



Installation Instructions CAST ALUMINUM DIFFERENTIAL COVER for DANA 80

For specific vehicles, see "Applications" tab on this product's webpage.

Part No. 11315

Rev. 1/8/2020

WORK SAFELY! For maximum safety, perform this installation on a clean, level surface and with the engine turned off. Place blocks or wedges in front of and behind both rear wheels to prevent movement in either direction.

CAUTION: To avoid any possibility of bodily injury or damage to vehicle, do not attempt installation until you are confident that the vehicle is safely secured and will not move.

This B&M Cast Aluminum Differential Cover has been designed to work on most vehicles equipped with a Dana 80 style axle. This cover provides several advantages over stock covers. The extra capacity provides increased oil volume and added cooling, while the thick aluminum construction increases case rigidity. The reinforced center bar, along with the load bolts, prevents bearing cap deflection under severe loads. The magnetic drain plug feature allows regular gear oil changes without the usual mess, and limits ferrous debris from circulating in the axle.

INTRODUCTION

This cover can be installed in about an hour by carefully following the instructions. It is suggested that the vehicle be allowed to cool off for a few hours to avoid burns from hot oil and parts. The vehicle should be off the ground for ease of installation - jack stands, wheel ramps or a hoist will work fine. Also, have a small box to put bolts in and a drain pan to catch oil.

CAUTION: MAKE SURE VEHICLE IS FIRMLY SUPPORTED - DO NOT WORK UNDER A VEHICLE IF IT IS SUPPORTED BY ONLY A JACK!

INSTALLATION

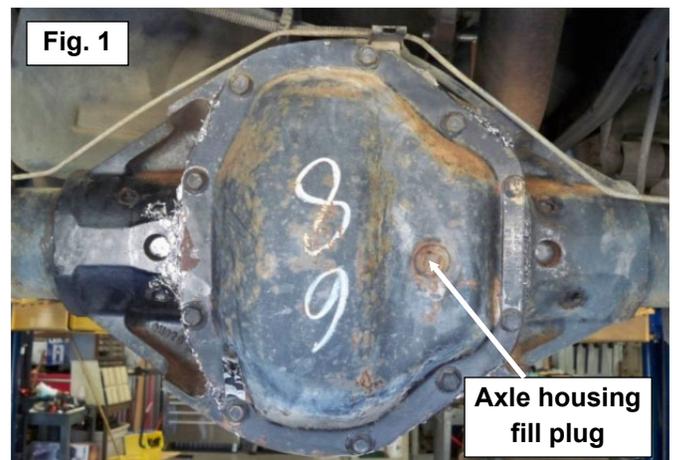
1. Clean the axle housing cover area from dirt and other debris.

NOTE: On some vehicles it might be necessary to remove some parts (e.g. sway bar, panhard rod) to make the installation of the cover easier.

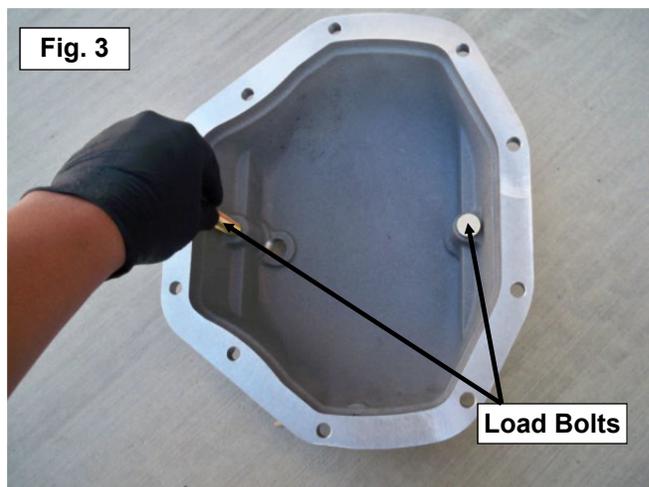
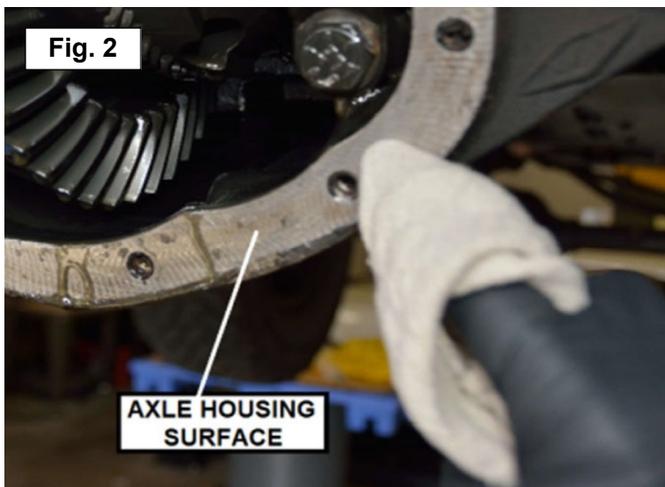
2. Place a drain pan underneath the axle housing.

