

1GR-FE FUEL FUEL SYSTEM ON-VEHICLE INSPECTION

PROCEDURE

1.CHECK FUEL PUMP OPERATION AND FOR FUEL LEAK

- a. Connect the GTS to the DLC3.
- b. Turn the ignition switch to ON.
NOTICE:
Do not start the engine.
- c. Turn the GTS on.
- d. Enter the following menus: Powertrain / Engine and ECT / Active Test / Activate the Fuel Pump Speed Control.

Powertrain > Engine and ECT > Active Test

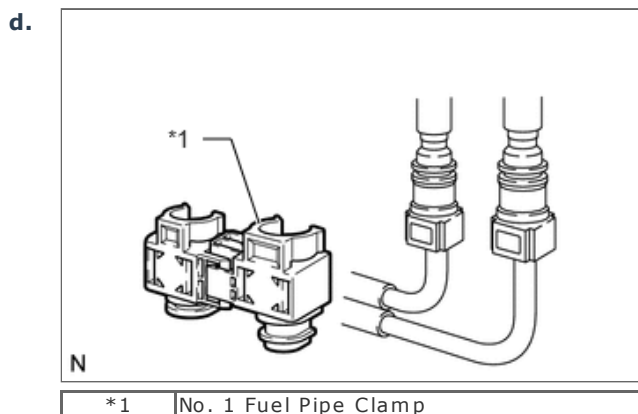
Tester Display
Activate the Fuel Pump Speed Control

Execute

- e. Check the fuel pump operation.
 - i. Check for pressure in the fuel inlet tube from the fuel line. Check that the sound of fuel flowing in the fuel tank can be heard.
If there is no sound, check the fuel pump, ECM and power source.
- f. Check for fuel leaks.
 - i. Check that there are no fuel leaks after performing maintenance anywhere on the system.
If there are fuel leaks, repair or replace parts as necessary.

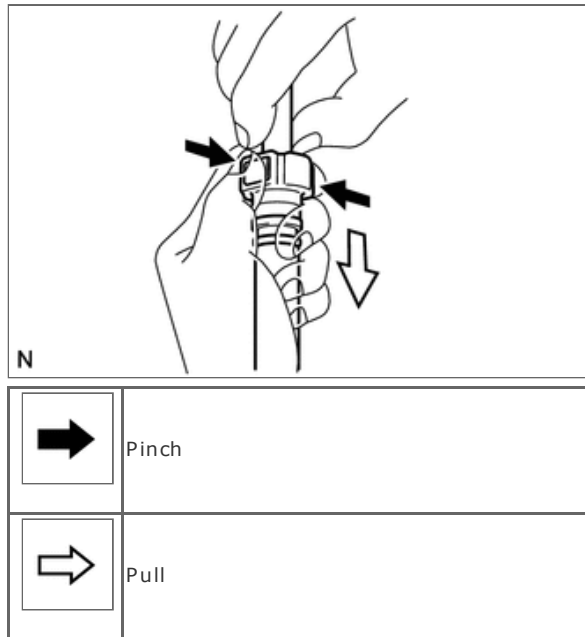
2.CHECK FUEL PRESSURE

- a. Check that the battery voltage is 11 to 14 V.
- b. Discharge the fuel system pressure.
Click here [Engine / Hybrid System>1GR-FE FUEL>FUEL SYSTEM>PRECAUTION](#)
- c. Disconnect the cable from the negative (-) battery terminal.



Remove the No. 1 fuel pipe clamp from the fuel tube connector.

e.

