

## FUEL PUMP ON-VEHICLE INSPECTION

FI0XS-01

### 1. CHECK FUEL PUMP OPERATION

- Connect a hand-held tester to the DLC3.
- Turn the ignition switch ON, and push the hand-held tester main switch ON.

#### NOTICE:

**Do not start the engine.**

- Select the active test mode on the hand-held tester.
- 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)
- Check that there is pressure in the fuel inlet hose from the fuel filter.

#### HINT:

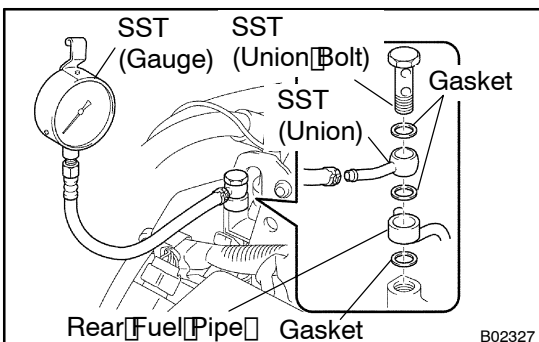
If there is fuel pressure, you will hear the sound of fuel flowing. If there is no pressure, check these parts:

- Fusible link
- Fuses
- EFI main relay
- Fuel pump
- Engine ECU
- Wiring connections

- Turn the ignition switch OFF.
- Disconnect the hand-held tester from the DLC3.

### 2. CHECK FUEL PRESSURE

- Check the battery positive voltage is above 12V.
- Disconnect the negative (-) terminal cable from the battery.
- Remove the fuel pressure pulsation damper from the RH delivery pipe. (See page FI-28)



- Install the rear fuel pipe and SST (pressure gauge) to the delivery pipe with 3 lower gaskets and SST (union bolt). SST 09268-45014 (09268-41190, 90405-06167)  
**Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)**
- Wipe off any splattered gasoline.
- Reconnect the negative (-) terminal cable to the battery.
- Connect a hand-held tester to the DLC3.  
(See step 1 in check fuel pump operation (a) to (e))

(h) Measure the fuel pressure.

**Fuel pressure:**

**304 – 343 kPa (3.1 – 3.5 kgf/cm<sup>2</sup> 44 – 50 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

(i) Disconnect the hand-held tester from the DLC3.

(j) Start the engine.

(k) Measure the fuel pressure at idle.

**Fuel pressure:**

**304 – 343 kPa (3.1 – 3.5 kgf/cm<sup>2</sup> 44 – 50 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/cm<sup>2</sup> 21 psi) or more**

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

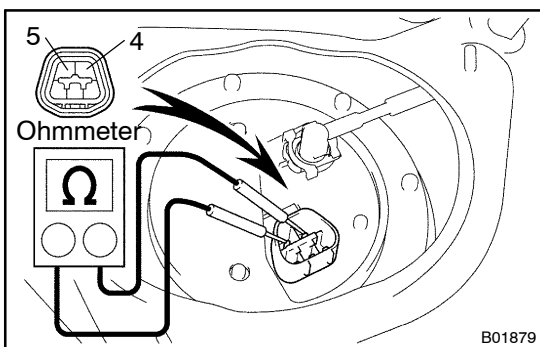
(n) After checking fuel pressure, disconnect the negative (-) terminal cable from the battery and carefully remove the SST to prevent gasoline from splashing.

SST 09268-45014

(o) Reinstall the fuel pressure pulsation damper to the RH delivery pipe. (See page FI-29)

(p) Reconnect the negative (-) terminal cable to the battery.

(q) Check for fuel leaks.



### 3. INSPECT FUEL PUMP

(a) Remove the rear seat cushion.

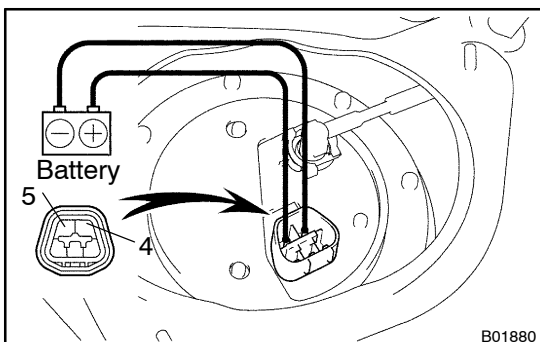
(b) Remove the 3 cap nuts and floor service hole cover.

(c) Disconnect the fuel pump & sender gauge connector.

(d) Using an ohmmeter, measure the resistance between terminals 4 and 5.

**Resistance: 0.2 – 3.0 Ω at 20°C (68°F)**

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



(e) Inspect the fuel pump operation.

Connect the positive (+) lead from the battery to terminal 4 of the connector, and the negative (-) lead to terminal 5. Check that the fuel pump operates.

**NOTICE:**

- **These tests must be done quickly (within 10 seconds) to prevent the coil 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.

- (f) Reconnect the fuel pump & sender gauge connector.
- (g) Reinstall the floor service hole cover with the cap nuts.
- (h) Reinstall the rear seat cushion.

