

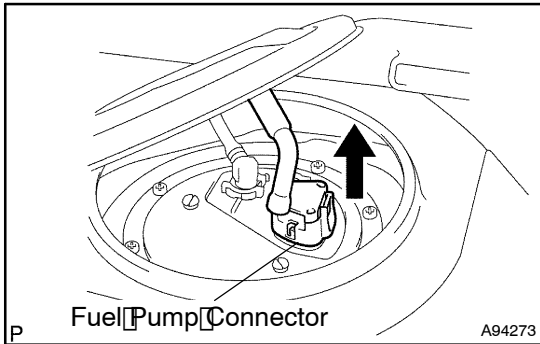
FUEL SYSTEM (1AZ-FE/2AZ-FE)

1113E-01

PRECAUTION

1. PRECAUTION

- Before working on the fuel system, disconnect the engine wire No. 3 (battery negative terminal).
- Do not smoke or work near fire when handling the fuel system.
- Keep gasoline away from any rubber or leather parts.

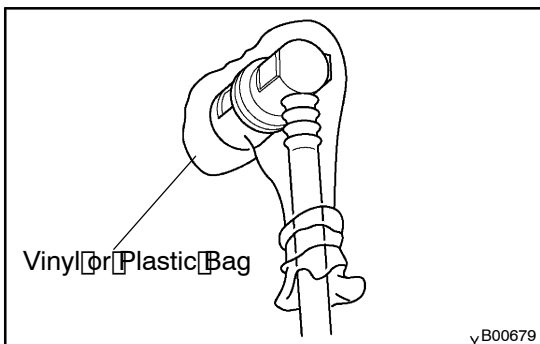


2. DISCHARGE FUEL SYSTEM PRESSURE

CAUTION:

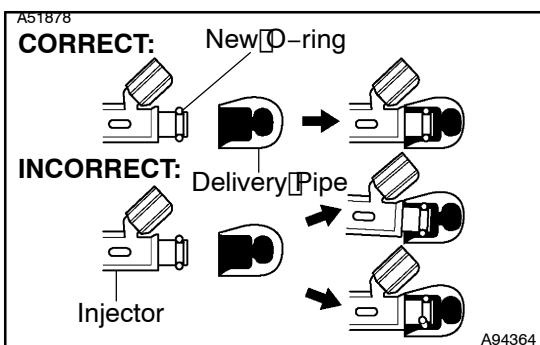
- Do not disconnect any part of the fuel system until you have discharged the fuel system pressure.
- Even after discharging the fuel pressure, place a shop rag over fittings as you separate them to reduce risk of fuel spray on yourself or in the engine compartment.

- Disconnect the fuel pump connector.
- Start the engine. After the engine stopped, turn the ignition switch to OFF.
- Disconnect the engine wire No. 3 (battery negative terminal).
- Connect the fuel pump connector.



3. FUEL SYSTEM

- When disconnecting the high fuel pressure line, a large amount of gasoline will spill out, so observe the following procedure:
 - Discharge fuel system pressure (see step 2).
 - Disconnect the fuel pump tube (see page 1-27).
 - Drain the remaining fuel inside the fuel pump tube.
 - Cover the disconnected fuel pump tubes with a vinyl or a plastic bag to prevent any damage and dirt.
 - Place a tray under the vehicle or point of disconnection to catch any fuel that may spill.

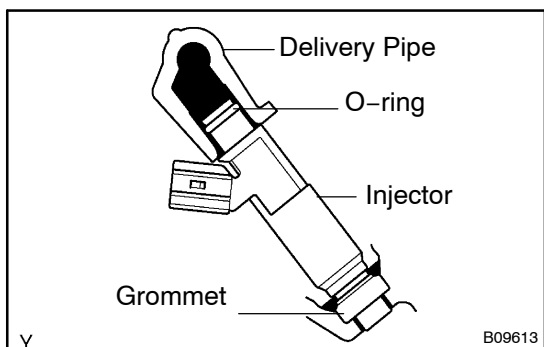


- Take the following precautions when removing and installing the fuel injectors.

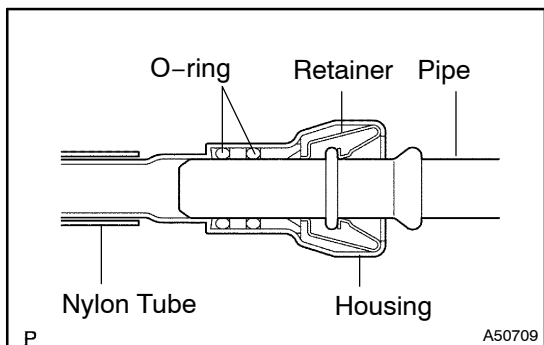
NOTICE:

Never reuse the O-ring.

- When installing a new O-ring to the injector, be careful not to damage the injector.
- Coat the new O-ring with gasoline or spindle oil before installing. Never use engine oil, gear oil or brake oil.



