



## Installation Instructions CAST ALUMINUM FRONT END COVER

Fits: Vehicles w/Dana 30 front differential  
See Application Guide for Specific Dimensions  
Catalog # 10310

**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 Front End Cover has been designed to work on most vehicles equipped with a Dana 30 axle. The B&M Cast Aluminum Front End Cover provides several advantages over stock factory covers. The extra capacity provides increased oil volume and added cooling, while the thick aluminum construction increases case rigidity. 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.

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

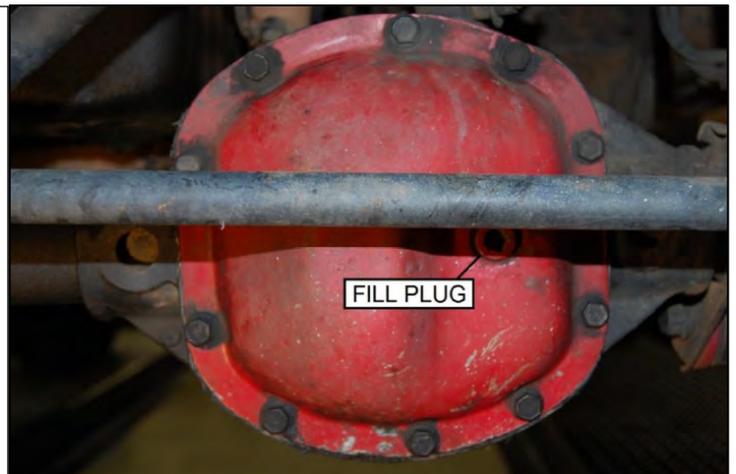
### INSTALLATION

1. Clean 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. **(OPTIONAL).** Loosen the fill plug with a 3/8" square ratchet and extension. This is done as a precaution; if stock cover needs to be re-installed for any reason, there will be no question whether the plug is seized or cannot be removed.



4. Remove the 10 bolts around the cover.
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.
6. Using a dry lint free rag, clean the accessible areas of the axle housing and check internal components for visible excessive wear or other problems.
7. Clean all gasket material from the axle housing surface.
8. We recommend running a 5/16"-18 tap through each threaded cover hole on the axle housing to ensure an accurate torque on all bolts.
9. Apply a bead of RTV silicone gasket maker to the B&M Cast Aluminum Front End Cover. Run the bead inside the bolt holes.
10. Install the B&M Cast Aluminum Front End 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.



11. Install the rest of the supplied bolts and washers and torque to 15 ft/lb. in a crisscross pattern.
12. Install the supplied magnetic 1/4" NPTF drain plug on the B&M Cast Aluminum Front End Cover and tighten.
13. This B&M Cast Aluminum Front End Cover has 2 fill holes, each at a different height to accommodate application. Match the height of the drain hole from the B&M Cast Aluminum Front End Cover with the height of the drain hole from the stock cover. Once that is determined, apply RTV to threads on fill plug, and install the fill plug to the fill hole that will not be used.
14. Fill with factory recommended gear oil using the B&M Cast Aluminum Front End Cover fill plug hole. Add gear oil until oil runs out of the fill hole.
15. Apply RTV to threads on 2nd fill plug and Install to 2nd fill hole.
16. Install and tighten any other parts (e.g., sway bar, pan hard rod) if removed.

### Parts List

1 Cast Aluminum Cover  
1 1/4" NPTF Drain Plug  
2 1/2" NPT Filler Plug  
10 5/16"-18 Bolts  
10 5/16" Washers

### 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  
3/8" Allen  
1/2" Socket  
3/4" Socket  
Flat Blade Screwdriver

**IMPORTANT: RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE**

### Technical Service

A highly trained technical service department is maintained by Hurst Performance to answer your technical questions, provide additional product information and offer various recommendations.

Technical service calls, correspondence, and warranty questions should be directed to:



**B&M Racing & Performance Products**

(707) 544-4761

[www.bmracing.com](http://www.bmracing.com)