

# ARB AIR LOCKER *Air Operated Locking Differentials*

## RD12 GM 12 Bolt, 8.9", 30 SPL, 3.73 & UP

### Specs:

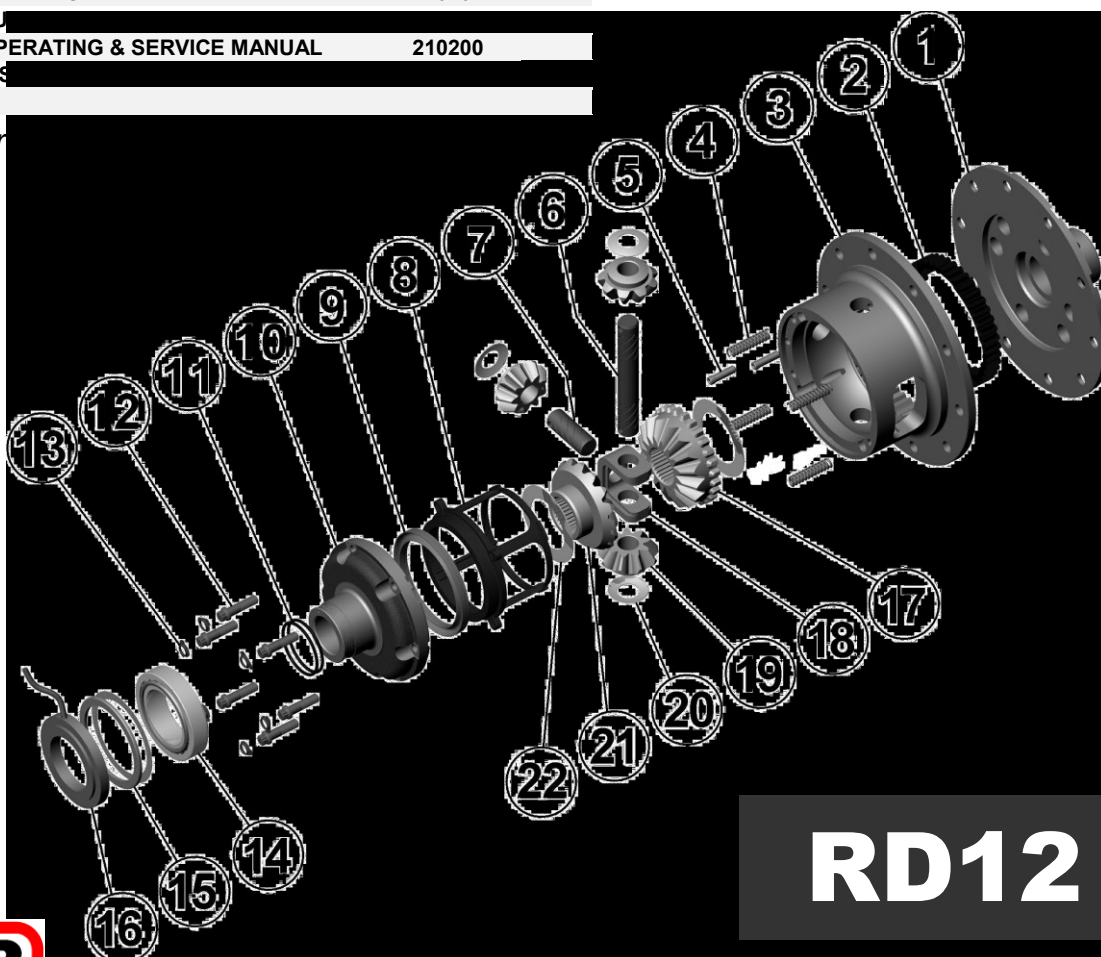
|                    |                            |
|--------------------|----------------------------|
| Axle Spline        | 30 tooth, Ø33.3mm [1.31"]  |
| Ratio Supported    | 3.73:1 & up                |
| Ring Gear ID       | 138.1mm [5.44"]            |
| Ring Gear OD       | 225mm [8.9"]               |
| Ring Gear Bolts    | 12 bolts on Ø165mm [6.50"] |
| Ring Gear Torque   | 75Nm [55 ft-lb]            |
| Backlash           | 0.15-0.25mm [0.006-0.010"] |
| Bearing Cap Torque | 81Nm [60 ft-lb]            |

### Notes:

- For replacement O-rings use only BS132 Viton 75
- For replacement bearing use Timken part #LM603049 / LM603011.  
  
