

FUEL PUMP

ON-VEHICLE INSPECTION

SF0WR-03

1. CHECK FUEL PUMP OPERATION

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

NOTICE:

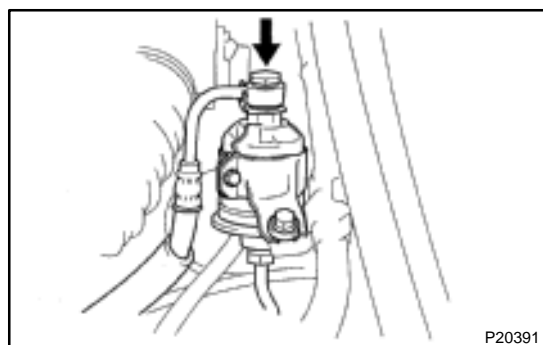
Do not start the engine.

- Select the active test mode on the TOYOTA hand-held tester.
- 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 step 6)
- 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
- H-Fuses
- Fuses
- EFI main relay
- Circuit opening relay
- Fuel pump
- ECM
- Wiring connections

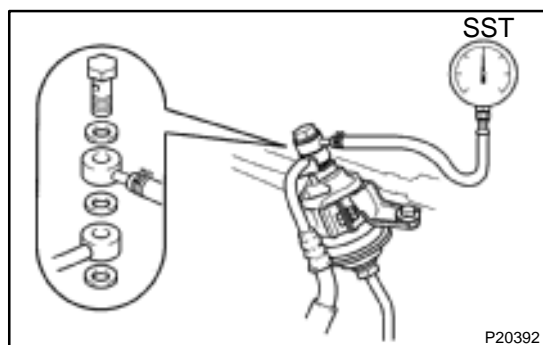


2. CHECK FUEL PRESSURE

- Check the battery positive voltage is above 11 V.
- Disconnect the negative (–) terminal cable from the battery.
- Remove the union bolt and 2 gaskets, and disconnect the fuel inlet hose from the fuel filter outlet.

CAUTION:

Put a shop towel under the fuel filter. Slowly loosen the union bolt.



- Install the fuel inlet hose and SST (pressure gauge) to the fuel filter outlet with the 3 gaskets and union bolt.
SST 09268–45012
Torque: 29.5 N·m (300 kgf·cm, 22 ft·lbf)
- Wipe off any splattered gasoline.
- Reconnect the negative (–) terminal cable to the battery.
- Connect the TOYOTA hand-held tester to the DLC3.
(See step 1 check fuel pump operation (a) to (f))

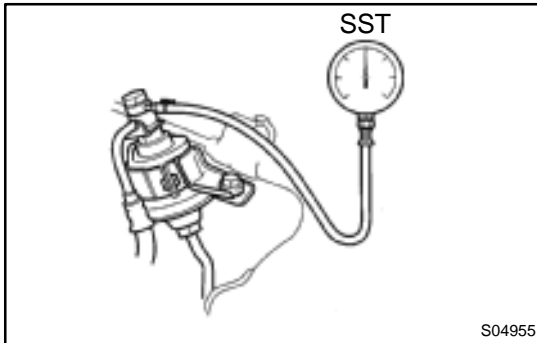
- (h) Turn the ignition switch ON.
- (i) Measure the fuel pressure.

Fuel pressure:**301 – 347 kPa****(3.1 – 3.5 kgf/cm², 44 – 50 psi)**

If pressure is high, replace the fuel pressure regulator.

If pressure is low, check these parts:

- Fuel hoses and connection
- Fuel pump
- Fuel filter
- Fuel pressure regulator



- (j) Remove the TOYOTA hand-held tester from the DLC3.
- (k) Reinstall the fuse cover on instrument panel.
- (l) Start the engine.
- (m) Measure the fuel pressure at idle.

Fuel pressure:**301 – 347 kPa****(3.1 – 3.5 kgf/cm², 44 – 50 psi)**

- (n) Stop the engine.
- (o) 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 injector.

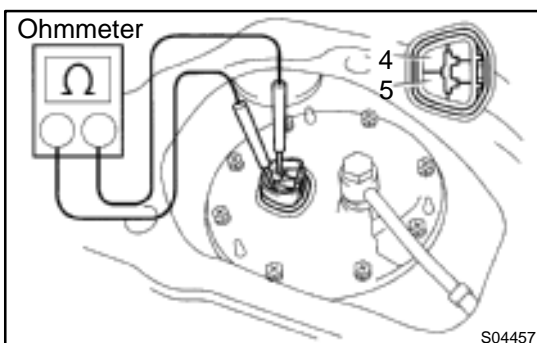
- (p) After checking fuel pressure, disconnect the negative (–) terminal cable from the battery and carefully remove the SST to prevent gasoline from splashing.

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- (q) Connect the fuel inlet hose to the fuel filter with 2 new gaskets and the union bolt.

Torque: 29.5 N·m (300 kgf·cm, 22 ft·lbf)

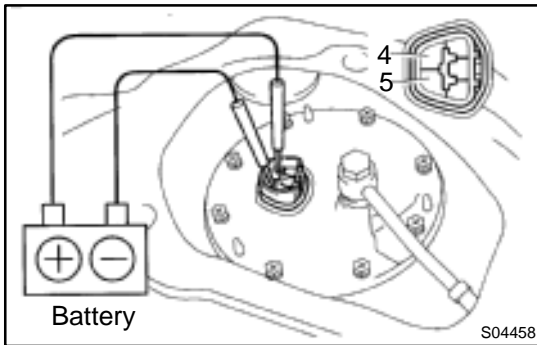
- (r) Check for fuel leakage. (See fuel system in precaution)

3. REMOVE REAR SEAT CUSHION**4. DISCONNECT FUEL PUMP AND SENDER GAUGE CONNECTOR****5. INSPECT FUEL PUMP RESISTANCE**

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.

**6. INSPECT 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 performed quickly (within 10 seconds) to prevent the coil from burning out.**
- **Keep the fuel pump as far away from the battery as possible.**
- **Always perform switching at the battery side.**

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

7. RECONNECT FUEL PUMP AND SENDER GAUGE CONNECTOR**8. REINSTALL REAR SEAT CUSHION**