

**RD137**

Nissan Pathfinder R51,33 SPL,RR

### PARTS LIST

ITEM #	QTY	DESCRIPTION	PART #	NOTES
01	1	SEAL HOUSING O-RINGS (PK OF 2)	160207SP	1
02	1	SEAL HOUSING KIT	081808SP	
03	1	SHIM KIT	SHK001	
*	1	MASTER SHIM	150330	
04	1	BONDED SEAL	160703SP	
05	1	CLUTCH GEAR & WAVESPRING KIT	050904SP	4
06	1	SPIDER BLOCK	070201SP	
07	1	LONG CROSS SHAFT	060204SP	
08	1	SIDE GEAR	SEE NOTE	2
09	1	COUNTERSUNK SCREW (PK OF 2)	200213SP	
10	1	RETAINING PIN SET (PK OF 4)	120601SP	
11	-	TAPERED ROLLER BEARING	NOT SUPPLIED	
12	1	FLANGE CAP KIT	027315SP	
13	1	WAVESPRING	150704SP	
14	1	SPLINED SIDE GEAR	SEE NOTE	2
15	2	SHORT CROSS SHAFT	060403SP	
16	4	PINION GEAR	SEE NOTE	2
17	4	PINION THRUST WASHER	SEE NOTE	3
18	2	SIDE GEAR THRUST WASHER	SEE NOTE	3
19	1	DIFFERENTIAL CASE	013015SP	
*	1	BULKHEAD FITTING KIT (BANJO TYPE)	170114	5
*	1	AIR LINE (6mm DIA X 6m LONG)	170314	5
*	1	SOLENOID VALVE (12V)	180103	
*	1	SWITCH	180209SP	
*	1	SWITCH COVER (REAR)	180211SP	
*	1	CABLE TIE (PK OF 25)	180305	
*	1	OPERATING & SERVICE MANUAL	210200	
*	1	INSTALLATION GUIDE	2102137	

\* *Not illustrated in exploded view*

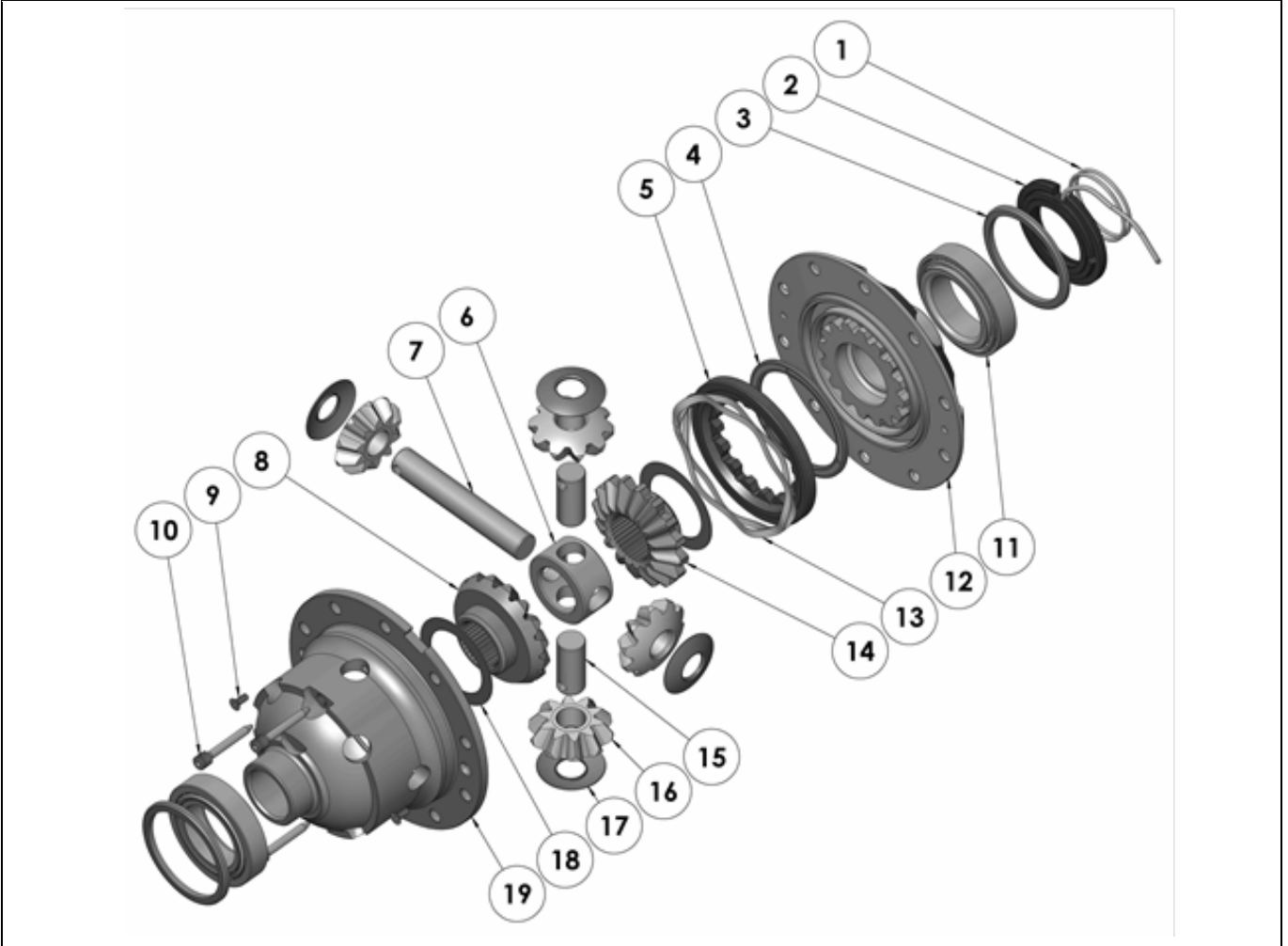
### NOTES

- 1 For replacement O-rings use only BS136 Viton 75.
- 2 Available only as complete 6 gear set # 728H161
- 3 Available only as complete thrust washer kit #730H01
- 4 Always bench test both engagement and disengagement of the clutch gear before reinstalling *Air Locker* into the vehicle.
- 5 All diffs produced before serial #17070001 came with 5mm air connection system. For information contact ARB.
- Refer to pinion modification tech note ([Sec. 5.6](#)).

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### EXPLODED DIAGRAM



### SPECIFICATIONS

Axle Spline	33 tooth, Ø33.3mm [1.31"]
Ratio Supported	Not 3.36:1 (unconfirmed)
Ring Gear ID	146.0mm [5.75"]
Ring Gear Bolt Size	13mm
Ring Gear Bolts	12 bolts on Ø176mm [6.93"]
Ring Gear Torque	203Nm [150 ft-lb]
Backlash	0.15-0.20mm [0.006-0.008"]
Bearing Cap Torque	99Nm [73 ft-lb]

ARB Corporation Ltd • 42-44 Garden St Kilsyth VIC 3137 Australia  
ARB 4X4 Accessories USA • 720 SW 34<sup>th</sup> St Renton WA 98057 USA  
Australia & International Customer Service • +61 3 9761 6622  
North America Customer Service • Toll Free 866 293 9078  
www.arb.com.au (AUS & Int) www.arbusa.com (N. America)

