

## Instruction Sheet HIGH PRESSURE OIL PUMP Hose Fitting Replacement International T444E / Ford 7.3L 1994-2003

**⚠ WARNING:** To avoid serious personal injury, possible death, or damage to the engine or vehicle, read all safety instructions in the foreword of the corresponding model year service manual.

### Identifying Parts

This high-pressure oil pump kit contains the following parts:

- Loctite® 680 Retaining Compound
- 1 or 2 complete Quick connect fitting(s)

### Description



Fig 1 Discharge Fittings

1. Discharge fittings (2)

The figure above shows (1) discharge fittings with the first three threads with Loctite® 680 Retaining Compound.

**NOTE:** These fittings are intended for on vehicle repair and do **not** include the factory check valve seats and springs. Please retain your check valve/springs to re-use with the replacement fitting and use the capsule of Loctite® 680 to be applied to only the first three threads.

### Removal

**⚠ WARNING:** To avoid serious personal injury, possible death, or damage to the engine or vehicle, make sure the transmission is in neutral, parking brake is set, and wheels are blocked before doing diagnostic or service procedures on engine or vehicle.

1. Prepare to collect engine oil from the back of the high pressure oil pump in the valley area of the engine.
2. Remove fill plug from top of reservoir tank and evacuate as much oil from the reservoir as possible using a hand vacuum pump.
3. Remove both high pressure oil hoses from the pump. Using special tool, **#8-6595** quick release tool available from DieselOrings.com (see end of instructions on how to disconnect the quick release fittings).

**NOTE:** Oil will continue to flow out of the port. Use a rag or suitable container to collect the oil.

4. Remove both discharge fittings from the pump.
5. Remove spring and check assemblies with needle nose pliers.

### Cleaning

1. Clean both fittings and end plug ports with a commercially available brake cleaning product.

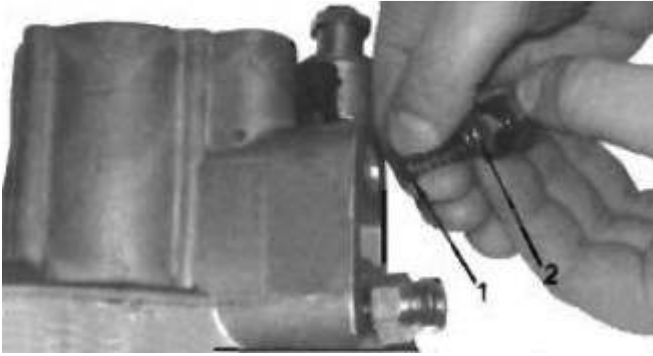
**NOTE: Important!** Be sure both ports in the pump housing are clean and dry.

### Installation

**⚠ CAUTION:** Before installing springs into both ports, make sure that the flat poppet end of the spring goes into the pump housing first. If this is not done it will cause damage to the pump.



