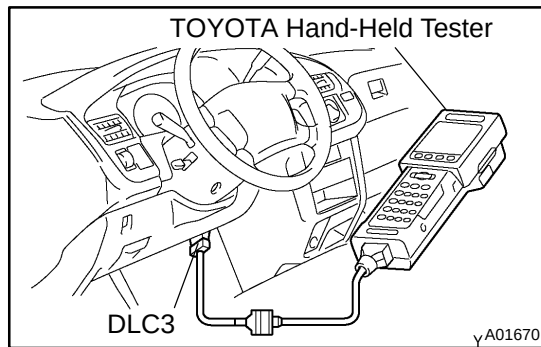




FUEL PUMP

ON-VEHICLE INSPECTION

SF1M6-01

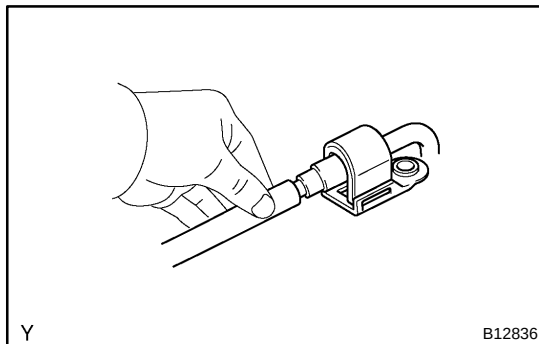
1. CHECK FUEL PUMP OPERATION

- Connect a 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 7).



- Check that there is pressure in the fuel inlet hose from the fuel pipe.

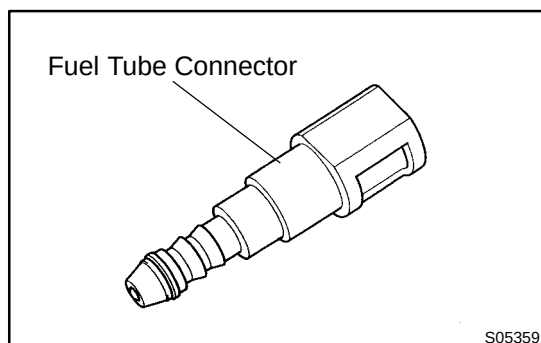
HINT:

If there is fuel pressure, you will hear the sound of fuel flowing.

If there is no pressure, check these parts:

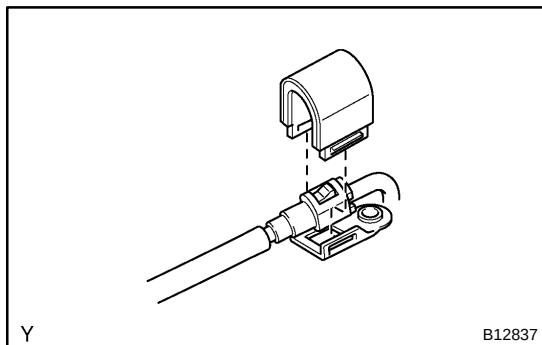
- Fusible link
- Fuses
- EFI main relay
- Fuel pump
- ECM
- Wiring connections

- Turn the ignition switch to LOCK.
- Disconnect the TOYOTA hand-held tester from the DLC3.

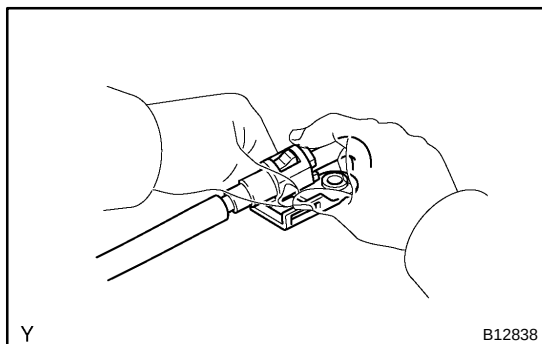


2. CHECK FUEL PRESSURE

- Check the battery positive voltage is above 12 V.
- Disconnect the negative (-) terminal cable from the battery.
- Purchase the new No.1 fuel pipe and take out the fuel tube connector from its pipe.
Part No. 23801-20070



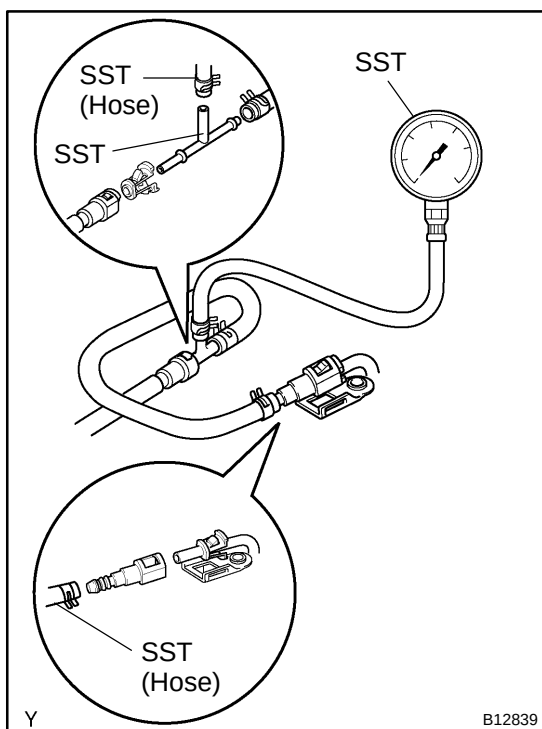
- (d) Remove the fuel hose clamp.



