

TM1837 - 27ZTS Excavator Remove and Install Fuel Injection Pump

Remove and Install Fuel Injection Pump

 **CAUTION:**

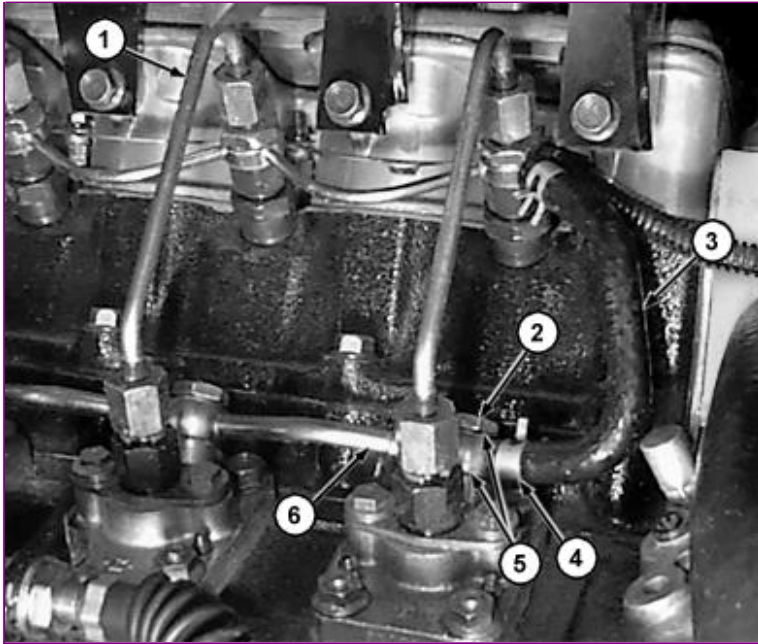


X9811-UN: High-Pressure Fluid

Escaping diesel fuel under pressure can have sufficient force to penetrate the skin, causing serious injury. Before disconnecting lines, be sure to relieve pressure. Before applying pressure to the system, be sure ALL connections are tight and lines, pipes and hoses are not damaged. Keep hands and body away from pinholes and nozzles which eject fluid under pressure. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks.

If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type of injury or gangrene may result. Doctors unfamiliar with this type of injury may call the Deere & Company Medical Department in Moline, Illinois, or other knowledgeable medical source.

Any time the fuel system has been opened up for service (lines disconnected or filters removed), it will be necessary to bleed air from the system. (See [Bleed Fuel System](#) in this group.)



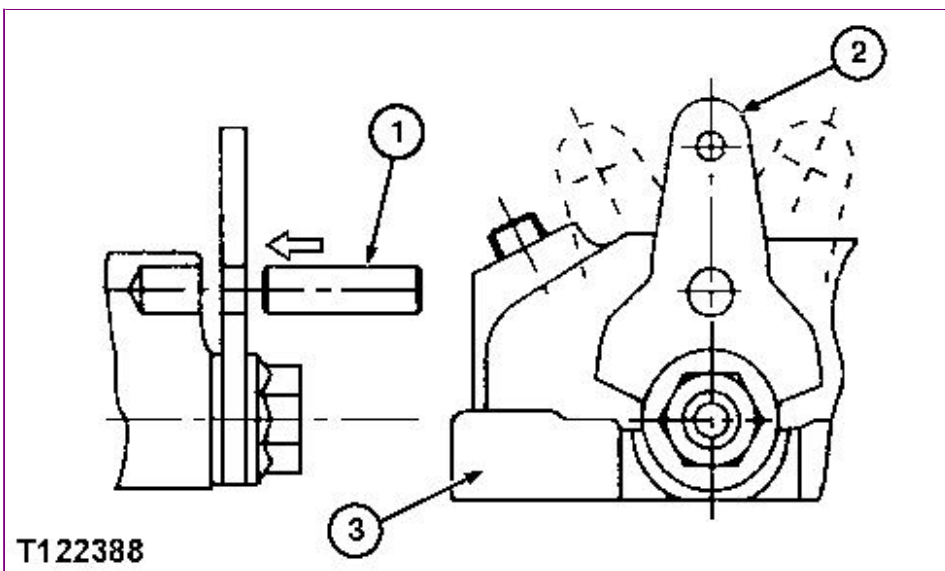
1. T123181-UN: Injection Pump Injection and Supply Lines

LEGEND:

- 1 - Injection Line
- 2 - Cap Screw (4 used)
- 3 - Hose
- 4 - Clamp
- 5 - Washer (8 used)
- 6 - Supply Line

Remove fuel injection line (1).

