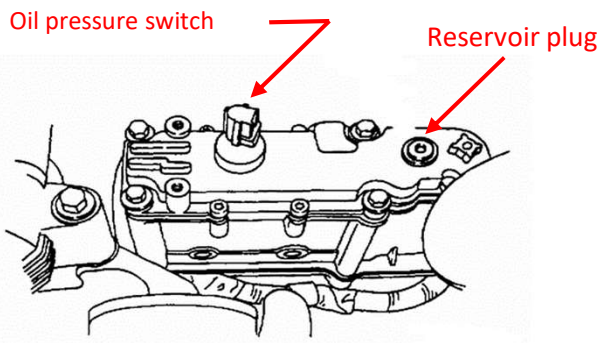


T500 INSTALLATION INSTRUCTIONS



Remove your existing high pressure oil pump – HPOP

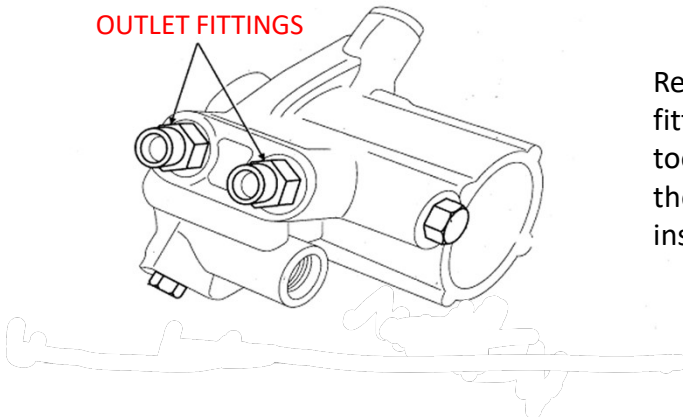
If your factory fuel bowl is present you will need to remove it in order to remove your existing HPOP. The fuel bowl is equipped with a fuel bowl drain located at the rear of the fuel bowl. Once the fuel is drained remove the rubber drain line from the back of the bowl and unplug the electrical sensor. Unscrew the fuel line sleeve nuts for the (4) fuel lines, (1) inlet, (1) return, (2) outlets.



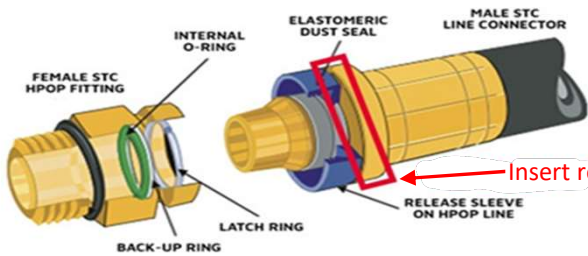
Remove the reservoir plug using a 3/16" allen wrench. Using a suction tool remove the oil stored in the reservoir approximately 5/8 of a quart. This step is not mandatory but will eliminate a mess. Disconnect the electrical connector from the oil pressure switch located on the top of the reservoir.

Remove the reservoir mounting bolts, (3) 10 mm bolts and (2) 13mm bolts. Remove the reservoir with the fuel bowl attached.

OUTLET FITTINGS



Remove the high pressure oil lines from the outlet fittings noting that they require a special "release tool". Do not unscrew the fittings from the pump as these fittings need to be sent with the pump for inspection.

