FUEL SYSTEM (1GR–FE)

110OZ–02

PRECAUTION

1. PRECAUTION

(a) Before inspecting and repairing the fuel system, disconnect the negative (–) battery cable.

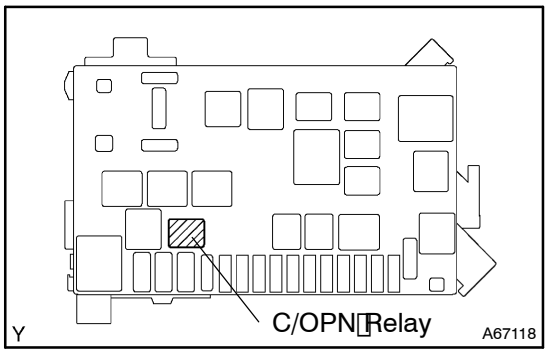
(b) Do not smoke or work near fire when handling the fuel system.

(c) Keep gasoline away from rubber or leather parts.

2. DISCHARGE FUEL SYSTEM PRESSURE

CAUTION:

- **Do not disconnect any part of the fuel system until you have discharged the fuel system pressure.**
- **Even after discharging the fuel pressure, place a shop rag over fittings as you separate them to reduce risk of fuel spray on yourself or in the engine compartment.**



(a) Remove the circuit opening relay from the engine room relay block.

(b) Start the engine. After the engine stopped, turn the ignition switch OFF.

HINT:

It is possible that DTC P0171 (system too lean) will be set.

(c) Check that the engine does not start.

(d) Remove the fuel tank cap, and let the air out of the fuel tank.

(e) Disconnect the negative (–) battery cable.

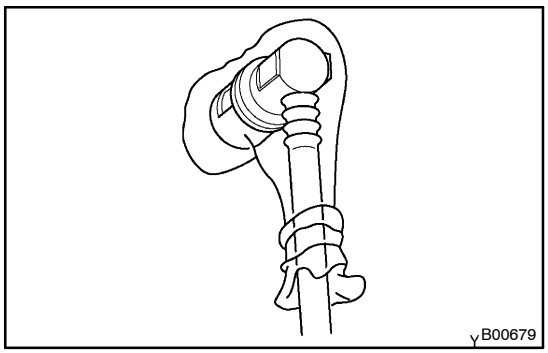
(f) Reinstall the circuit opening relay.

3. FUEL SYSTEM

(a) When disconnecting the high fuel pressure line, a large amount of gasoline will spill out, so observe these procedures.

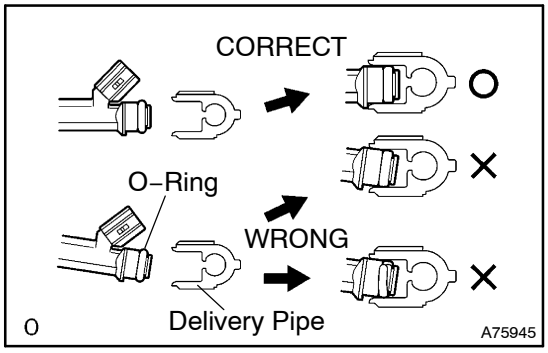
(1) Disconnect the fuel pump tube.
(See page 11–31)

(2) Drain the fuel that remained inside the fuel pump tube.

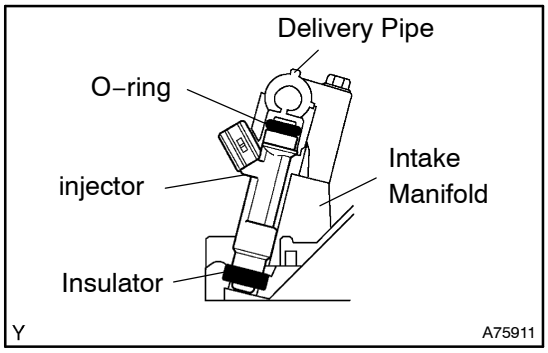


(3) Cover the disconnected fuel pump tubes with a vinyl or a plastic bag to prevent damage and foreign objects from being introduced.

(4) Place a tray under the vehicle or point of disconnection to catch any fuel that many spill.



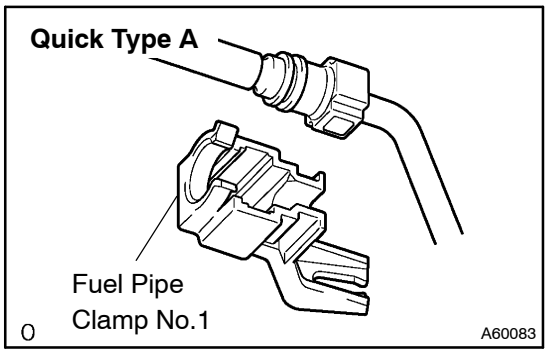
(b) Observe these precautions when removing and installing fuel injectors.
(1) Never reuse the O–ring.
(2) When placing the new O–ring on the injector, do not damage the O–ring.
(3) Coat new O–rings with grease or gasoline before installing. Do not use engine oil, gear oil or brake oil.



