



**AIRLOCKER** **ARB**

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**AIR OPERATED LOCKING DIFFERENTIAL**



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**ARB DIFFERENTIAL COVER**

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# **ARB 4x4 ACCESSORIES**

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# 1 Introduction

## ARB DIFFERENTIAL COVERS

### 1.1 Model Range

<b>ARB Part #</b>	<b>APPLICATION(s)</b>
<b>0750001</b>	<b>Dana 50,60 and Land Rover Salisbury</b>
<b>0750002</b>	<b>Dana 30</b>
<b>0750003</b>	<b>Dana 44</b>
<b>0750004</b>	<b>Dana 35 and Dana 35C</b>
<b>0750005</b>	<b>Chrysler 8.25"</b>
<b>0750006</b>	<b>Ford 8.8"</b>
<b>0750007</b>	<b>GM 8.5"/10 Bolt/AAM 860</b>
<b>0750008</b>	<b>Nissan M226</b>
<b>0750009</b>	<b>Jeep JL M186</b>
<b>0750010</b>	<b>Jeep JL M200</b>
<b>0750011</b>	<b>Jeep JL M210 Rubicon Front</b>
<b>0750012</b>	<b>Jeep JL M220 Rubicon Rear</b>

### 1.2 Features

- High tensile solid nodular iron structure (tougher and harder than solid carbon steel) protects the differential and ring & pinion set from the obstacle impact hazards of competition rock crawling, or extreme off road trails.
- Computer optimized cross brace design adds more than 1300 Nm/deg [960 ft-lb] of torsional rigidity to the entire axle assembly. This increased flexural strength in the housing helps keep the ring & pinion gears meshing on the flat faces of the teeth, which greatly increases ring & pinion life and overall maximum load strength.
- Carrier bearing life is prolonged, especially on high output vehicles, by the improved support given to the bearing alignment.
- Low-profile shape of the outside surface helps maximize the running gear clearance around the cover.
- Maximized approach / departure angled exterior surfaces help to minimize rock / obstacle hang-ups.
- High tensile cap screws (supplied with the kit) are recessed into the cover to protect them from contact with obstacles which might damage or loosen them.

# 1 Introduction

- Low profile drain plug design resists damage from obstacle contact.

**Note:** Most of the standard Dana Spicer Salisbury type axles do not come factory equipped with oil drain plugs of any kind, and therefore the cover must usually be pried away from the housing in order to expel the oil. This can be very messy, and if you only wanted to sample the oil for contamination it can be very wasteful.

- Unique dipstick / filler cap design allows differential oil level to be adjusted higher for customized high driveline angles (i.e., raised vehicles with partially rotated differential housings).
- Combination of the high filler point and dipstick allows the oil to be checked for water contamination (i.e., grey foam) without having to drain the oil (i.e., without losing any oil on the trail).
- Top quality high power neodymium magnets (rare earth) are used in both the drain plug AND the dipstick to collect metallic wear particles as the vehicle moves.
- Magnet location in the end of the dipstick allows the oil to be checked for tell-tale signs of internal damage (e.g., metal debris from ring & pinion or carrier bearing damage) without having to drain the oil.
- Covers are colour powder coated, CNC machined, and then clear coated for a durable, professional, long lasting finish. All hardware is corrosion protected.
- 350% improvement in the looks of your vehicle from underneath!

## 1.3 Tool-Kit Recommendations

Below is a list of tools and supplies you may need to complete this installation. Requirements for your vehicle may vary. Please consult your vehicle service manual for additional recommendations.

- Standard automotive sizes (metric and/or imperial) of sockets, wrenches, Allen keys, and drills.
- A torque wrench.
- A lubricant drain reservoir.
- Either a replacement gasket, or a differential gasket sealant (such as Loctite 587).
- A sufficient volume of differential oil to completely refill your housing. (see the *ARB Air Locker Operating and Service Manual* for recommended lubricants)