2. Remove clamp (4) and hose (3).
3. Remove cap screws (2) and washers (5).
4. Remove fuel supply line (6).

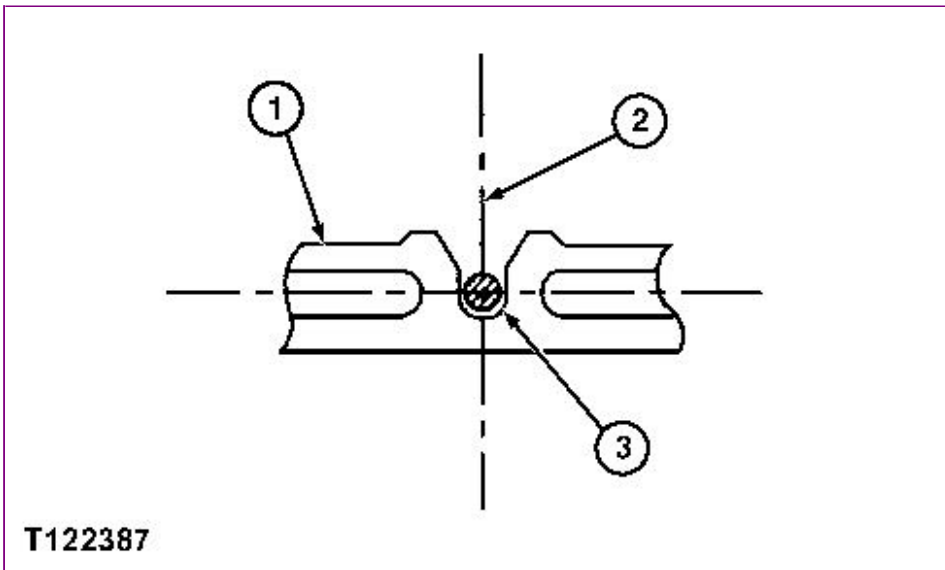


5. T122388
T122388-UN: Align Fuel Cut-Off Lever-to-Governor Cover

LEGEND:

- 1 - Pin
- 2 - Lever
- 3 - Cover

Align hole of fuel cut-off lever (2) with hole of governor cover (3) and insert pin (1) into hole.



6. T122387-UN: Center Control Link Pin Groove

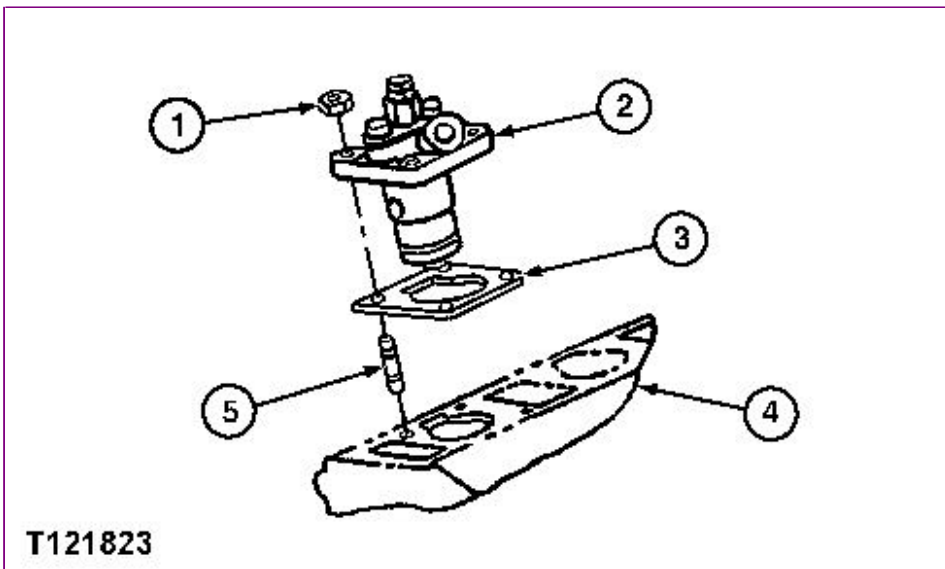
LEGEND:

- 1 - Control Link
- 2 - Injection Pump Center Position
- 3 - Pin

Check to see if pin groove of control link (1) is at center of injection pump (2).

NOTE:

Mark each pump to aid in assembly. Do not reuse shim; replace with same thickness.



7. T121823-UN: Remove and Install Injection Pump

LEGEND:

- 1 - Nut (4 used)
- 2 - Injection Pump
- 3 - Shim
- 4 - Clamp

Remove nuts (1), injection pump (2), and shim (3).

NOTE:

For injection pump repair and testing, have an authorized ADS diesel injection repair station perform the work. Unauthorized repairs made to the fuel injection pump will void warranty.

- 8. Install new shim (3) with same thickness as removed.
- 9. Install injection pump (2) making sure that rack pin is in groove of control rack before tightening injection pump.

Item	Measurement	Specification
Fuel Injection		
Pump Cap Screw	Torque	28 N·m (252 lb-ft)

- 10. Remove rack pin from fuel cut-off lever. Confirm lever moves smoothly.
- 11. Install fuel supply line, washers, cap screw and tighten.

Item	Measurement	Specification
Fuel Injection		
Fuel Supply Line Cap Screw	Torque	24 N·m (212 lb-in.)

- 12. Install hose and clamp.
- 13. Install fuel injection line and tighten nut.

Item	Measurement	Specification
Fuel Injection		
Line Nut	Torque	24 N·m (212 lb-in.)

- 14. [Bleed fuel system.](#) (See procedure in this group.)

TM1837 - 27ZTS Excavator Repair Fuel Injection Pump

Repair Fuel Injection Pump

IMPORTANT:

Do not disassemble the fuel injection pump further than necessary for installing available repair parts—not even for cleaning.

Be sure that all identification numbers are legible so that pump is set to the correct specification for its intended application.

For injection pump repair and testing, have an authorized ADS diesel injection repair station perform the work. Unauthorized repairs made to the fuel injection pumps will void warranty.

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