

## **Roc Doc Rear Diff Cover Installation Instructions**

1. Remove Drain Plug, located in the bottom of the Differential<sup>I</sup>, using a 3/8" socket drive as a hex key. Clean the area around the drain plug before removing. Position the drain pan below the drain plug. Make sure the socket drive is fully inserted into the drain plug, clean with a pick/screw driver if necessary.
2. Allow fluid to drain faster by removing the OEM fill plug (3/8" socket drive or hex key).
3. Remove the 10 mounting bolts with a 13MM socket or wrench from the OEM cover. Note that the bolt through the brake pipe bracket is stamped in place<sup>II</sup> and if you intend to use the stock bracket, you can re-use the stock 13MM bolt. Remove, clean and paint the OEM brake pipe bracket if you do use it as it will rust and eventually stain an unpainted Roc Doc cover. We recommend that you purchase one of our SS Antenna Brackets to replace the OEM brake pipe bracket and use a short SS 8MM bolt, nut and lock washer (not included) to attach the brake line plate to our bracket.
4. With all the bolts removed, remove the stock cover. Carefully use a screw driver to pry the cover loose, or a rubber mallet to tap crossways on the cover to break it free.
5. Use a lint free rag or shop towel to wipe the crud, if any, out of the bottom of the differential. **IMPORTANT:** Clean off ALL old gasket material and silicone from the differential gasket mounting surface with a gasket scraper, wipe it clean and dry of fluid (break cleaner can be used to clean the surface of any gear lube).
6. We have supplied a Fel-Pro Gasket and we recommend you use it with Permatex HIGH TACK Gasket Sealant according to the instructions on the can. While it is possible to form a gasket with RTV, we do not recommend this alternative.
7. With the HIGH TACK Gasket Sealant on both sides of the gasket, the gasket surface of the Roc Doc Diff Cover and the differential, line up the cover on the mounting holes and insert all the supplied mounting bolts with a lock washer on each through the Roc Doc cover into the differential and hand snug. **IMPORTANT:** With all 10 bolts snugged in place, torque all bolts to 20 ft-lbs starting at bottom center in a crisscross pattern.
8. Clean and install Drain Plug. We recommend you use Loctite PST. Do not over-tighten.
9. Fill Differential with gear oil per owner's manual. Correct level is at bottom of fill hole.
10. Install Fill Plug with Teflon thread tape or High Tack gasket seal on the threads, torque to no more than 20 ft-lbs.

### Notes:

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- I. *Not all GM (AAM) 10 Bolt 8.5" Differentials have a drain plug, but the H3 Hummer does.*
  - II. *GM used different brake pipe differential attachment brackets with the H3 2006 through 2008.*