

Differential Cover Installation Instructions

Each kit includes:

- (1) Nodular Iron Differential Cover
- (10) Cover Bolts - Dana 44 or Dana 60
- or
- (13) Cover Bolts - Dynatrac Pro Rock Housing
- (1) Fill Plug – Dana 60, Pro Rock Diff Covers
- or
- (2) Fill Plugs – Dana 44 Cover

Some of the tools & supplies that will be required:

- Calibrated Torque Wrench
- High Temperature Silicone Sealant
- Brake Cleaner or equivalent non-residual parts cleaner

1. Verify that the kit is complete before you begin. If you are missing any parts, contact Dynatrac before you begin installation.
2. Drain the old oil from the differential. Dispose of the oil responsibly.
3. Remove the old differential cover.
4. Clean any gasket material and oil off the differential case housing. New sealant will not seal if there is contamination on the surface being sealed. Be sure that you clean just inside the housing (about 1/2") since that is where your seal will start when the silicone squeezes into the axle.
5. Clean both sealing surfaces with brake cleaner.
6. Make sure that gear oil does not continue to drip down onto the housing gasket surface after it has been cleaned.



WARNING: Failure to clean the surface of the cover and axle housing before applying sealant may result in leaks that could lead to premature failure of the axle.

7. Put a bead of silicone sealant on the housing gasket face. Place the bead to the inside of the cover bolt holes. Do not put your bead of sealant over the holes. The sealant bead should be 1/8" to 1/4" in diameter with no gaps around the entire circumference of the cover.
8. Install the new cover.
9. Torque the bolts to 20-25 ft. lbs. in a crisscross pattern.
10. Let the sealant cure for at least 30 minutes before re-filling the axle with gear lube.

Differential Cover Installation Instructions (cont.)

11. Fill your axle to the proper level with the appropriate gear lube. Check with the manufacturer or your build mechanic for the proper level if you are not sure.
12. The Dana 44 Cover has two fill holes. Fill as follows:
 - a. Most Low-pinion Dana 44's
 - i. Unscrew both fill plugs, and set aside.
 - ii. Fill through the large plug until oil comes out of the small fill hole.
 - iii. Apply Teflon tape thread sealer to small fill plug.
 - iv. Install both fill plugs.
 - b. Most Hi-Pinion Dana 44's – Or if Higher oil level is required
 - i. Unscrew the large fill plugs, and set aside. Make sure the small fill plug has had Teflon tape thread sealer applied, and is tight.
 - ii. Fill through the large plug until desired oil level is reached.
 - iii. Install large fill plug.



WARNING: Filling to the level of the fill hole does not guarantee that you have the proper fluid level for your axle, check with your builder or the manufacturer to determine the proper level of fluid for your application.

13. Check your fluid level after driving the vehicle for the first time to ensure the proper level. Top off again if necessary.
14. Inspect for any leaks from the cover area. If you find a leak, remove the cover and follow steps 4-12 again.



WARNING: Change your axle fluid on a regular maintenance schedule as recommended by the manufacturer.