

FUEL SYSTEM (1ZZ-FE/3ZZ-FE)

110UT-01

PRECAUTION

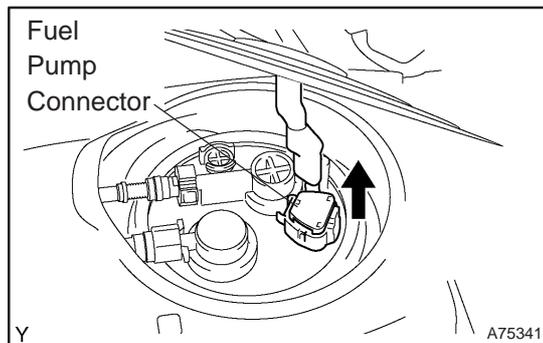
1. PRECAUTION

- (a) Before working on fuel system, disconnect 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:

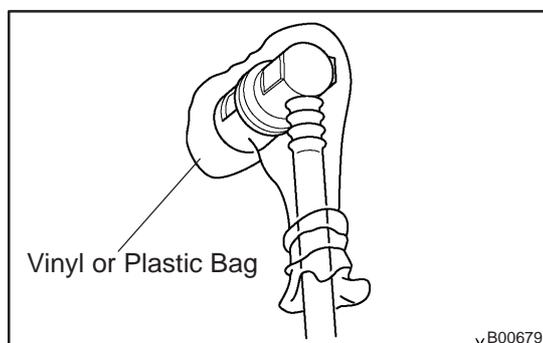
- Do not disconnect any part of the fuel system until you have discharged the fuel system pressure.
- Even after discharging the fuel pressure, place a shop rag over fittings as you separate them to reduce risk of fuel spray on yourself or in the engine compartment.

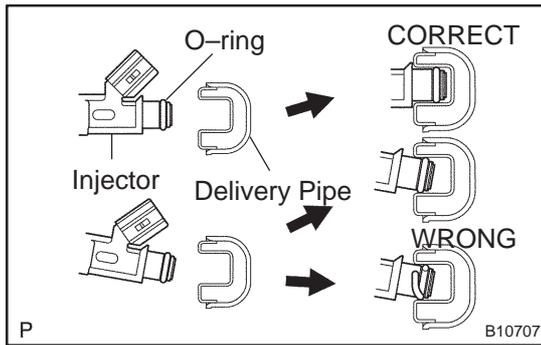


- (a) Disconnect the fuel pump connector.
- (b) Start the engine. After the engine has stopped, turn the ignition switch OFF.
- (c) Disconnect the negative (-) battery cable.
- (d) Connect the fuel pump connector.

3. FUEL SYSTEM

- (a) When disconnecting the high fuel pressure line, a large amount of gasoline will spill out, so observe these procedures.
 - (1) Discharge the pressure in the fuel system. (See step 2)
 - (2) Disconnect the fuel pump tube. (See page 11-93)
 - (3) Drain the fuel that remained inside the fuel pump tube.
 - (4) Cover the disconnected fuel pump tubes with a vinyl or a plastic bag to prevent damage and dirt.
 - (5) Place a tray under the vehicle or point of disconnection to catch any fuel that may spill.