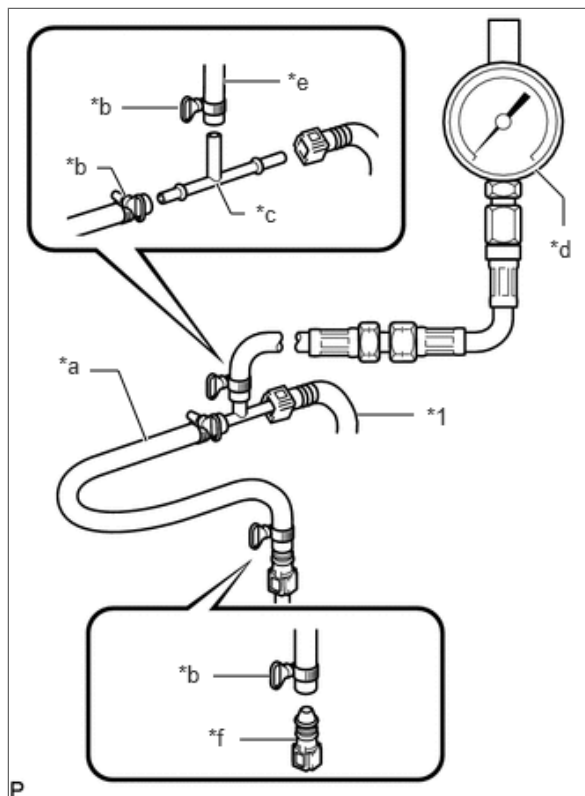


Pinch and pull the fuel inlet hose (fuel tube connector) to disconnect it.

CAUTION:

- Always read the precautions before disconnecting the fuel tube connector.
Click here [Engine / Hybrid System>1GR-FE FUEL>FUEL SYSTEM>PRECAUTION](#)
- The fuel tube may spray fuel as a result of remaining pressure. Do not allow fuel to be sprayed in the engine compartment.

f.



*1	Fuel Tube
*a	SST (Hose)
*b	SST (Hose Band)
*c	SST (T Joint)
*d	SST (Pressure Gauge)
*e	SST (Hose Joint)
*f	SST (Fuel Tube Connector)

Install SST (pressure gauge) as shown in the illustration.

SST

09268-45101 (09268-41250, 09268-41260, 09268-41280, 09268-41500, 09268-41700, 95336-08070)

- g.** Wipe off any gasoline.
- h.** Reconnect the cable to the negative (-) battery terminal.
- i.** Operate the fuel pump.
 - i.** Connect the GTS to the DLC3.
 - ii.** Turn the ignition switch to ON.

NOTICE:

Do not start the engine.

- iii.** Turn the GTS on.
- iv.** Enter the following menus: Powertrain / Engine and ECT / Active Test / Activate the Fuel Pump Speed Control / ON.

Powertrain > Engine and ECT > Active Test

Tester Display
Activate the Fuel Pump Speed Control

Execute

- j.** Measure the fuel pressure.

Standard fuel pressure:

281 to 287 kPa (2.9 to 2.9 kgf/cm², 41 to 42 psi)

If the pressure is higher than the specification, replace the fuel pressure regulator assembly.

If the pressure is below the specification, check the fuel hoses and connections, fuel pump, fuel filter and fuel pressure regulator assembly.

- k.** Start the engine.
- l.** Measure the fuel pressure.

Standard fuel pressure:

281 to 287 kPa (2.9 to 2.9 kgf/cm², 41 to 42 psi)

If the pressure is not as specified, check the fuel pump, fuel pressure regulator assembly and fuel injector assemblies.

- m.** Stop the engine.
- n.** Check that the fuel pressure remains as specified for 5 minutes after the engine has stopped.

Standard fuel pressure:
147 kPa (1.5 kgf/cm², 21 psi) or higher

If the pressure is not as specified, check the fuel pump, fuel pressure regulator assembly and fuel injector assembly.
- o.** Disconnect the cable from the negative (-) battery terminal and carefully remove SST and the fuel tube connector to prevent gasoline from spraying.
- p.** Reconnect the fuel inlet hose (fuel tube connector).
- q.** Check for fuel leaks.
 - i.** Check that there are no fuel leaks after performing maintenance anywhere on the system.
If there are fuel leaks, repair or replace parts as necessary.