



Diesel High Pressure Oil Pumps

Refer to an authorized original equipment service manual for detailed installation instructions. If you do not have the experience, proper tools or manuals, please seek the services of a qualified technician.



Replacement TIME:

4 hrs

COMMON SYMPTOMS

- Oil leaks
- HPOP reservoir low oil level
- Hard start when hot
- Poor idle or acceleration
- Decreased fuel efficiency
- Tailpipe smoke

MYTH BUSTER

Myth: There's no need to change the oil in the high pressure oil pump reservoir when changing the crankcase oil.

Busted: False. Oil in the HPOP reservoir should be changed at the same time as the crankcase oil to avoid contaminating the new oil with the old.

BEFORE YOU INSTALL

- Before replacing the high pressure oil pump, make sure the cause of the leak is determined.
- Consider replacing the injection pressure regulator (IPR) valve when replacing the high pressure oil pump (HPOP). A failing HPOP will often cause metallic contamination of the IPR valve.



SKILL LEVEL:

Service Technician

B

or higher

TIPS

- Refer to the vehicle-specific service manual for diagnostic and replacement procedures before attempting any repair. Also, check for any vehicle manufacturer's technical service bulletins.
- Before removing the high-pressure oil pump, use an oil suction tool to remove the oil from the reservoir.
- Use the proper high-pressure line, quick disconnect tool to release the high-pressure lines from the outlet fittings at the pump.
- After the pressure has been released from the system, make sure the drive gear is fully seated on the high-pressure oil pump before installing the bolt and washer. Otherwise the drive gear may not seat properly. This can cause binding or slippage, resulting in a "no-oil-flow" condition and gear damage.
- Check the engine oil level before starting the engine. Check for leaks at the high pressure oil pump while the engine is running. Once confirmed that there are no leaks present at the HPOP, re-check the engine oil level and correct if necessary.

BEST MAINTENANCE PRACTICES

- Refer to a vehicle specific service manual for a list of systems and subassemblies that need routine maintenance.
- Modern diesel engines are highly dependent on the type and condition of oil being circulated, specifically for supply of oil to the turbocharger and high pressure fuel injection systems, if equipped. Assure the engine oil and filter is replaced at the specified service interval for each specific vehicle.
- Replace the fuel filter at the specified service interval. Some diesel engines have a primary and secondary fuel filter.
- Replace the air filter at the specified service interval. A dirty or clogged air filter can drastically alter the performance of a diesel engine.

GOT QUESTIONS ABOUT THIS PART?
CALL 888-280-8324

Monday-Friday