## 2 Installation

### 2.1 Differential Fluid Drain

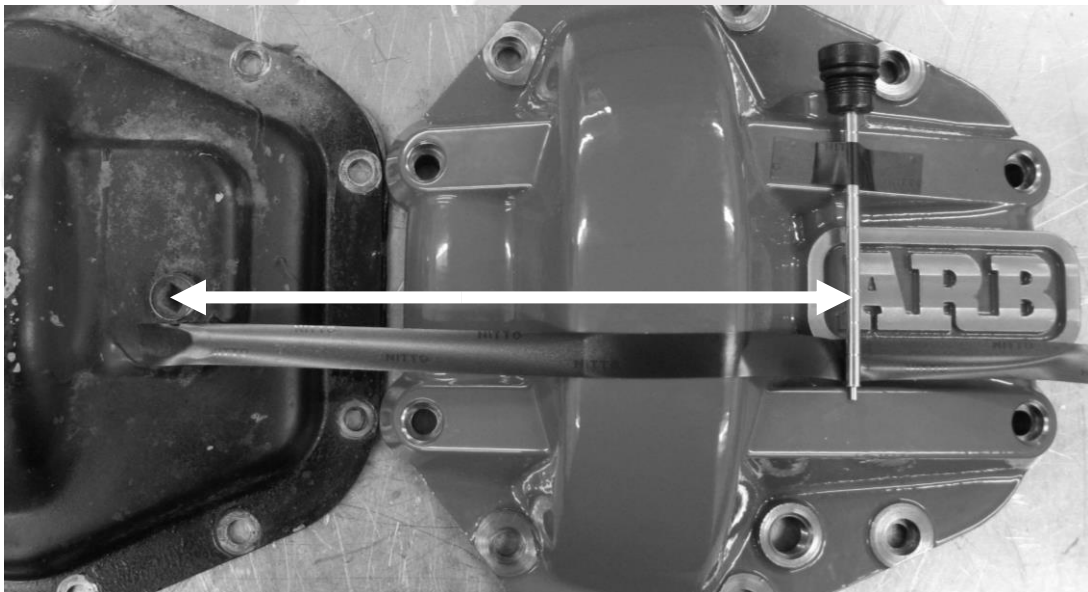
**HINT :** This is a good time to check for metal particles in your oil, on your drain plug, or in the bottom of the housing which may indicate a worn bearing or differential component.

- Clean any loose dirt from around the differential cover to avoid contaminating the differential cavity.
- Position a fluid drain reservoir under the differential and loosen all differential cover plate retaining bolts.
- Gently pry the cover plate away from the differential housing to completely drain all differential fluid.
- Once drained, remove the differential cover.

### 2.2 Determining Oil Level

The following is a guideline to determine the correct differential oil level in an axle with the standard driveline angle.

- Place the ARB Differential Cover on a bench next to the standard differential cover that you have removed from the vehicle.
- Using a straight edge (electrical tape does a great job), make a line from the bottom of the standard cover's filler hole to the corresponding point on the ARB Differential Cover.
- Hold the Dipstick/Filler Cap on the outside of the ARB Differential Cover so that it is sitting in the position it would be if it was just placed in the filler hole. From this you can determine how far up the dipstick the oil level should be.



- Using a file, clearly mark the dipstick at the desired fill level so you can effectively oil fill to that mark later.

## 2 Installation

### 2.3 Installing the new Differential Cover

#### **IMPORTANT :**

**ARB covers have been designed for use with the most commonly available applications. For some applications, modifications, such as grinding clearance into the differential cover or re-routing the brake lines, may be required for fitment.**

- Clean all oil residue off the differential housing.
- Place the ARB Differential Cover in position on the differential housing to ensure adequate clearance to surrounding components.

**NOTE :** **Checking for clearance between diff cover and all internal parts is crucial before tightening the cover bolts. Failure to do this may cause damage to your differential.**

**NOTE :** **Check that the supplied bolts will clamp down on the diff cover properly. Due to inconsistent tapping depths on the axle housings, it may be necessary to tap the threads deeper, or shorten some of the bolts.**

- Apply gasket sealant, or a replacement gasket to the flange of the differential housing.
- Install the ARB Differential Cover onto the housing and screw in the bolts.