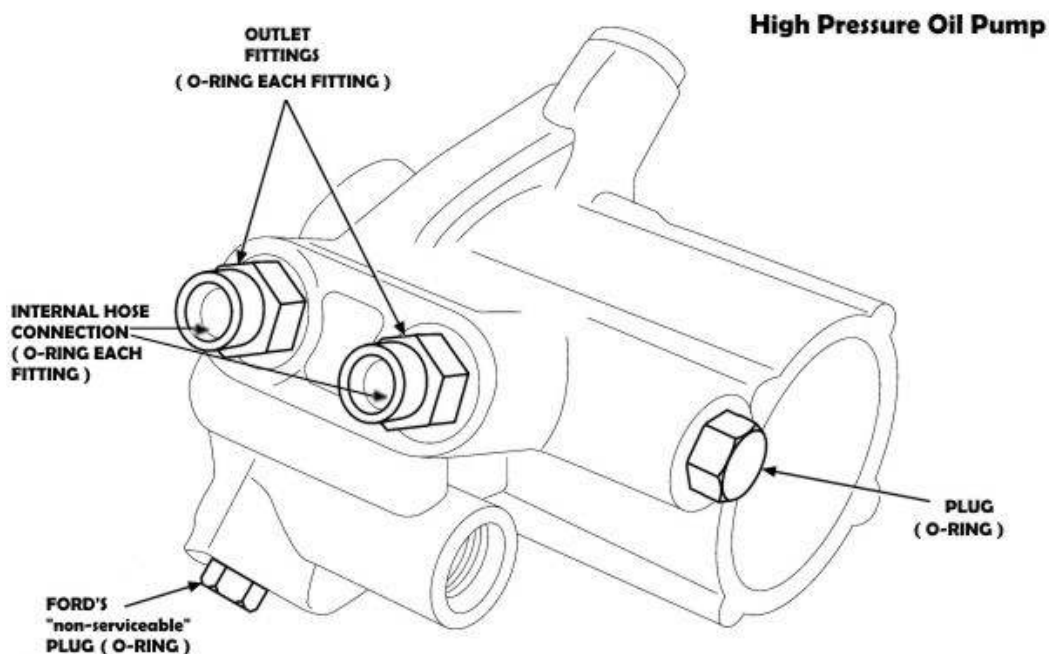
Fig 2 Spring poppet orientation



**Fig 3 Installing spring and discharge fitting**

1. Poppet end
2. Recess seat in fitting

1. Apply Loctite® 680 Retaining Compound to only the first three threads on both discharge fittings.
2. Install both discharge fittings to the pump housing and torque to 34 N-m (25 lb-ft)
3. Install both high pressure hoses.
4. Recommended cure time for the Loctite® 680 retaining compound is a **minimum of two hours** before starting the engine.
5. After allowing the Loctite to cure, start engine and check for oil leaks.
6. Check and correct the engine oil and reservoir levels as necessary. Reservoir level should be within  $\frac{3}{4}$  inch from the top.



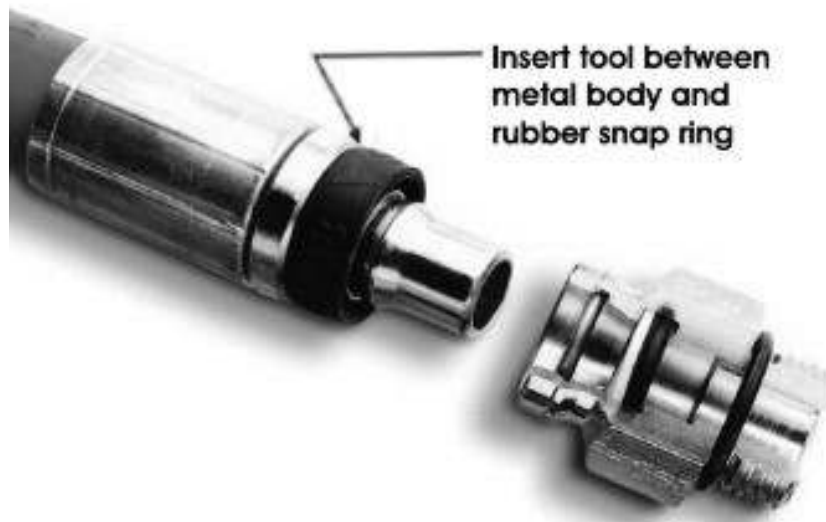
## Special Purchase on DieselOrings.com Quick Disconnect HPOP hose tool

DieselOrings.com **Quick Disconnect tool #8-6595** Our HPOP hose tool is made from high grade 7075 Aircraft aluminum alloy, the same aluminum that is used in manufacturing rock climbing equipment, hang glider airframes and even the M-16 military rifles. The aluminum is strong, has the ability to flex and return to its original shape. The tool is finished with a rich black anodized coating and will never rust.

This tool is superior to any HPOP Quick Release tool available and was engineered to hold up to the daily usage that a professional mechanic demands from a quality hand tool.



## DieselOrings.com Quick Release Tool And can be purchased at DieselOrings.com **MADE IN THE USA**



**To release the line from the fitting:**  
While firmly pushing the line straight into the fitting with one hand,  
Insert the tool behind the black release sleeve and gently pull on the line.

**To connect the line to the fitting:**  
Push the line into the fitting until you hear/feel the snap ring “grab” the line.  
Insure connection by pulling on the line.

**Note: Whenever the high pressure system is opened, air enters the system and the Vehicle needs to be driven to remove the air.**