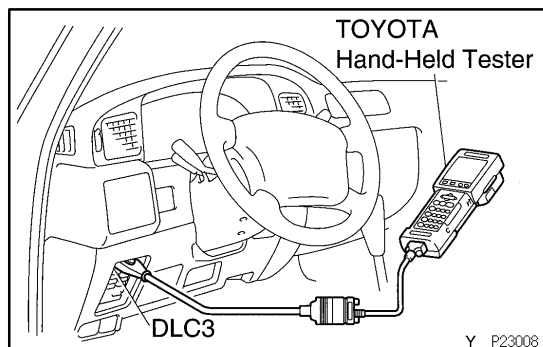




FUEL PUMP

ON-VEHICLE INSPECTION

SF1EE-04

1. CHECK FUEL PUMP OPERATION

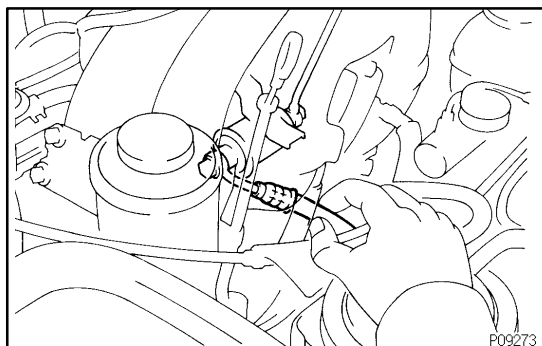
- (a) Remove the fuse cover on the instrument panel.
- (b) Connect the TOYOTA hand-held tester to the DLC3.
- (c) Turn the ignition switch ON and TOYOTA hand-held tester main switch ON.

NOTICE:

Do not start the engine.

- (d) Select the ACTIVE TEST mode on the TOYOTA hand-held tester.
- (e) Please refer to the TOYOTA hand-held tester operator's manual for further details.

If you have no TOYOTA hand-held tester, connect the positive (+) and negative (-) leads from the battery to the fuel pump connector (See page [SF-14](#)).



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

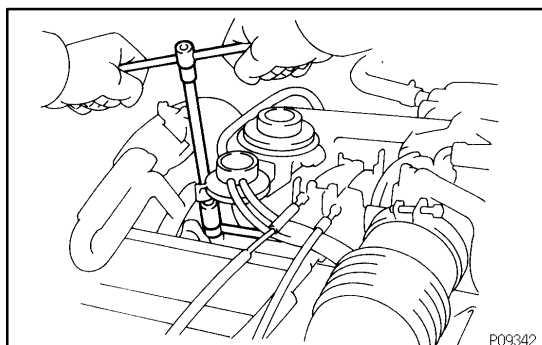
HINT:

If there is fuel pressure, you will hear the sound of fuel flowing. If there is no pressure, check the fusible link, fuses, EFI main relay, fuel pump, ECM and wiring connections.

- (g) Turn the ignition switch to LOCK.
- (h) Disconnect the TOYOTA hand-held tester from the DLC3.
- (i) Reinstall the fuse cover on the instrument panel.

2. CHECK FUEL PRESSURE

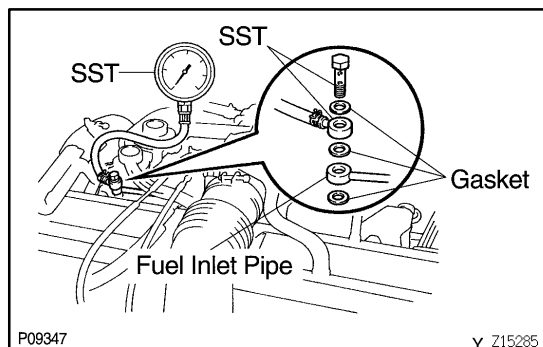
- (a) Check the battery voltage is above 12 V.
- (b) Disconnect the negative (-) terminal cable from the battery.



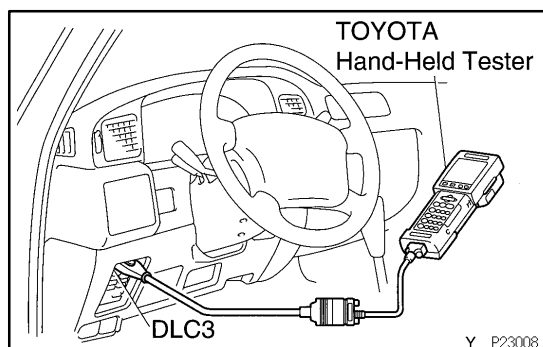
- (c) Remove the union bolt and 2 gaskets, and disconnect the fuel inlet pipe from the delivery pipe.

CAUTION:

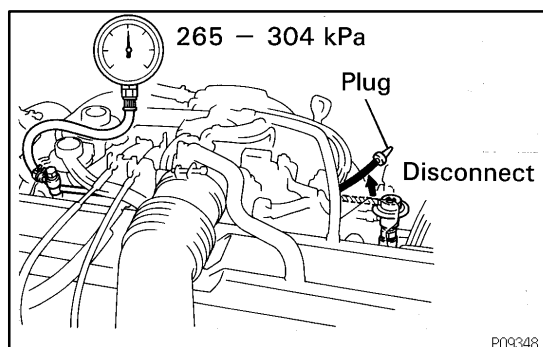
- Put a shop towel under the delivery pipe.
- Slowly loosen the union bolt.



- (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 TOYOTA hand-held tester to the DLC3 (See step 1).
- (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.
If pressure is low, check these parts:
- Fuel hoses and connections
 - Fuel pump
 - Fuel filter
 - Fuel pressure regulator
- (j) Remove the TOYOTA hand-held tester from the DLC3.
- (k) Reinstall the fuse cover on the instrument panel.
- (l) Start the engine.
- (m) Disconnect the vacuum sensing hose from the fuel pressure regulator, and plug the hose end.
- (n) Measure the fuel pressure at idle.
Fuel pressure:
265 - 304 kPa (2.7 - 3.1 kgf/cm², 38 - 44 psi)
- (o) Reconnect the vacuum sensing hose to the fuel pressure regulator.
- (p) 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.
- (q) Stop the engine.
- (r) 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.

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