**NOTE :** **Dana 50 and 60 differentials utilize 3/8" UNC Cap Screws which must be torqued to 61.6Nm [45.4ft-lb]. Differentials utilizing 5/16" UNC Cap Screws must be torqued to 34.5Nm [25.4ft-lb].**

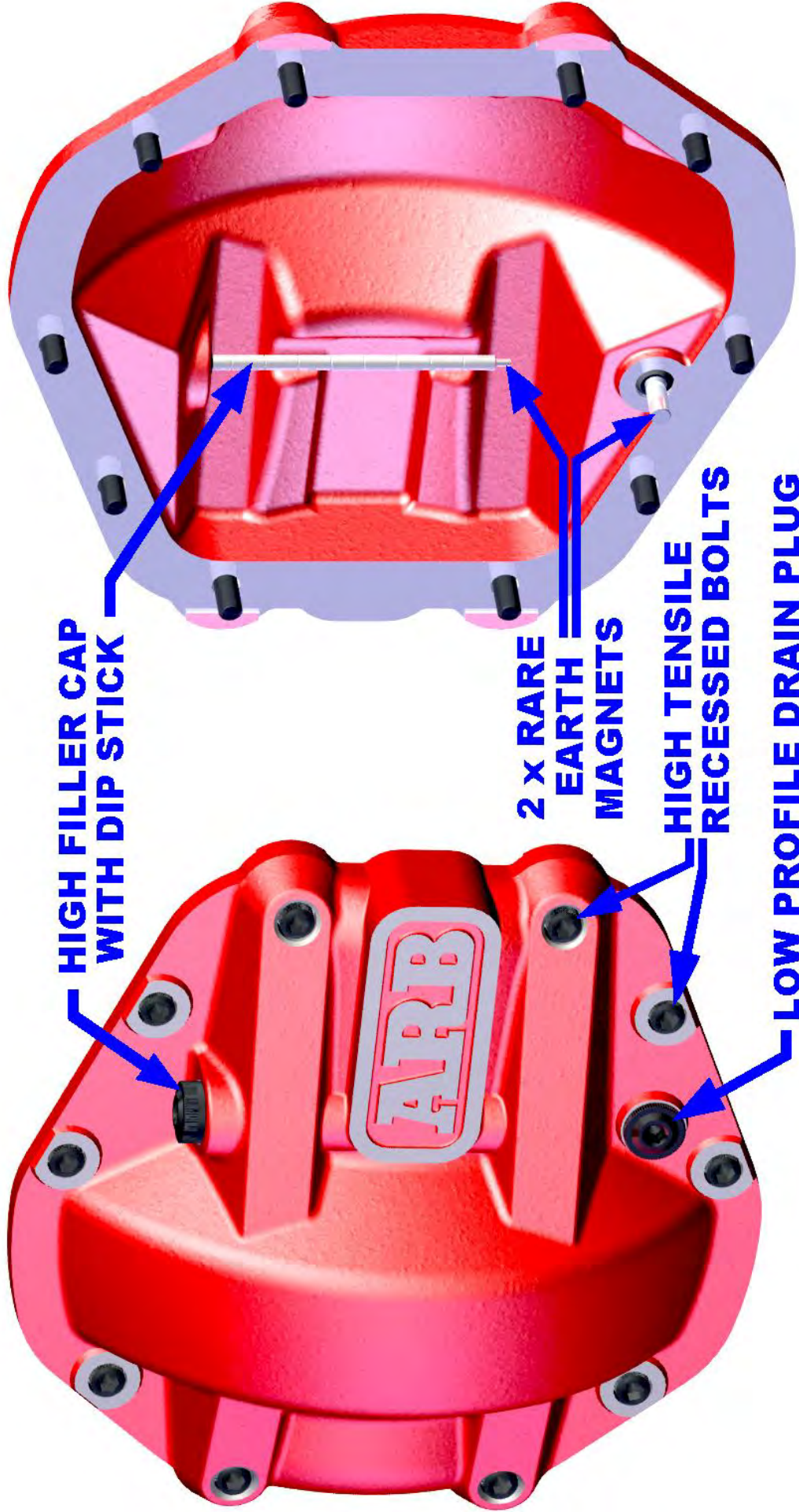
**NOTE :** **Land Rover Salisbury models require the use of metric M10 Cap Screws (not included). Use torque settings to suite the grade of cap screw purchased.**

- Tighten each bolt to the required torque.

**NOTE :** **If using a soft gasket then it may be necessary to re-torque the bolts at a later date, as the gasket may compress over time and release the bolt torque or weep oil.**

- Install the drain plug and hand tighten using an 8mm Allen Key.
- Using the dipstick to check the oil level, fill the differential with the appropriate oil to the required level, ensuring not to overfill.
- Install the filler plug/dipstick and hand tighten with an 8mm Allen Key.