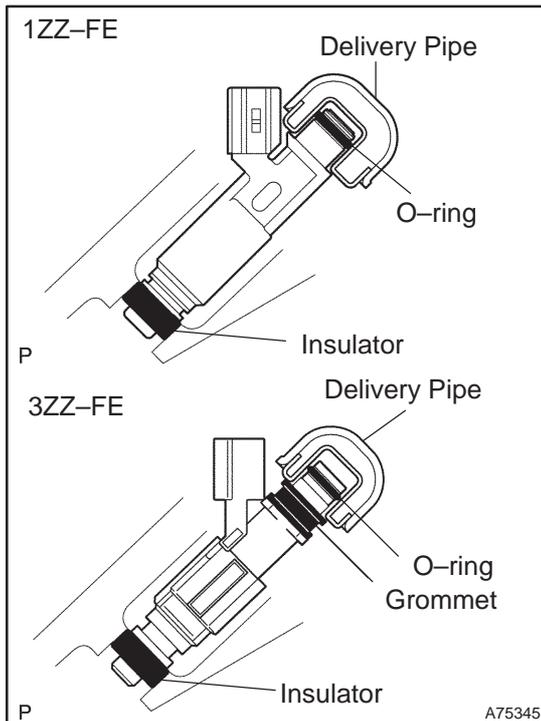




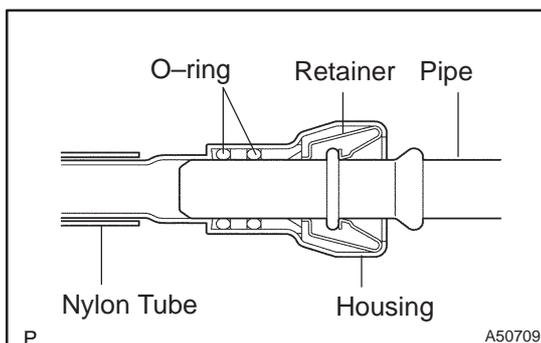
- (b) Observe the following precautions when removing and installing fuel injectors.

NOTICE:**Never reuse the O-ring.**

- (1) When installing a new O-ring on the injector, be careful not to damage the injector.
- (2) Coat the new O-ring with grease or gasoline before installing. Never use engine oil, gear oil or brake oil.



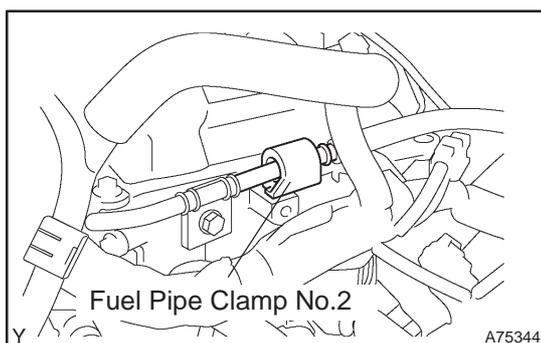
- (c) Install the injector to the delivery pipe and cylinder head as shown in the illustration. Before installing the injector, be sure to apply grease or gasoline on the place where the delivery pipe contacts the O-ring of the injector.



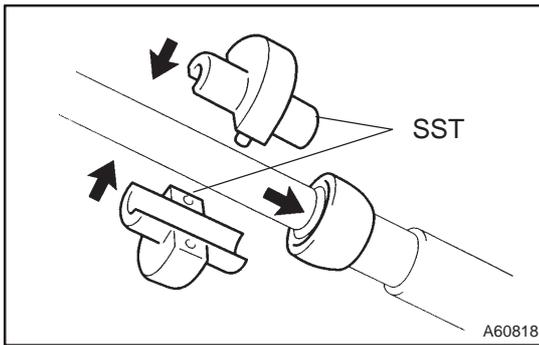
- (d) Observe these precautions when disconnecting the fuel delivery pipe.

HINT:

The structure of the metallic connector is as shown in the illustration on the left.

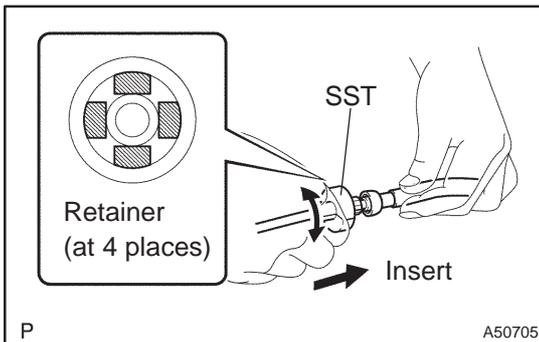


- (1) Remove the fuel pipe clamp No.2.
- (2) Find the metallic connector of the fuel tube assembly, slide it towards the vehicle rear and hold it as it is.



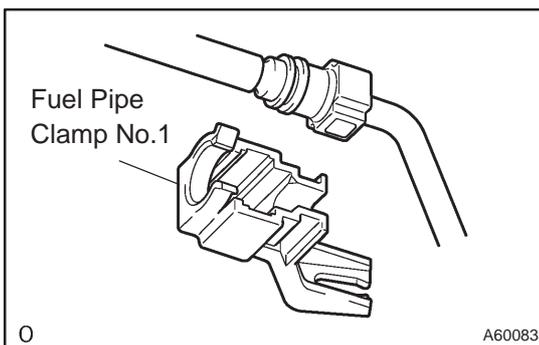
- (3) Assemble SST to the connection of fuel pipe as shown in the illustration.

