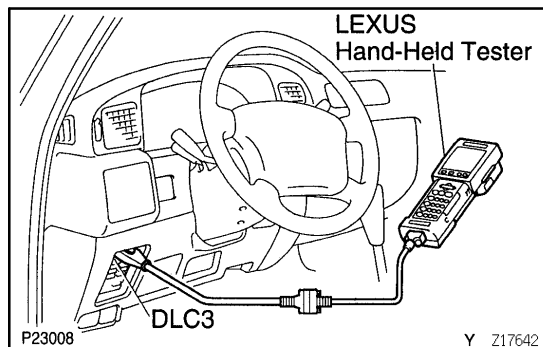




FUEL PUMP

ON-VEHICLE INSPECTION

SF1EE-02

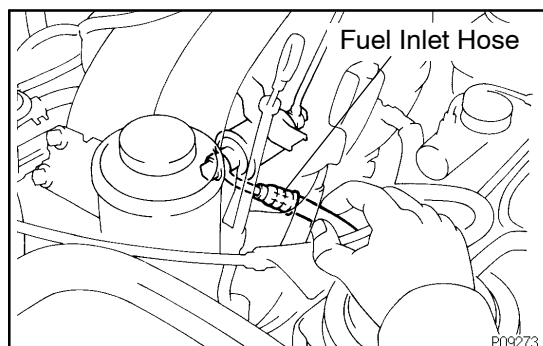
1. CHECK FUEL PUMP OPERATION

- Remove the fuse cover on the instrument panel.
- Connect the LEXUS hand-held tester to the DLC3.
- Turn the ignition switch ON and LEXUS hand-held tester main switch ON.

NOTICE:

Do not start the engine.

- Select the ACTIVE TEST mode on the LEXUS hand-held tester.
- Please refer to the LEXUS hand-held tester operator's manual for further details.
- If you have no LEXUS hand-held tester, connect the positive (+) and negative (-) leads from the battery to the fuel pump connector (See page [SF-13](#)).

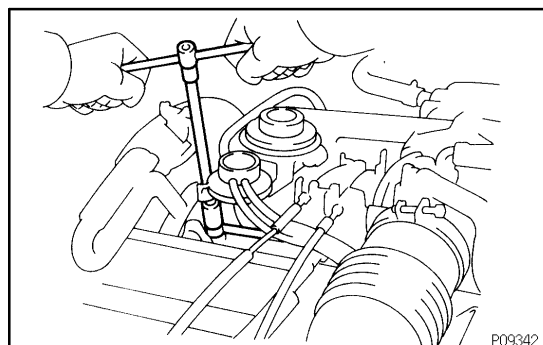


- Check that there is pressure in the fuel inlet hose from the fuel filter.

HINT:

If there is fuel pressure, you will hear the sound of fuel flowing.

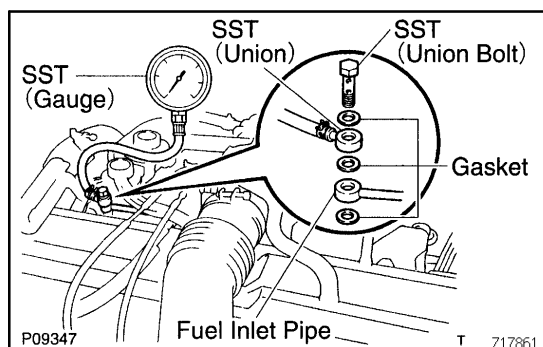
- If there is no pressure, check these parts:
 - Fusible links
 - Fuses
 - EFI main relay
 - Fuel pump
 - ECM
 - Wiring connections
 - Turn the ignition switch to LOCK.
 - Disconnect the LEXUS hand-held tester from the DLC3.
 - Reinstall the fuse cover on the instrument panel.
- #### 2. CHECK FUEL PRESSURE
- Check the battery voltage is above 12 V.
 - Disconnect the negative (-) terminal cable from the battery.