For information on RD12 models with metal pistons, contact ARB.  
  
Ring gear bolts are 3/8" - 24 left-hand thread, and must be removed in a clockwise direction.
- Available only as complete 5 gear set #728A011C

| ITEM # | QTY | DESCRIPTION                        | PART #   | NOTES |
|--------|-----|------------------------------------|----------|-------|
| 01     | 1   | FLANGE CAP                         | 020801   |       |
| 02     | 1   | CLUTCH GEAR                        | 050202   |       |
| 03     | 1   | DIFFERENTIAL CASE                  | 011007   |       |
| 04     | 4   | RETURN SPRING                      | 150101   |       |
| 05     | 2   | CROSS SHAFT RETAINING PIN          | 120303   |       |
| 06     | 1   | LONG CROSS SHAFT                   | 060205   |       |
| 07     | 1   | SHORT CROSS SHAFT                  | 060402   |       |
| 08     | 1   | PISTON                             | 040202   |       |
| 09     | 1   | BONDED SEAL                        | 160705   |       |
| 10     | 1   | CYLINDER CAP                       | 030213   |       |
| 11     | 2   | SEAL HOUSING O-RING                | 160205   | 1     |
| 12     | 6   | CYLINDER CAP RETAINING BOLT        | 200205   |       |
| 13     | 6   | LOCKING TAB (8mm)                  | 150401   |       |
| 14     | 1   | TAPERED ROLLER BEARING             | 160104   | 2     |
| 15     | 1   | SHIM KIT                           | SHK002   |       |
| *      | 1   | MASTER SHIM                        | 150320   |       |
| 16     | 1   | SEAL HOUSING ASSEMBLY              | 080501   |       |
| 17     | 1   | SPLINED SIDE GEAR                  | SEE NOTE | 3     |
| 18     | 1   | SPIDER BLOCK                       | 070301   |       |
| 19     | 3   | PINION GEAR                        | SEE NOTE | 3     |
| 20     | 3   | PINION THRUST WASHER               | 151102   |       |
| 21     | 1   | SIDE GEAR                          | SEE NOTE | 3     |
| 22     | 2   | SIDE GEAR THRUST WASHER            | 151002   |       |
| *      | 1   | 'C' CLIP KIT                       | CCK004   |       |
| *      | 2   | CYLINDER CAP RETAINING BOLT        | 200207   |       |
| *      | 2   | LOCKING TAB (6mm)                  | 150402   |       |
| *      | 1   | BULKHEAD FITTING KIT (O-RING TYPE) | 170111   |       |
| *      | 1   | PUSH-IN FITTING (5mm to 1/8" BSPP) | 170201   |       |
| *      | 1   | AIR LINE (5mm DIA X 6m LONG)       | 170301   |       |
| *      | 1   | NIPPLE (1/8" to 1/8" BSPT)         | 170501   |       |
| *      | 1   | SOLENOID VALVE (12V)               | 180103   |       |
| *      | 1   | SWITCH                             | 180209   |       |
| *      | 1   | SWITCH COVER (REAR)                | 180211   |       |
| *      | 10  | CABLE TIE                          | 180301   |       |
| *      | 1   | WARNING LABEL                      | 210101   |       |
| *      | 1   | BU                                 |          |       |
| *      | 1   | OPERATING & SERVICE MANUAL         | 210200   |       |
| *      | 1   | INS                                |          |       |

\* Not illustr



# RD12

