

## FUEL PUMP ON-VEHICLE INSPECTION

F10IF-02

### 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)
- Disconnect the fuel return hose from the clamp on the V-bank cover.
- Remove the 2 bolts, nuts and V-bank cover.

- Check that the pulsation damper screw rises up when the fuel pump operates.

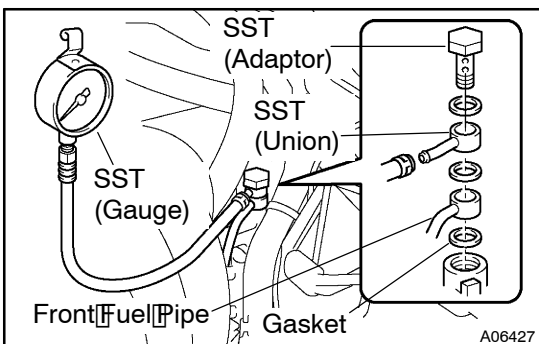
If operation is not as specified, check these parts:

- 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 12 V.
- Disconnect the negative (-) terminal cable from the battery.
- Remove the front fuel pipe from the LH delivery pipe.  
(See page FI-23)



- Install the front fuel pipe and SST (pressure gauge) to the delivery pipe with 3 lower gaskets and SST (adaptor).  
SST 09268-45012 (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))
- Measure the fuel pressure.

**Fuel pressure:****265 – 304 kPa (2.7 – 3.1 kgf/cm<sup>2</sup> 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

- (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/cm<sup>2</sup> 38 – 44 psi)**

- (l) ☐ Measure the fuel pressure at idle.

**Fuel pressure:****196 – 235 kPa (2.0 – 2.4 kgf/cm<sup>2</sup> 28 – 34 psi)**

- (m) ☐ Stop the engine.
- (n) ☐ 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.

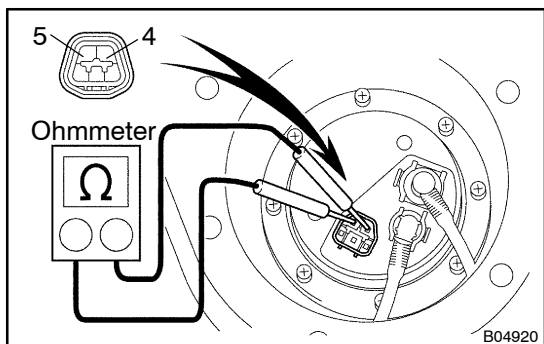
- (o) ☐ After checking fuel pressure, disconnect the negative (–) terminal cable from the battery and carefully remove the SST to prevent gasoline from splashing.

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- (p) ☐ Reinstall the front fuel pipe to the L.H. delivery pipe.  
(See page FI-28)
- (q) ☐ Reconnect the negative (–) terminal cable to the battery.
- (r) ☐ Check for fuel leaks. (See page FI-1)

**3. INSPECT FUEL PUMP**

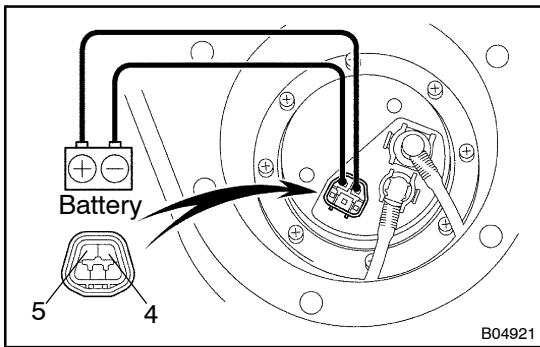
- (a) ☐ Remove the No.1 rear seats.
- (b) ☐ Remove the 2 rear door scuff plates, step plates and rear seat lock covers.
- (c) ☐ Pull off the front and rear floor carpets.
- (d) ☐ Remove the 2 screws and rear floor service hole cover.
- (e) ☐ Disconnect the fuel pump & sender gauge connector.



- (f) ☐ 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 and/or lead wire.



- (g) 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 and/or lead wire.

- (h) Reconnect the fuel pump & sender gauge connector.
- (i) Reinstall the rear floor service hole cover with the 2 screws.
- (j) Reinstall the front and rear floor carpets.
- (k) Remove the 2 rear door scuff plates, step plates and rear seat lock covers.
- (l) Reinstall the No.1 rear seats.