAR	SEE NOTE	2
16	1	PINION THRUST WASHER (PK OF 4)	151102SP	
17	4	PINION GEAR	SEE NOTE	2
18	1	SPIDER BLOCK	070201SP	
19	1	SIDE GEAR	SEE NOTE	2
20	1	S GEAR THRUST WASHER (PK OF 2)	151002SP	
21	1	ADJUSTER NUT	100101SP	
22	1	SEAL HOUSING KIT	081901SP	
23	1	SEAL HOUSING O-RINGS (PK OF 2)	160207SP	1
*	1	BULKHEAD FITTING KIT (O-RING TYPE)	170111	
*	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	180209SP	
*	1	SWITCH COVER (FRONT)	180210SP	
*	1	SWITCH COVER (REAR)	180211SP	
*	1	CABLE TIE (PK OF 25)	180305	
*	1	OPERATING & SERVICE MANUAL	210200	
*	1	INSTALLATION GUIDE	210233	

* *Not illustrated in exploded view*

NOTES

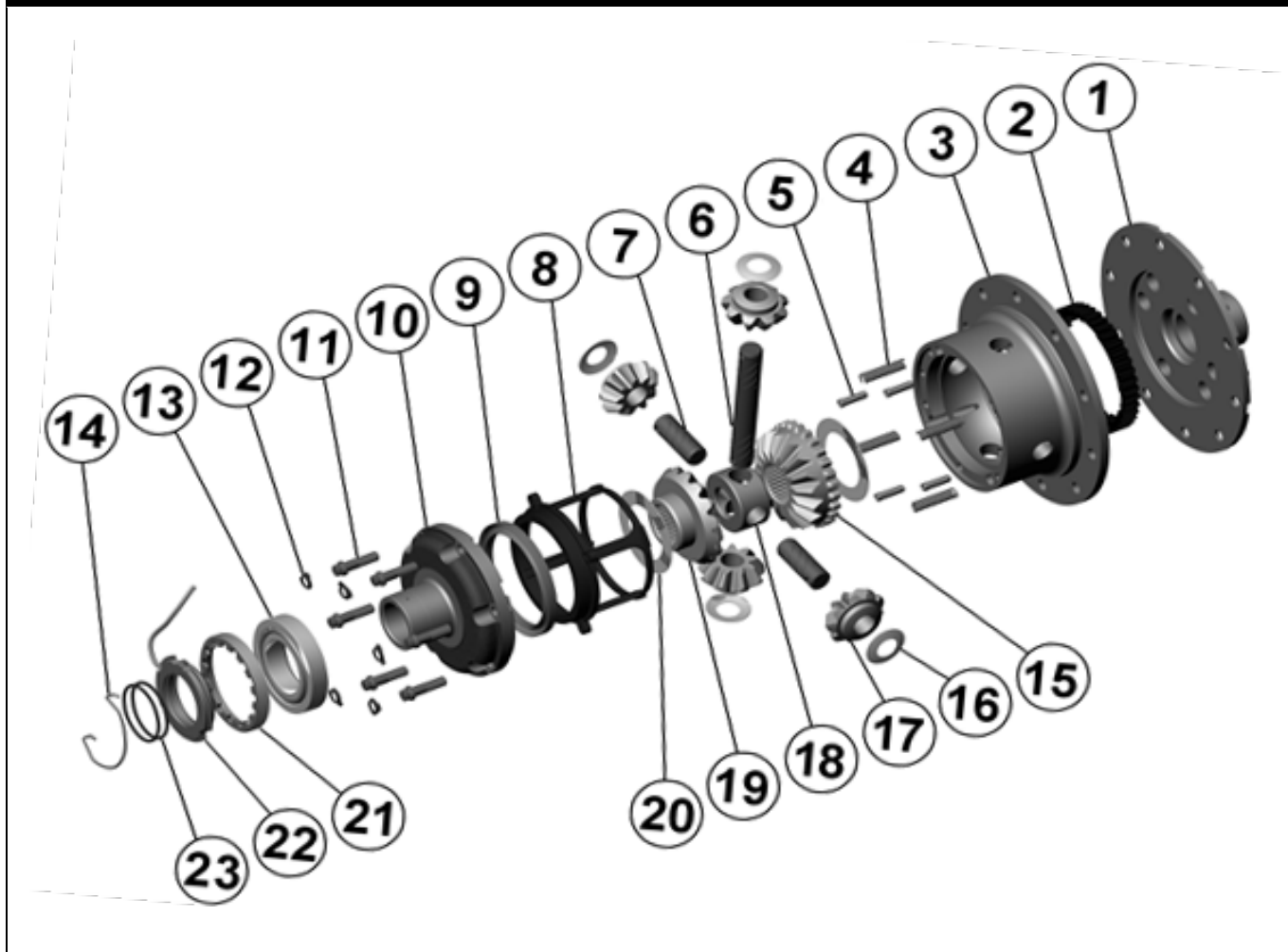
- 1 For replacement O-rings use only BS136 Viton 75.
- 2 Available only as complete 6 gear set # 728A014
- For 8.9" with 45mm carrier bearing ID, 50mm bearings must be acquired. ARB part #160116 and Timken part #32010X-32010X.
- For 8.9" C-clip model refer to RD124 ([Sec. 2.124](#)).
- Refer to seal housing set-up tech note ([Sec. 5.2](#)).
- For information on RD33 models with 4 cylinder cap bolts, contact ARB.
- Older RD33 models with O-ring grooves in the cylinder cap use; cylinder cap #030209, seal housing #080102 and O-ring BS031 #160209.

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EXPLODED DIAGRAM



SPECIFICATIONS

Axle Spline	30 tooth, Ø33mm [1.31"]
Ratio Supported	All
Ring Gear ID	138.1mm [5.44"]
Ring Gear OD	225mm [8.9"]
Ring Gear Bolts	12 bolts on Ø156mm [6.14"]
Ring Gear Torque	120Nm [89 ft-lb]
Backlash	0.15-0.20mm [0.006-0.08"]
Bearing Cap Torque	110Nm [81 ft-lb]