



Jeep Differential Fluid Replacement

This video guide will show you how to change...

Written By: eCuration



INTRODUCTION

This video guide will show you how to change your differential fluid/ gear oil. Not only that but also clean the inside of the housing and check for damage.

- **CAUTION:** If you have never jacked up your vehicle before, follow this [guide](#).



TOOLS:

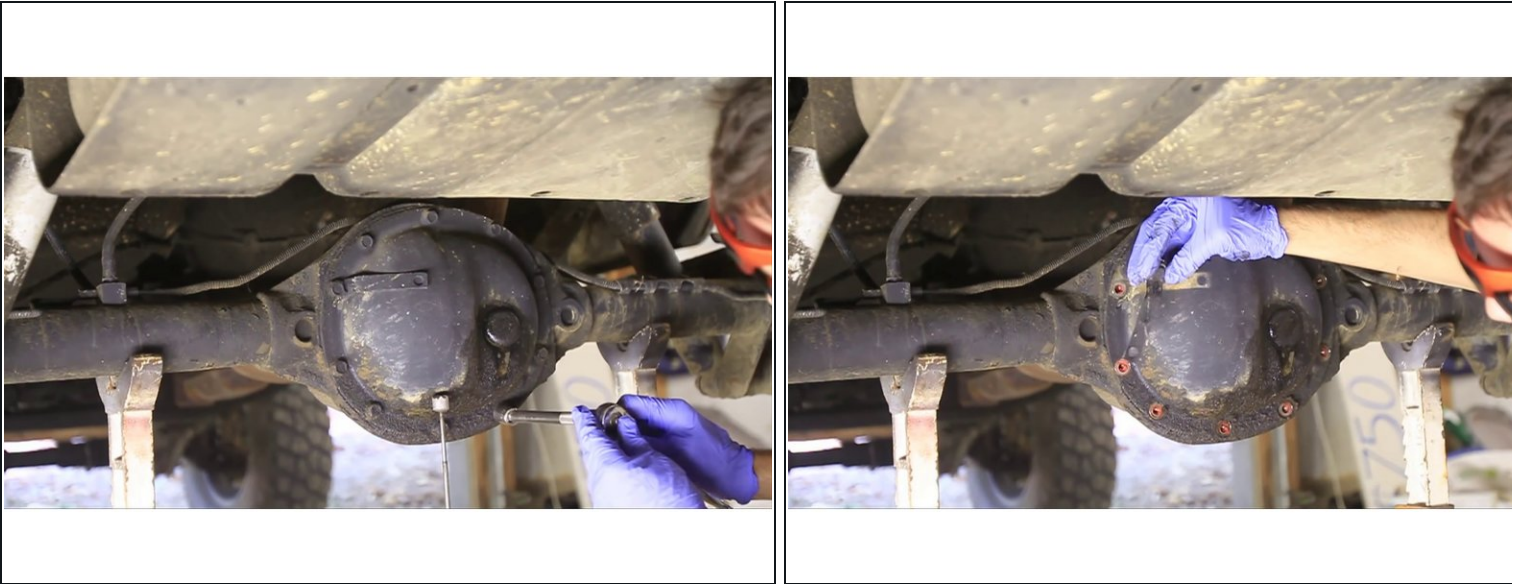
[Hydraulic Floor Jack](#) (1)
[Jack Stand](#) (1)
[Oil Drain Pan](#) (1)
[3/8" Drive Ratchet](#) (1)
[1/2" Socket](#) (1)
[Hammer](#) (1)
[Razor Blade](#) (1)
[Wire Brush](#) (1)
[Aerosol Brake Cleaner](#) (1)
[Paper Towels](#) (1)
[Black RTV Silicone](#) (1)



PARTS:

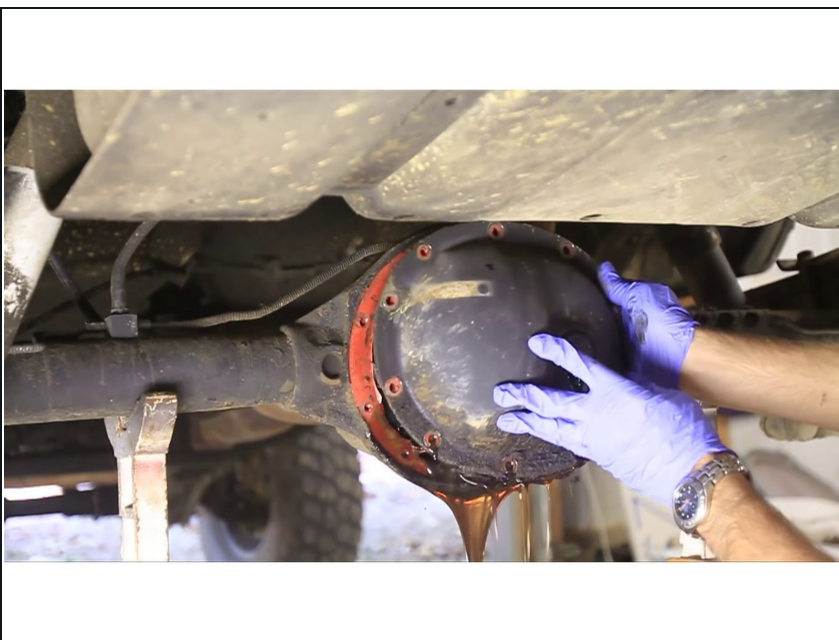
[Gear Oil](#) (6)

Step 1 — Remove the bolts from the differential cover



- Use a socket wrench or an air gun to remove the bolts from the differential cover
 - [source](#)
- Make sure to keep the metal tag with the gear ratio and axle type information
 - [source](#).

Step 2 — Drain the differential fluid



- Place a bucket under the differential
- Use a hammer to tap the cover and let the fluid drain out
- Then, remove the cover
 - [source](#).

Step 3 — Check for damage



- While the cover is off, inspect the ring gear, pinion gear, and spider gears for any damage or missing/broken teeth
 - [source](#)
- Make sure the vehicle is in neutral so you can spin the gears
- Check for metal shavings or sludge at the bottom of the differential
 - [source](#).

Step 4 — Clean the differential housing



- Use brake parts cleaner to clean the inside of the housing
- Wipe it down with paper towels and let it dry
- [source.](#)

Step 5 — Clean the differential cover



- Clean the cover with brake parts cleaner, both inside and outside
- Make sure to remove any old RTV or gasket material from the mating surface
- [source.](#)

Step 6 — Apply RTV



- Apply a bead of RTV sealant around the mating surface of the differential cover, making sure to go around each bolt hole
 - [source](#)
- Use a dry finger to spread the RTV evenly over the surface
 - [source](#)
- Let it sit for a minute to become tacky.

Step 7 — Reinstall the differential cover



- Align the cover with the differential housing and press it into place
- Reinstall the bolts and the metal tag you removed earlier, tightening them in a criss-cross pattern to ensure even pressure on the gasket
- [source](#).

Step 8 — Fill the differential with gear oil



- After letting the RTV dry for a short time, remove the fill plug and fill the differential with gear oil until it starts to spill out of the fill hole
- [source](#)
- Replace the fill plug and clean up any excess oil.

To reassemble your device, follow these instructions in reverse order.