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- (4) Turn SST, align the retainers inside the connector with SST chamfered parts and insert SST into the connector.

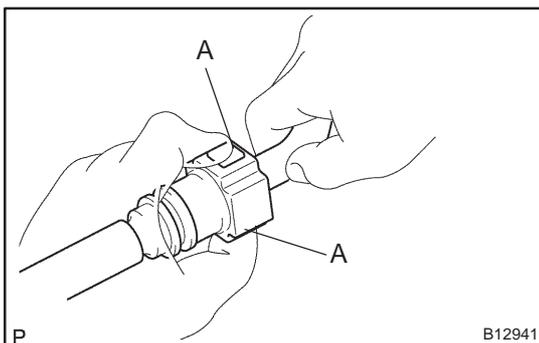
- (5) Slide SST and the connector together towards the fuel tube assembly.



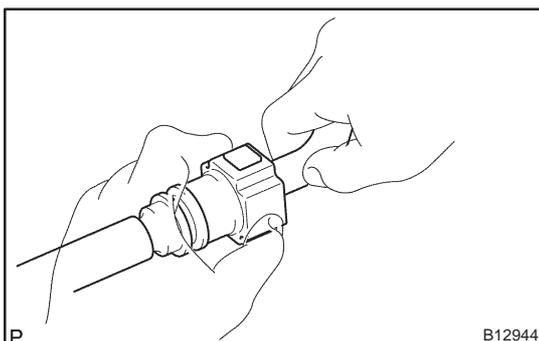
- (e) Observe these following precautions when disconnecting the fuel tube connector (quick type).

- (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.

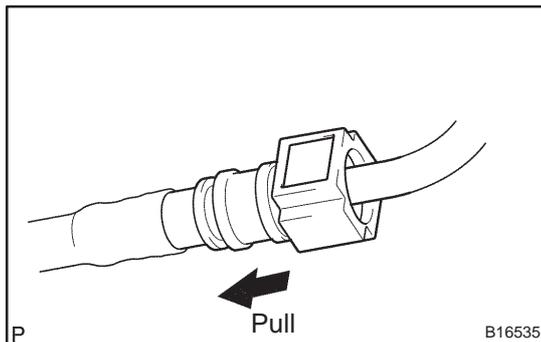
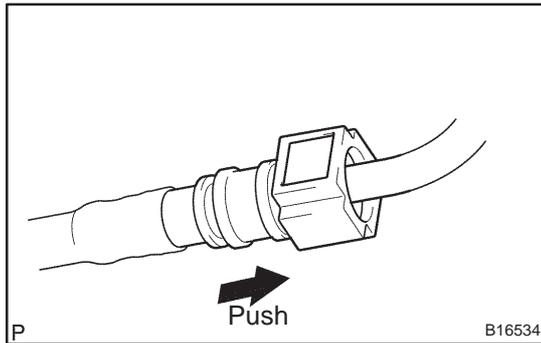
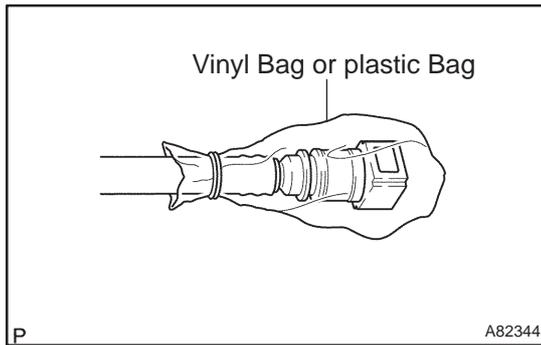


- (3) Disconnect the connector from the hose while pinching part A with fingers as shown in the illustration.



- (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) To prevent the disconnected pipe and connector from being damaged and foreign objects from being introduced, cover them with a vinyl or plastic bag.

(f) Observe these precautions when connecting the fuel tube connectors (Quick Type):

- (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.

4. CHECK FOR FUEL LEAKS

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