3. Loosen the axle housing fill plug with a 1/2" square ratchet (See Figure 1).

4. Remove all the bolts except one at the top. Loosen the remaining bolt but do not remove.



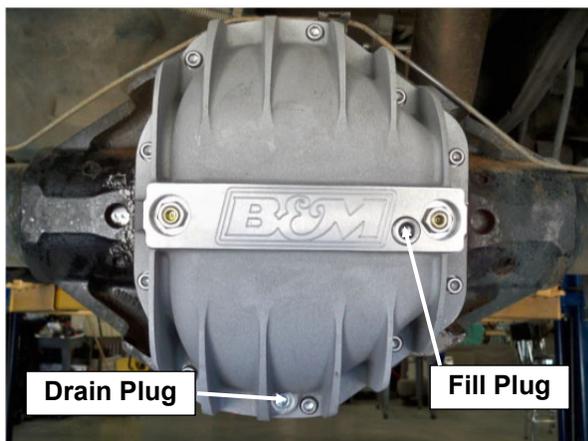
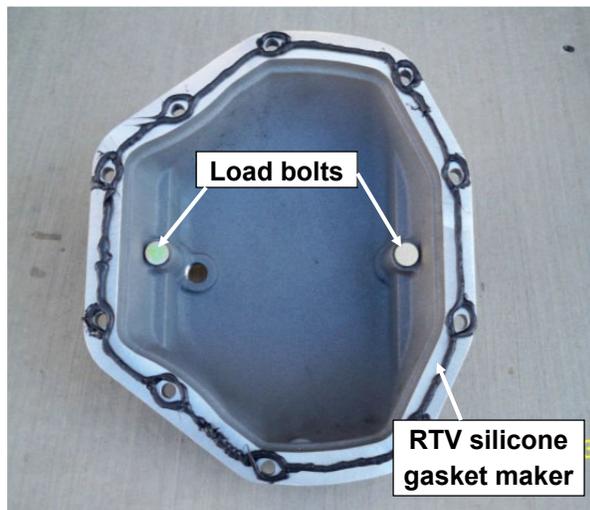
5. Carefully pry the cover loose with a flat head screw driver, being careful not to damage the surface, and allow the oil to drain. Remove the last bolt and the cover once completely drained.
6. Using a dry lint free rag, clean the accessible areas of the axle housing and check the internal components for visible excessive wear or other problems.
7. Clean all gasket material from the axle housing surface (See Figure 2).
8. We recommend running a 3/8"-16 tap through each threaded cover hole on the axle housing to ensure an accurate torque on all bolts.
9. Install the supplied load bolts in each boss from the inside of the B&M Cast Aluminum Differential Cover until they bottom out (See Figure 3).
10. Apply a bead of RTV silicone gasket maker to the cover flange. Run the bead inside the bolt holes (See Figure 4).
11. Install the B&M Cast Aluminum Cover on the axle housing using a supplied bolt and washer at a bottom hole on the cover so it can be used as a guide.



12. Install the rest of the supplied bolts and washers and torque to 25 ft/lb. in a crisscross pattern.
13. Screw in the two load bolts by hand until they touch the bearing caps. Torque the load bolts to 5 ft/lb. max.
NOTE: Do not over torque the load bolts as you run the risk of distorting the bearing caps, creating abnormal wear and premature failure.
14. Apply a very small amount of RTV on the threads of the load bolts, and then install the two supplied jam nuts onto the load bolts. Torque the jam nuts to 5 ft/lb.
15. Install the supplied magnetic 1/4" NPTF drain plug on the B&M Cast Aluminum Cover and tighten.
16. Fill with factory recommended gear oil using the B&M Cast Aluminum Cover fill plug hole. Add gear oil until it runs out of the fill plug hole.

17. Install the supplied 1/2" NPT fill plug on the B&M Cast Aluminum Cover and tighten.

18. Install and tighten any other parts (e.g., sway bar, panhard rod) if removed.



Tools List

Jack & Jack Stands
Drain Pan
Rags
RTV Silicone Gasket Maker
Gear Oil
Gear Oil Pump
Torque Wrench
3/8" Ratchet & 3" Extension
1/4" Allen
1/2" Ratchet
5/16" Allen
3/8" Allen
9/16" Socket
3/4" Socket
Flat Blade Screwdriver

Parts List

1 Cast Aluminum Cover
2 Load Bolts
2 Jam Nuts
1 1/4" NPTF Drain Plug
2 1/2" NPT Filler Plug
10 3/8"-16 Bolts
10 5/8" Washers

IMPORTANT: RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE

