

AIR OPERATED LOCKING DIFFERENTIAL

RD90

TOYOTA 7.5" IFS

| PARTS L | _IST | | | |
|---------|------|-----------------------------------|--------------|-------|
| ITEM # | QTY | DESCRIPTION | PART# | NOTES |
| 1 | 1 | BONDED SEAL | 160701SP | |
| 2 | 1 | CLUTCH GEAR & WAVESPRING KIT | 050902SP | |
| 3 | 1 | WAVESPRING | 150702SP | |
| 4 | 1 | LONG CROSS SHAFT | 061302SP | |
| 5 | 1 | SPIDER BLOCK | 070503SP | |
| 6 | 1 | DIFFERENTIAL CASE | 013101SP | |
| 7 | 1 | RETAINING PIN SET (PK OF 4) | 120601SP | |
| 8 | 1 | TAPERED ROLLER BEARING | NOT SUPPLIED | |
| 9 | 1 | SHIM KIT | SHK008 | |
| * | 1 | MASTER SHIM | 150320 | |
| 10 | 1 | TAPERED ROLLER BEARING | 160117 | 2 |
| 11 | 1 | SEAL HOUSING KIT | 081701SP | |
| 12 | 1 | SEAL HOUSING O-RINGS (PK OF 2) | 160251SP | 1 |
| 13 | 1 | FLANGE CAP KIT | 028501SP | |
| 14 | 1 | SPLINED SIDE GEAR | SEE NOTE | 3 |
| 15 | 4 | PINION THRUST WASHER | SEE NOTE | 4 |
| 16 | 4 | PINION GEAR | SEE NOTE | 3 |
| 17 | 2 | SHORT CROSS SHAFT | 061402SP | |
| 18 | 1 | SIDE GEAR | SEE NOTE | 3 |
| 19 | 2 | SIDE GEAR THRUST WASHER | SEE NOTE | 4 |
| 20 | 1 | COUNTERSUNK SCREW (PK OF 2) | 200213SP | |
| 21 | 2 | ANTI-FRICTION BUSHING (PTFE) | 160801SP | |
| * | 1 | AIR LINE (6mm DIA X 6m LONG) | 170314 | 5 |
| * | 1 | BULKHEAD FITTING KIT (BANJO TYPE) | 170114 | 5 |
| * | 1 | SOLENOID VALVE (12V) | 180103 | |
| * | 1 | CABLE TIE (PK OF 25) | 180305 | |
| * | 1 | SWITCH | 180209SP | |
| * | 1 | SWITCH COVER (FRONT) | 180210SP | |
| * | 1 | OPERATING & SERVICE MANUAL | 210200 | |
| * | 1 | INSTALLATION GUIDE | 210290 | |

NOTES

- 1 For replacement O-rings use only BS149 Viton 75.
- 2 For replacement bearing use Timken part # LM503349 / LM503310.
- 3 Available only as complete 6 gear set # 728J021
- 4 Available only as complete thrust washer kit #730J01
- 5 All diffs produced before serial #17070001 came with 5mm air connection system. For information contact ARB.
- Spare axle retaining clips may be required (not supplied) to refit CV shafts.



^{*} Not illustrated in exploded view





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SPECIFICATIONS

Axle Spline 27 tooth, Ø28.0mm [1.10"]

Ratio Supported Al

Ring Gear ID 118.0mm [4.65"] Ring Gear OD 191mm [7.5"]

Ring Gear Bolts 10 bolts on Ø140mm [5.51"]

Ring Gear Torque 96Nm [71 ft-lb]

Backlash 0.13-0.18mm [0.005-0.007"]

Bearing Cap Torque 85Nm [63 ft-lb]

