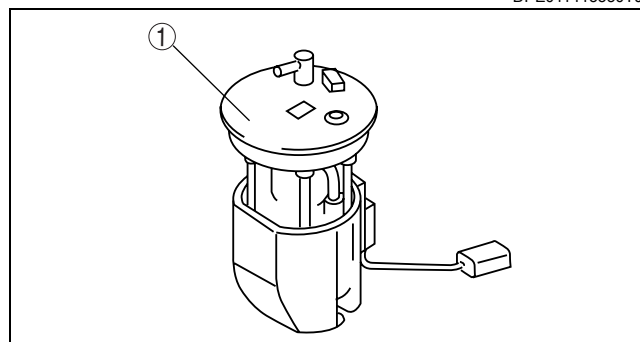


FUEL SYSTEM [~~L8~~, LF]

FUEL PUMP UNIT CONSTRUCTION/OPERATION [~~L8~~, LF]

DPE011413350T02



DPF0114ZT2003

1	Fuel pump unit
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Fuel Pump Unit

- Mainly consists of a fuel filter (high-pressure), pressure regulator, fuel pump, fuel reserve cup, and fuel filter (low-pressure).
- A pressure regulator is built-in due to the adoption of a returnless fuel system.
- A hard-plastic fuel pump unit, with an integrated fuel filter (high-pressure) and fuel pump, has been adopted to simplify the fuel line.
- Fuel in the fuel reserve cup is suctioned out through the fuel filter (low-pressure) by the fuel pump, and pumped to the fuel filter (high-pressure). Return fuel is sent back to the fuel reserve cup or the fuel tank through the jet pump.
- If return fuel pressure exceeds the specified value, the relief valve discharges return fuel into the fuel pump unit without passing it through the venturi. Due to this, return fuel pressure is maintained below the specified value.

Pressure Regulator

- Built into the fuel pump unit due to adoption of a returnless fuel system.
- Mainly consists of a spring, release valve and diaphragm.
- Pressurizes fuel discharged by the fuel pump to **approx. 390 kPa {3.98 kgf/cm², 56.6 psi}** using the spring, diaphragm and release valve, and then pumps it to the fuel distributor.
- If fuel pressure exceeds **approx. 390 kPa {3.98 kgf/cm², 56.6 psi}**, the release valve opens to discharge unnecessary fuel pressure.

QUICK RELEASE CONNECTOR FUNCTION [~~L8~~, LF]

DPE011442692T01

- Quick release connectors that can be easily connected/disconnected have been adopted to improve serviceability.

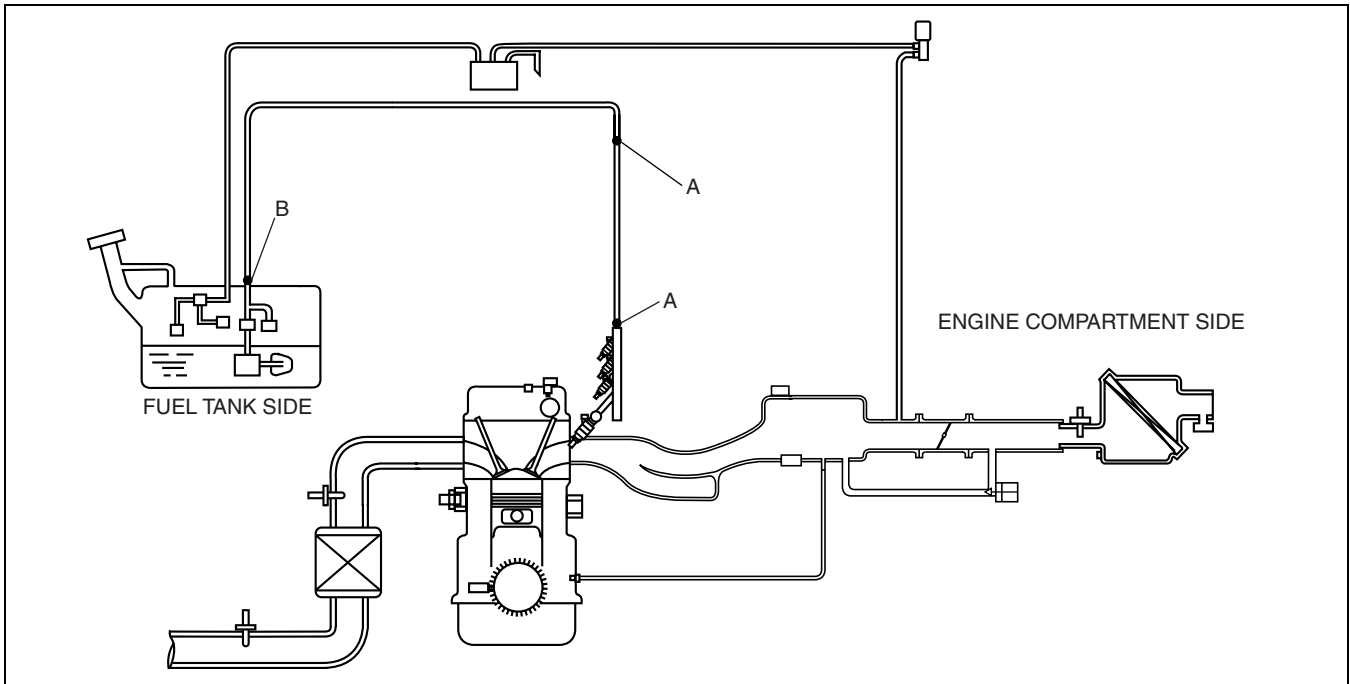
QUICK RELEASE CONNECTOR CONSTRUCTION/OPERATION [~~L8~~, LF]