# ARB DIFFERENTIAL COVER



HIGH FILLER CAP WITH DIP STICK

2 x RARE EARTH MAGNETS

HIGH TENSILE RECESSED BOLTS

LOW PROFILE DRAIN PLUG

### 3 Parts List

#### ARB Differential Cover – Dana 60 #0750001

ITEM #	QTY	DESCRIPTION	PART #
01	1	D60 DIFFERENTIAL COVER	0750101
02	4	3/8" x 1.5" CAP SCREW	0750401
03	6	3/8" x 0.75" CAP SCREW	0750402
04	1	MAGNETIC DRAIN PLUG ASSY	0750201
05	1	MAGNETIC FILLER PLUG ASSY, 139mm	0750205
06	1	DRAIN PLUG O-RING	160244
07	1	FILLER PLUG O-RING	160245
08	1	INSTALLATION GUIDE	21020751

#### ARB Differential Cover – Dana 30 #0750002

ITEM #	QTY	DESCRIPTION	PART #
01	1	D30 DIFFERENTIAL COVER	0750102
02	4	5/16" x 1.5" CAP SCREW	0750403
03	6	5/16" x 0.75" CAP SCREW	0750404
04	1	MAGNETIC DRAIN PLUG ASSY	0750201
05	1	MAGNETIC FILLER PLUG ASSY, 113mm	0750203
06	1	DRAIN PLUG O-RING	160244
07	1	FILLER PLUG O-RING	160245
08	1	INSTALLATION GUIDE	21020751

#### ARB Differential Cover – Dana 44 #0750003

ITEM #	QTY	DESCRIPTION	PART #
01	1	D44 DIFFERENTIAL COVER	0750103
02	4	5/16" x 1.5" CAP SCREW	0750403
03	6	5/16" x 0.75" CAP SCREW	0750404
04	1	MAGNETIC DRAIN PLUG ASSY	0750201
05	1	MAGNETIC FILLER PLUG ASSY, 113mm	0750203
06	1	DRAIN PLUG O-RING	160244
07	1	FILLER PLUG O-RING	160245
08	1	INSTALLATION GUIDE	21020751

#### ARB Differential Cover – Dana 35 #0750004

ITEM #	QTY	DESCRIPTION	PART #
01	1	D35 DIFFERENTIAL COVER	0750104
02	4	5/16" x 1.5" CAP SCREW	0750403
03	6	5/16" x 0.75" CAP SCREW	0750404
04	1	MAGNETIC DRAIN PLUG ASSY	0750201
05	1	MAGNETIC FILLER PLUG ASSY, 100mm	0750202
06	1	DRAIN PLUG O-RING	160244
07	1	FILLER PLUG O-RING	160245
08	1	INSTALLATION GUIDE	21020751



### 3 Parts List

#### ARB Differential Cover – Chrysler 8.25” #0750005

ITEM #	QTY	DESCRIPTION	PART #
01	1	CHRYSLER 8.25” DIFFERENTIAL COVER	0750105
02	4	5/16” x 1.5” CAP SCREW	0750403
03	6	5/16” x 0.75”CAP SCREW	0750404
04	1	MAGNETIC DRAIN PLUG ASSY	0750201
05	1	MAGNETIC FILLER PLUG ASSY, 100mm	0750202
06	1	DRAIN PLUG O-RING	160244
07	1	FILLER PLUG O-RING	160245
08	1	INSTALLATION GUIDE	21020751

#### ARB Differential Cover – Ford 8.8” #0750006

ITEM #	QTY	DESCRIPTION	PART #
01	1	FORD 8.8” DIFFERENTIAL COVER	0750106
02	4	5/16” x 1.5” CAP SCREW	0750403
03	6	5/16” x 0.75”CAP SCREW	0750404
04	1	MAGNETIC DRAIN PLUG ASSY	0750201
05	1	MAGNETIC FILLER PLUG ASSY, 100mm	0750202
06	1	DRAIN PLUG O-RING	160244
07	1	FILLER PLUG O-RING	160245
08	1	INSTALLATION GUIDE	21020751

