

FUEL PUMP

ON-VEHICLE INSPECTION

SF12Y-06

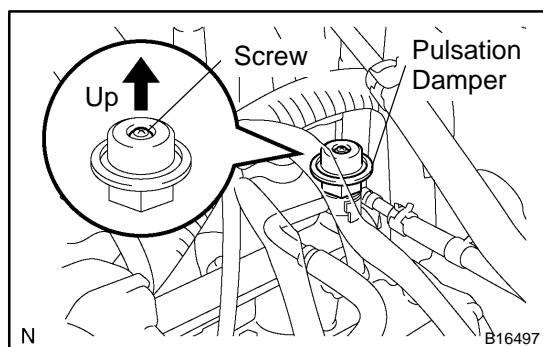
1. CHECK FUEL PUMP OPERATION

- Connect a hand-held tester to the Controller Area Network Vehicle Interface Module (CAN VIM). Then connect the CAN VIM to the Data Link Connector 3 (DLC3).
- Turn the ignition switch ON, and push the hand-held tester main switch ON.

NOTICE:

Do not start the engine.

- Enter the following menus: DIAGNOSIS / ENHANCED OBD II / ACTIVE TEST / FUEL PUMP / SPD.
- Please refer to the hand-held tester operator's manual for further details.



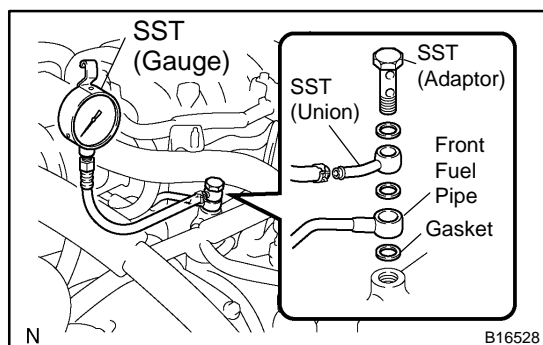
- Check that the pulsation damper screw rises up when the fuel pump operates.

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

- Turn the ignition switch OFF.
- Disconnect the hand-held tester and CAN VIM 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 [SF-27](#)).



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

265 – 304 kPa (2.7 – 3.1 kgf/cm², 38 – 44 psi)

If pressure is high, replace the fuel pressure regulator.

If pressure is low, check the fuel hoses and 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 front fuel pipe to the LH delivery pipe. (see page [SF-31](#))

3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

4. INSPECT FOR FUEL LEAKS (See page [SF-1](#))