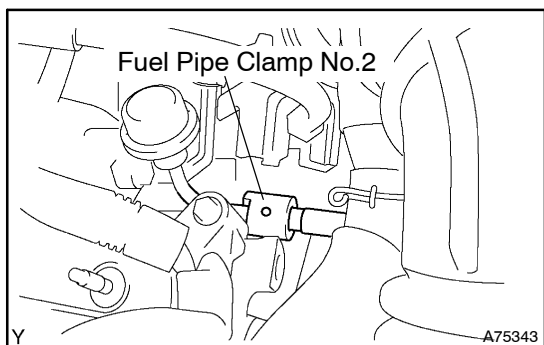
- (c) Install the injector to the delivery pipe and cylinder head as shown in the illustration. Before installing the injector, be sure to apply gasoline or spindle oil on the place where the delivery pipe contacts the O-ring of the injector.



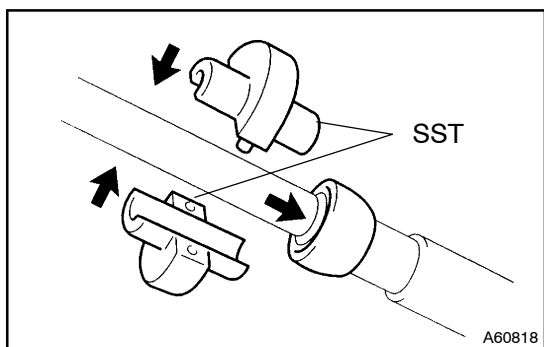
- (d) Take the following precautions when disconnecting the fuel delivery pipe.

HINT:

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

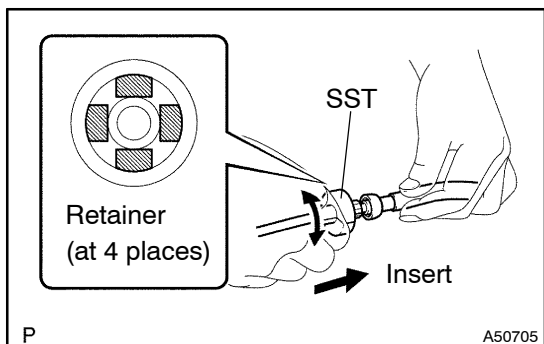


- (1) Remove the fuel pipe clamp No.2.
- (2) Find the metallic connector of the fuel tube assembly, slide it towards the vehicle rear and hold it as it is.

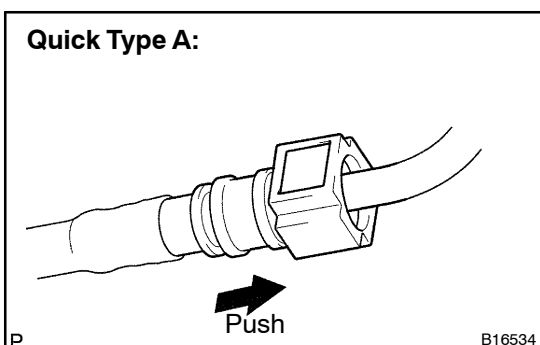
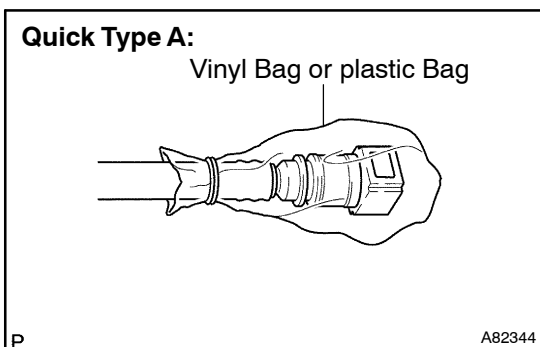
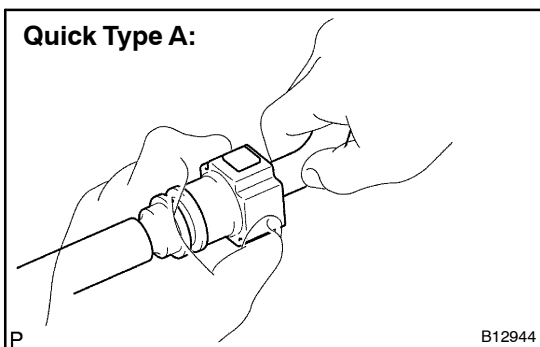
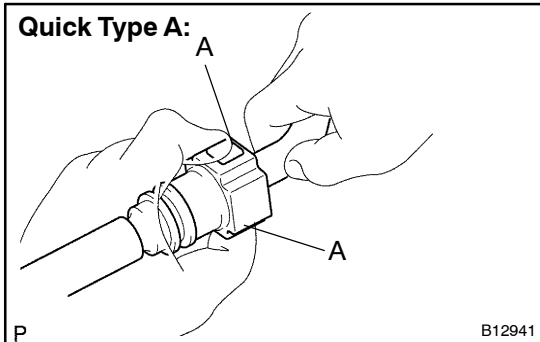
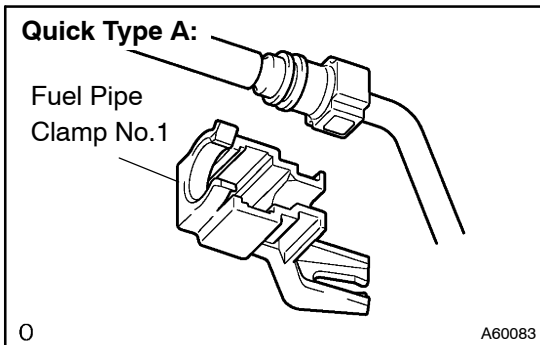