#### ARB Differential Cover – GM8.5” #0750007

ITEM #	QTY	DESCRIPTION	PART #
01	1	GM 8.5” DIFFERENTIAL COVER	0750107
02	4	5/16” x 1.5” CAP SCREW	0750403
03	6	5/16” x 0.75”CAP SCREW	0750404
04	1	MAGNETIC DRAIN PLUG ASSY	0750201
05	1	MAGNETIC FILLER PLUG ASSY, 100mm	0750202
06	1	DRAIN PLUG O-RING	160244
07	1	FILLER PLUG O-RING	160245
08	1	INSTALLATION GUIDE	21020751

#### ARB Differential Cover – Nissan M226 #0750008

ITEM #	QTY	DESCRIPTION	PART #
01	1	NISSAN M226 DIFFERENTIAL COVER	0750108
02	4	5/16” x 1.5” CAP SCREW	0750403
03	8	5/16” x 0.75”CAP SCREW	0750404
04	1	MAGNETIC DRAIN PLUG ASSY	0750201
05	1	MAGNETIC FILLER PLUG ASSY, 113mm	0750203
06	1	DRAIN PLUG O-RING	160244
07	1	FILLER PLUG O-RING	160245
08	1	INSTALLATION GUIDE	21020751
*	1	HANDBRAKE CABLE BRACKET	0750501

### 3 Parts List

<b>ARB Differential Cover – Jeep JL M186 #0750009</b>			
<b>ITEM #</b>	<b>QTY</b>	<b>DESCRIPTION</b>	<b>PART #</b>
01	1	JEEP JL M186 DIFFERENTIAL COVER	0750109
02	4	M8 x 30 CAP SCREW	0750406
03	8	M8 x 20 CAP SCREW	0750405
04	1	MAGNETIC DRAIN PLUG ASSY	0750201
05	1	MAGNETIC FILLER PLUG ASSY, 100mm	0750202
06	1	DRAIN PLUG O-RING	160244
07	1	FILLER PLUG O-RING	160245
08	1	INSTALLATION GUIDE	21020751
<b>ARB Differential Cover – Jeep JL M200 #0750010</b>			
<b>ITEM #</b>	<b>QTY</b>	<b>DESCRIPTION</b>	<b>PART #</b>
01	1	JEEP JL M200 DIFFERENTIAL COVER	0750110
02	4	M8 x 30 CAP SCREW	0750406
03	8	M8 x 20 CAP SCREW	0750405
04	1	MAGNETIC DRAIN PLUG ASSY	0750201
05	1	MAGNETIC FILLER PLUG ASSY, 100mm	0750202
06	1	DRAIN PLUG O-RING	160244
07	1	FILLER PLUG O-RING	160245
08	1	INSTALLATION GUIDE	21020751
<b>ARB Differential Cover – Jeep JL M210 #0750011</b>			
<b>ITEM #</b>	<b>QTY</b>	<b>DESCRIPTION</b>	<b>PART #</b>
01	1	JEEP JL M210 DIFFERENTIAL COVER	0750111
02	4	M8 x 30 CAP SCREW	0750406
03	8	M8 x 20 CAP SCREW	0750405
04	1	MAGNETIC DRAIN PLUG ASSY	0750201
05	1	MAGNETIC FILLER PLUG ASSY, 113mm	0750203
06	1	DRAIN PLUG O-RING	160244
07	1	FILLER PLUG O-RING	160245
08	1	INSTALLATION GUIDE	21020751
<b>ARB Differential Cover – Jeep JL M220 #0750012</b>			
<b>ITEM #</b>	<b>QTY</b>	<b>DESCRIPTION</b>	<b>PART #</b>
01	1	JEEP JL M220 DIFFERENTIAL COVER	0750112
02	4	M8 x 30 CAP SCREW	0750406
03	8	M8 x 20 CAP SCREW	0750405
04	1	MAGNETIC DRAIN PLUG ASSY	0750201
05	1	MAGNETIC FILLER PLUG ASSY, 113mm	0750203
06	1	DRAIN PLUG O-RING	160244
07	1	FILLER PLUG O-RING	160245
08	1	INSTALLATION GUIDE	21020751

\* *Not illustrated in exploded view*

Part No. 21020751  
Revision Date 7/08/2019  
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