- (e) Disconnect the No.1 fuel pipe (fuel tube connector) from the fuel pipe.

CAUTION:

- Perform disconnecting operations of the fuel tube connector (quick type) after observing the precautions (See page [SF-1](#)).
- As there is retained pressure in the fuel pipe line, prevent it from splashing inside the engine compartment.



- (f) Install SST (pressure gauge) as shown in the illustration by using SST and fuel tube connector.

SST 09268-41047, 09268-45014

- (g) Wipe off any splattered gasoline.
 (h) Reconnect the TOYOTA hand-held tester to the DLC3 (See step 1).
 (i) Reconnect the negative (-) terminal cable to the battery.
 (j) 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 connections
- Fuel pump
- Fuel filter
- Fuel pressure regulator

- (k) Disconnect the TOYOTA hand-held tester from the DLC3.

- (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.

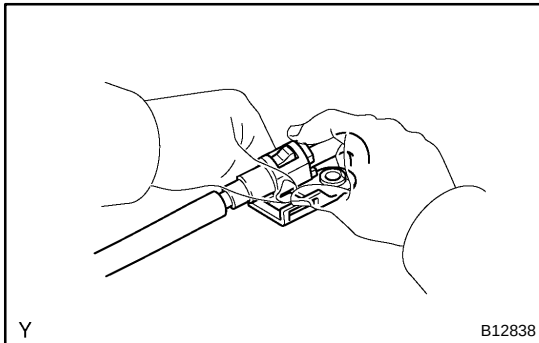
Fuel pressure:

147 kPa (1.5 kgf/cm², 21 psi) or more

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

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

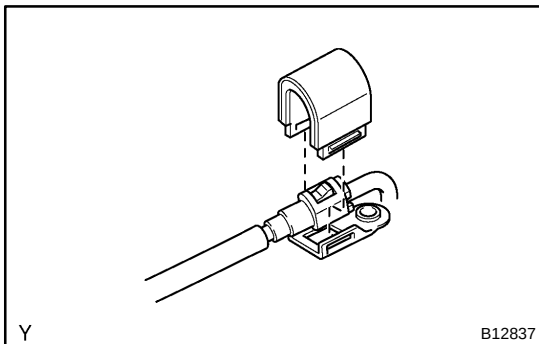
SST 09268-41047, 09268-45014



- (q) Reconnect the No.1 fuel pipe (fuel tube connector).

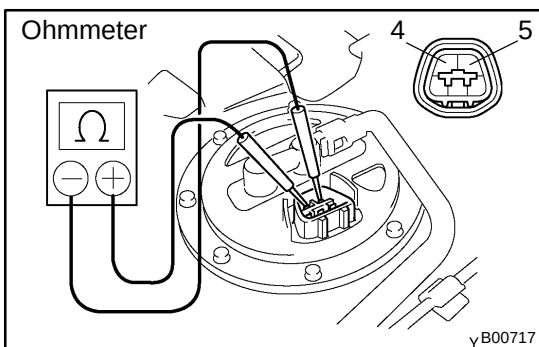
CAUTION:

Perform connecting operations of the tube connector (quick type) after observing the precautions (See page [SF-1](#)).



- (r) Surely install the hose clamp to the fuel filter with "click" sound.
- (s) After installing the clamp, check that the clamp is fixed by pulling up to the clamp.
- (t) Reconnect the negative (-) terminal cable to the battery.
- (u) Check for fuel leaks.

3. DISCONNECT FUEL PUMP & SENDER GAUGE CONNECTOR

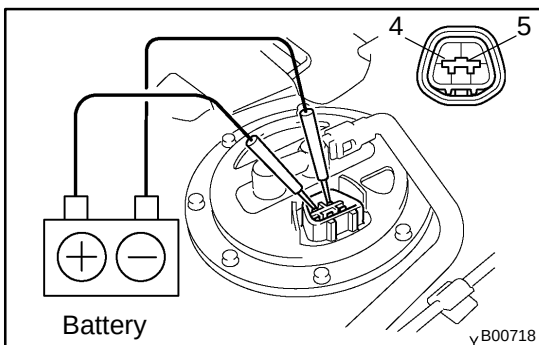


4. INSPECT FUEL PUMP RESISTANCE

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.



5. 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 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 or lead wire.

6. RECONNECT FUEL PUMP & SENDER GAUGE CONNECTOR