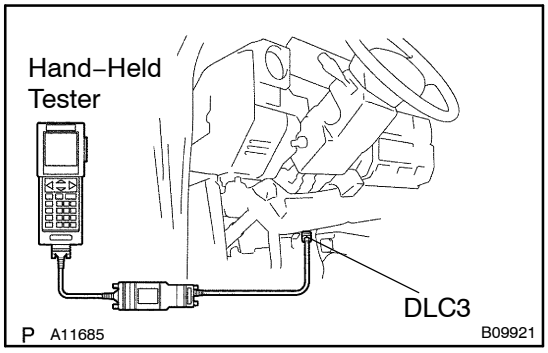


FUEL PUMP

ON–VEHICLE INSPECTION

FI0QA–01

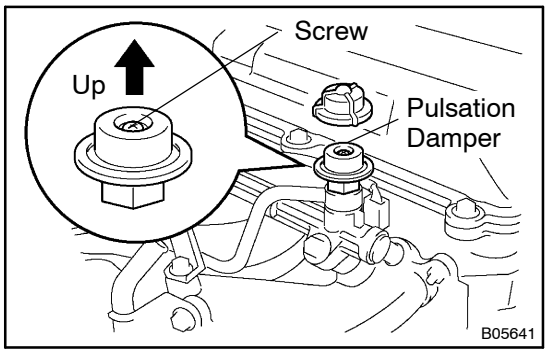
1. CHECK FUEL PUMP OPERATION

(a) Connect a hand–held tester to the DLC3.
  (1) Connect a hand–held tester to the DLC3.
  (2) Turn the ignition switch ON, and push the hand–held tester main switch ON.

NOTICE:
Do not start the engine.

  (3) Select the ACTIVE TEST mode on the hand–held tester.
  (4) Please refer to the hand–held tester operator's manual for further details.

If you have no hand–held tester, connect the positive (+) and negative (–) leads from the battery to the fuel pump connector (See step 3).



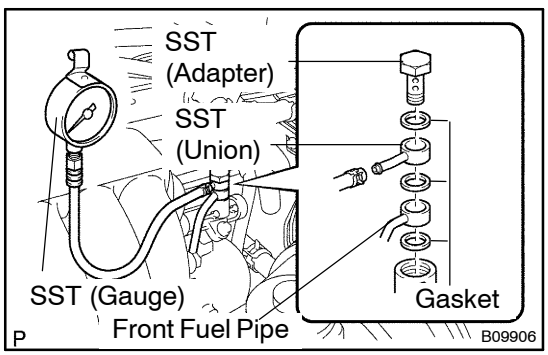
(b) Check that the pulsation damper screw rises up when the fuel pump operates.

If operation is not as specified, check the fusible link, fuses, EFI main relay, fuel pump, engine ECU and wiring connections.

(c) Turn the ignition switch OFF.
(d) Disconnect the hand–held tester from the DLC3.

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 fuel pressure pulsation damper (See page FI–18).



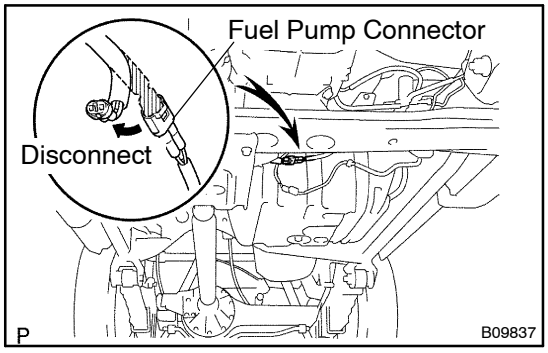
(d) Install the front fuel pipe and SST (pressure gauge) to the delivery pipe with 3 lower gaskets and SST (adapter).
SST 09268–45014 (09268–41190, 90405–06167)
Torque: 35 N·m (350 kgf·cm, 26 ft·lbf)
(e) Wipe off any splattered gasoline.
(f) Reconnect the negative (–) terminal cable to the battery.
(g) Connect a hand–held tester to the DLC3.(See step 1)
(h) Measure the fuel pressure.
Fuel pressure:
265 – 304 kPa (2.7 – 3.1 kgf/cm^2, 38 – 44 psi)

If pressure is high, replace the fuel pressure regulator.
If pressure is low, check the fuel hoses, fuel hose connections, fuel pump, fuel filter and fuel pressure regulator.

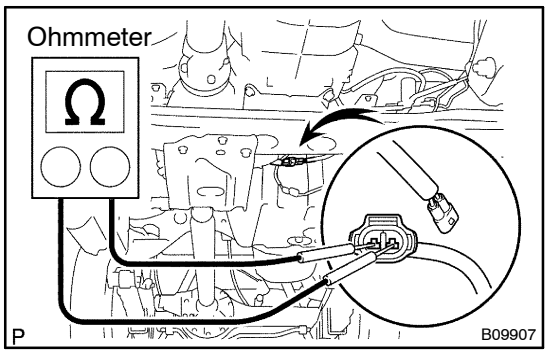
(i) Disconnect the hand–held tester from the DLC3.
(j) Start the engine.
(k) Measure the fuel pressure at idle.
Fuel pressure:
265 – 304 kPa (2.7 – 3.1 kgf/cm², 38 – 44 psi)
(l) Stop the engine.
(m) Check that the fuel pressure remains as specified for 5 minutes after the engine has stopped.
Fuel pressure: 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.

(n) After checking fuel pressure, disconnect the negative (–) terminal cable from the battery and carefully remove the SST to prevent gasoline from splashing.
SST 09268–45014
(o) Reinstall the fuel pressure pulsation damper (See page FI–23).
(p) Reconnect the negative (–) terminal cable to the battery.
(q) Check for fuel leaks (See page FI–1).

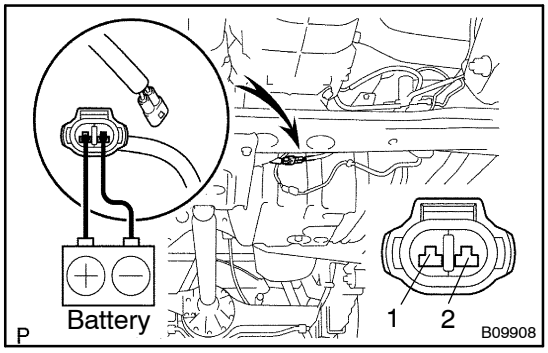


3. INSPECT FUEL PUMP (MAIN)
(a) Disconnect the fuel pump connector.



(b) Using an ohmmeter, measure the resistance between the terminals.
Resistance: 0.2 – 3.0 Ω at 20°C (68°F)

If the resistance is not as specified, replace the fuel pump.



(c) Inspect the fuel pump operation.
Connect the positive (+) lead from the battery to terminal 1 of the connector, and the negative (–) lead to terminal 2. Check that the fuel pump operates.

NOTICE:

- **These tests must be done quickly (within 10 seconds) to prevent the coil from burning out.**
- **Keep the fuel pump as far away from the battery as possible.**
- **Always do the switching at the battery side.**

If operation is not as specified, replace the fuel pump.

(d) Reconnect the fuel pump connector.