- (3) Assemble SST to the connection of the fuel pipe as shown in the illustration.

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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) Take the following precautions when disconnecting the fuel tube connector (quick type A).

- (1) Remove the fuel pipe clamp No. 1.
- (2) Check the pipe and around the connector for dirt or mud before disconnecting them. Clean them if necessary.

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

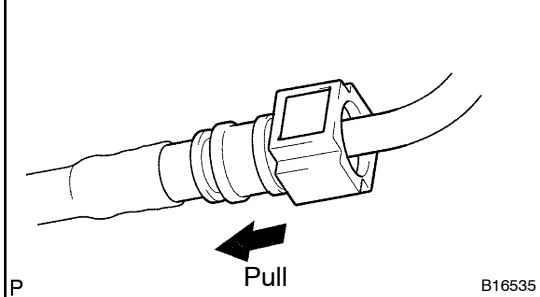
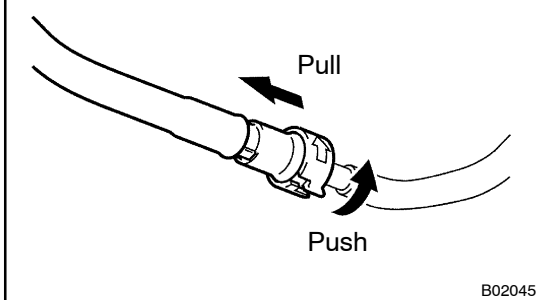
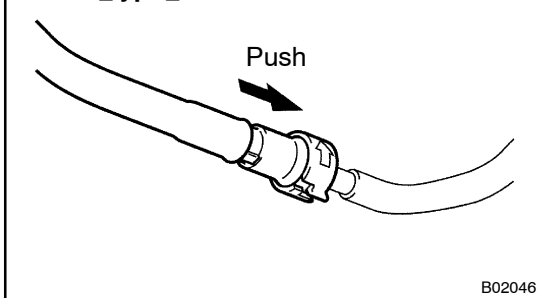
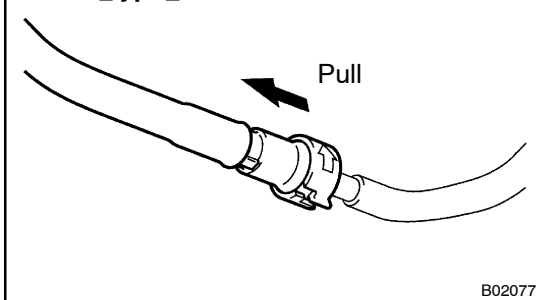
- (4) When the connector and the pipe are stuck, push and pull the connector to release and pull the connector out from the pipe carefully.

- (5) Check the sealing surface of the disconnected pipe for dirt or mud. 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) Take the precautions when connecting the fuel tube connectors (quick type A):

- (1) Check the connected part of the pipe for any damage or foreign objects.
- (2) Align the axis of the connector with the axis of the pipe, then push into the connector until the connector makes a "click" sound. If the connection is tight, apply a light coat of fresh engine oil on the tip of the pipe.

Quick Type A:**Quick Type B:****Quick Type B:****Quick Type B:**

- (3) After finishing the connection, check if the pipe and the connector are securely connected by pulling on them.
- (4) Check for fuel leaks.
- (g) Take the following precautions when disconnecting the fuel tube connector (quick type B):
 - (1) Check the pipe and around the connector for dirt or mud before disconnecting them. Clean them 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) Check the sealing surface of the disconnected pipe for dirt or mud. Clean it away if necessary.
 - (5) To prevent the disconnected pipe and connector from being damaged and foreign objects from being introduced, cover them with a vinyl or plastic bag.
- (h) Take the following precautions when connecting the fuel tube connector (quick type B):
 - (1) Check the connected part of the pipe for any damage or foreign objects.
 - (2) Align the axis of the connector with the axis of the pipe, then push into the connector until the connector makes a "click" sound. If the connection is tight, apply a light coat of fresh engine oil on the tip of the pipe.
 - (3) After finishing the connection, check if the pipe and the connector are securely connected by pulling on them.
 - (4) Check for fuel leaks.
- (i) Take the following 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 anywhere on the fuel system (see page 11-5).