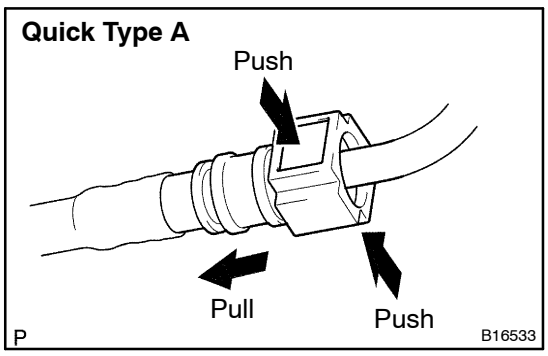
(c) Install the injector to the delivery pipe and lower intake manifold as shown in the illustration.

NOTICE:

Before installing the injector, be sure to apply grease or gasoline on the place where a delivery pipe or cylinder head contacts an O–ring of the injector.

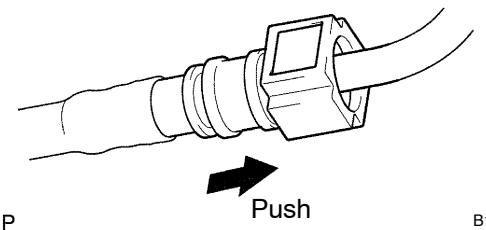


(d) Observe these precautions when disconnecting the fuel tube connectors (Quick type A):
(1) Remove the fuel pipe clamp No.1.

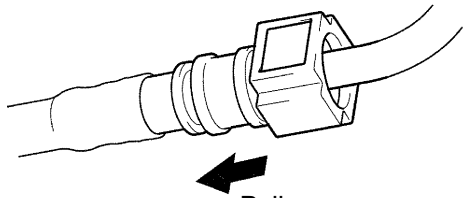


(2) Check that there is no dirt or mud on the pipe and around the connector before disconnecting them. Clean them if necessary.
(3) Disconnect the connector from the pipe by hand.
(4) When the connector and the pipe are stuck, Push and pull the connector to release and pull the connector out from the pipe carefully.
(5) Inspect that there is no dirt or mud on the sealing surface of the disconnected pipe. Clean it away if necessary.
(6) Cover the disconnect pipe and the connector with a vinyl or plastic bag to prevent damage and foreign objects from being introduced.

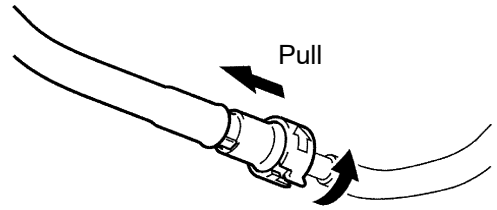
Quick Type A



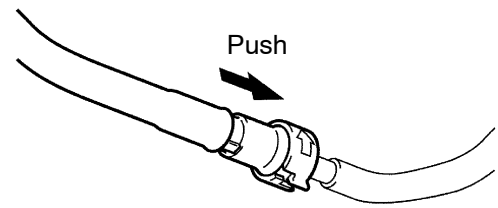
Quick Type A



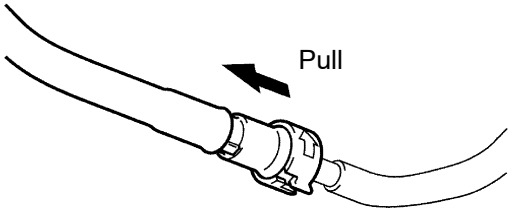
Quick Type B



Quick Type B



Quick Type B



(e) Observe these precautions when connecting the fuel tube connectors (Quick Type A):
- (1) Check that there is no damage or foreign objects in the connected part of the pipe.
- (2) Match the axis of the connector with the axis of the pipe, and push into the connector until the connector makes a ”click” sound. If the connection is tight, apply little amount of fresh engine oil on the tip of the pipe.
- (3) After having finished the connection, check if the pipe and the connector are securely connected by pulling on them.
- (4) Check for fuel leaks.

(f) Observe these precautions when disconnecting the fuel tube connector (Quick type B):
- (1) Check if there is any dirt or mud on the pipe and around the connector before disconnecting them. Clean the dirt away if necessary.
- (2) Disconnect the connector from the pipe by hand.
- (3) When the connector and the pipe are stuck, push and pull the connector to free and pull it out carefully. Do not use any tool in this operation.
- (4) Inspect if there is any dirt or mud on the sealing surface of the disconnected pipe. Clean it away if necessary.
- (5) Cover the disconnected pipe and the connector with a vinyl or a plastic bag to prevent damage and foreign objects from being introdused.

(g) Observe these precautions when connecting the fuel tube connector (Quick type B):
- (1) Match the axis of the connector with axis of the pipe, and push in the connector until the connector makes a ”click” sound. If the connection is tight, apply little amount of new engine oil on the tip of the pipe.
- (2) After having finished the connection, check if the pipe and the connector are securely connected by pulling on them.
- (3) Check for fuel leaks.

(h) Observe these precautions when handling nylon tube.

CAUTION:

- **Be careful not to turn the connection part of the nylon tube and the quick connector when connecting them.**
- **Do not bend or twist the nylon tube.**
- **Do not remove the EPDM protector on the outside of the nylon tube.**
- **Do not close the piping by bending the nylon tube.**

4. CHECK FOR FUEL LEAKS

(a) Check that there are no fuel leaks after doing maintenance the fuel system. (See page 11–5)