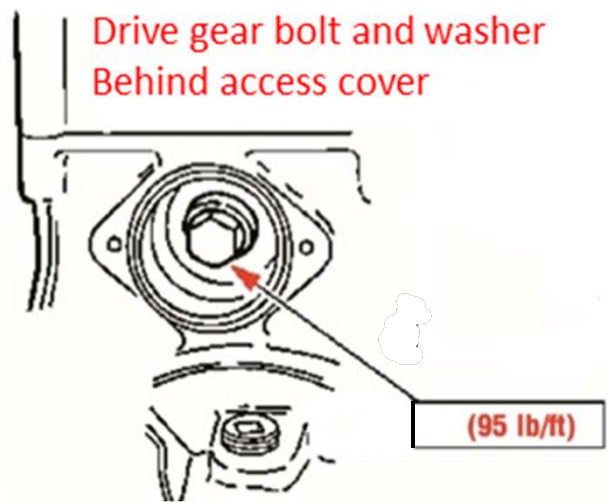


7.3 HIGH PRESSURE OIL LINE STC FITTING DIAGRAM

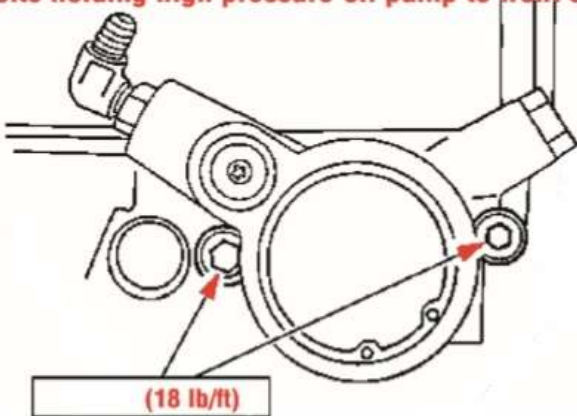


RELEASE TOOL

Using an 8mm socket remove the two bolts from the drive gear access cover. Remove the drive gear bolt (18mm) and washer from the drive gear.



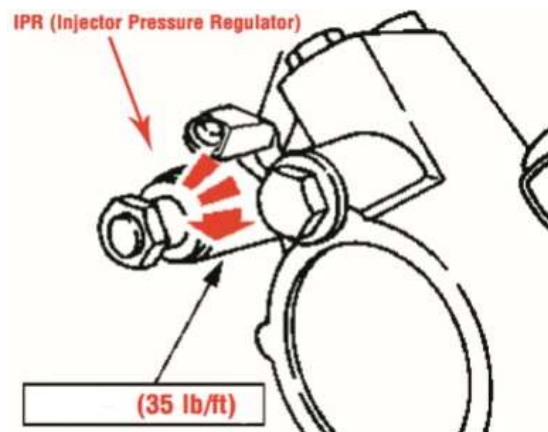
Bolts holding high pressure oil pump to front cover



Remove the two HPOP mounting bolts (10mm) and remove the pump from the front engine cover. The mounting gasket is considered to be reusable, however replacement is recommended.

Remove the (IPR) Injection Pressure Regulator prior to shipping the pump for service.

CAUTION must be take when handling the IPR valve. It must be kept clean and guarded from any dirt, grease or lint from rags. The IPR is a very precise metering device and can malfunction with just the slightest piece of debris logged in the valve.



Installation of the new T-500 HPOP

Inspect T-500 HPOP to verify there is no shipping damage from the carrier. Be sure to remove the red plug in the oil intake port located on the mounting face of the pump and the IPR valve port prior to installation.

Install the IPR (injection pressure regulator) into the T-500 pump and torque to 35 lb/ft

Place the T-500 with a new mounting gasket in the front engine cover. Pay close attention to verify the gasket aligns with the pump mounting holes and oil intake port.

Torque the HPOP mounting bolts to 18 lb/ft

Position the HPOP drive gear on the HPOP paying close attention to properly align and seat the gear on the pump. DO NOT assume the drive gear mounting bolt and washer will seat the gear on the pump. It is possible to torque the mounting bolt and not have the drive gear seated. Binding and slippage can occur. Torque to 95 lb/ft noting it may be necessary to wedge the serpentine belt to prevent engine rotation to achieve torque value.

Reinstall the HPOP drive gear access cover making note to use a RTV sealant to prevent leaks. Ford part number TA-31.

Reinstall the HPOP high pressure lines

Reinstall the reservoir and fuel bowl assembly. The reservoir gasket is considered to be reusable however it is recommended that it be changed at this time.

**** Fill the reservoir through the reservoir plug with approximately 3/4 quart of engine oil. The reservoir will only fill to approximately 3/4" from the top due to a built in drain port in the reservoir. Fill the oil rails located in the cylinder heads. On the drivers side remove the ICP sensor located farthest forward on the drivers side. If the oil rail is not full fill using a funnel. Perform the same procedure on the passenger side removing the furthest forward rail plug and filling rail if necessary.****

Start your truck and check for leaks. If no leaks are present take your vehicle for a test drive. Even though you purged the oil system of air it is still possible to have air trapped in the system and can take a small amount of time to work its way out.