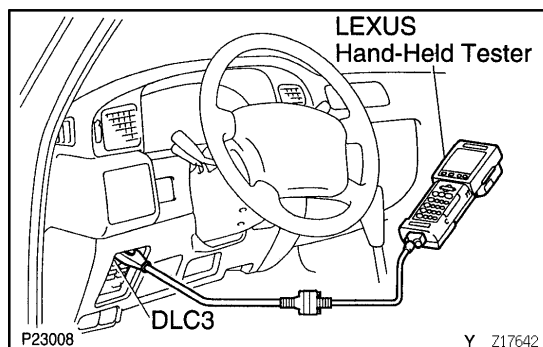
- Remove the union bolt and 2 gaskets, and disconnect the fuel inlet pipe from the delivery pipe.

CAUTION:

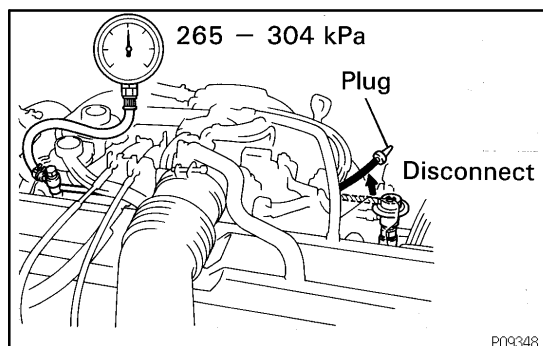
- Put a shop towel under the delivery pipe.
- Slowly loosen the union bolt.



- (d) Install the fuel inlet pipe and SST (pressure gauge) to the delivery pipe with the 3 gaskets and SST (union bolt).
SST 09268-45012
Torque: 29 N·m (300 kgf·cm, 22 ft·lbf)
- (e) Wipe off any splattered gasoline.



- (f) Connect the LEXUS hand-held tester to the DLC3.
- (g) Reconnect the negative (-) terminal cable to the battery.
- (h) Turn the ignition switch ON.



- (i) Measure the fuel pressure.
Fuel pressure:
265 - 304 kPa (2.7 - 3.1 kgf/cm², 38 - 44 psi)
If pressure is high, replace the fuel pressure regulator.
- (j) If pressure is low, check these parts:
- Fuel hoses and connections
 - Fuel pump
 - Fuel filter
 - Fuel pressure regulator
- (k) Remove the LEXUS hand-held tester from the DLC3.
- (l) Reinstall the fuse cover on the instrument panel.
- (m) Start the engine.
- (n) Disconnect the vacuum sensing hose from the fuel pressure regulator, and plug the hose end.
- (o) Measure the fuel pressure at idle.
Fuel pressure:
265 - 304 kPa (2.7 - 3.1 kgf/cm², 38 - 44 psi)
- (p) Reconnect the vacuum sensing hose to the fuel pressure regulator.
- (q) Measure the fuel pressure at idle.
Fuel pressure:
206 - 255 kPa (2.1 - 2.6 kgf/cm², 31 - 37 psi)
If pressure is not as specified, check the vacuum sensing hose and fuel pressure regulator.
- (r) Stop the engine.

- (s) Check that the fuel pressure remains as specified for 5 minutes after the engine has stopped.

Fuel pressure: 147 kPa (1.5 kgf/cm², 21 psi) or more

If pressure is not as specified, check the fuel pump, pressure regulator and/or injectors.

- (t) After checking fuel pressure, disconnect the negative (–) terminal cable from the battery and carefully remove the SST to prevent gasoline from splashing.

SST 09268–45012

- (u) Reconnect the fuel inlet pipe to the delivery pipe with 2 new gaskets and the union bolt.

Torque: 29 N·m (300 kgf·cm, 22 ft·lbf)

- (v) Reconnect the negative (–) terminal cable to the battery.
- (w) Check for fuel leakage (See page [SF-1](#)).