

# ARB AIR LOCKER *Air Operated Locking Differentials*

## **RD99** Ford 9",35 SPL,2" BRNG

### Specs:

Axle Spline	35 tooth, Ø38.1mm [1.50"]
Ratio Supported	All
Ring Gear ID	127.0mm [5.00"]
Ring Gear OD	229mm [9"]
Ring Gear Bolts	10 bolts on Ø152mm [6.00"]
Ring Gear Torque	95Nm [70 ft-lb]
OEM Backlash	0.25-0.41mm [0.010-0.016"]
Non-OEM Backlash	0.18-0.25mm [0.007-0.010"]
Bearing Cap Torque	81Nm [60 ft-lb]

### Notes:

- 1 For replacement O-rings use only BS136 Viton 75.  
  
For the 31 spline Ford 9" refer to RD119 ([Section 2.119](#)).  
  
Refer to seal housing set-up tech note ([Section 5.2](#)).  
  
RD99 does not suit the OEM third member. Aftermarket third member with carrier bearing ID of 50.80mm [2.000"] and a bearing thickness of 21.59mm [0.850"] must be used.
- 2 Available only as complete 6 gear set # 728H031

ITEM #	QTY	DESCRIPTION	PART #	NOTES
01	1	TAPERED ROLLER BEARING	NOT SUPPLIED	
02	1	FLANGE CAP ASSEMBLY	027303	
03	1	SPLINED SIDE GEAR	SEE NOTE	2
04	1	SPIDER BLOCK	070201	
05	1	LONG CROSS SHAFT	060204	
06	1	SIDE GEAR	SEE NOTE	2
07	2	COUNTERSUNK SCREW	200213	
08	3	CROSS SHAFT RETAINING PIN	120701	
09	1	TAPERED ROLLER BEARING	NOT SUPPLIED	
10	1	SEAL HOUSING RETAINING CLIP	150601	
11	1	SEAL HOUSING	081901	
12	2	SEAL HOUSING O-RING	160207	1
13	1	ADJUSTER NUT	100105	
14	1	BONDED SEAL	160703	
15	1	CLUTCH GEAR	050804	
16	12	RETURN SPRING	150113	
17	2	SIDE GEAR THRUST WASHER	151010	
18	2	SHORT CROSS SHAFT	060403	
19	4	PINION GEAR	SEE NOTE	2
20	4	PINION THRUST WASHER	151110	
21	1	DIFFERENTIAL CASE	012205	
*	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 (FRONT)	180210	
*	1	SWITCH COVER (REAR)	180211	
*	10	CABLE TIE	180301	
*	1	WARNING LABEL	210101	
*	1	BUMPER STICKER	210102	
*	1	OPERATION & SERVICE MANUAL	210200	
*	1	INSTALLATION GUIDE	210299	

\* Not illustrated in exploded view.