DPE011442692T02

- There are two types of quick release connectors.

FUEL SYSTEM [~~L8~~, LF]

Quick release connector locations



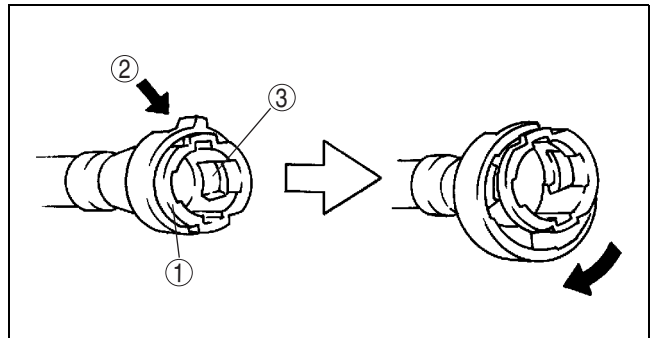
DPE0114ZW201

1	Engine compartment side
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2	Fuel tank side
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Type A

- Used on the fuel tank side of the charcoal canister and in the engine compartment.
- An **SST** is not used with this type.
- Mainly consists of a retainer and O-ring. The quick release connector is integrated with the fuel hose and therefore cannot be disassembled.
- When the quick release connector is connected, the fuel pipe projection is locked at the clamp lock point. By pushing the clamp release tab to expand the clamp, the lock point is released allowing the fuel pipe to be disconnected.



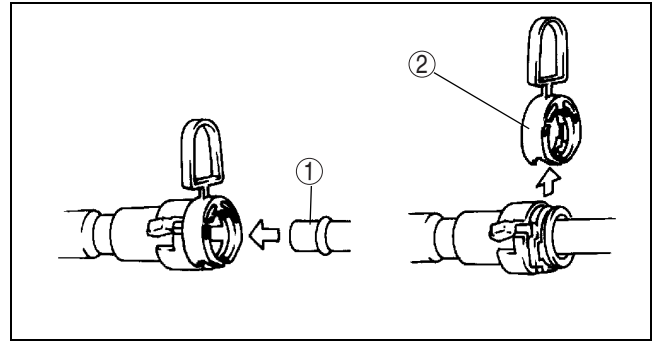
B3E0114T009

1	Quick release connector
2	Release tab
3	Lock point

- To connect the quick release connector properly, push it into the fuel pipe until a locking click sound is heard.

FUEL SYSTEM [~~L8~~, LF]

- New quick release connectors are fitted with a checker tab that prevents improper fit. This checker tab cannot normally be removed. When the quick release connector is properly connected to the fuel pipe, the lock is released and the checker tab comes off. Due to this, it can be verified that the quick release connector is completely connected.

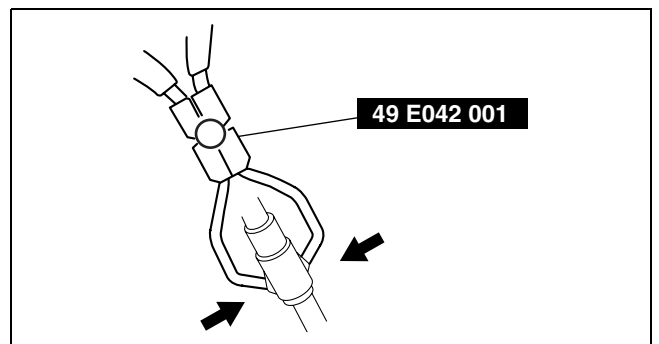


B3E0114T010

1	Fuel pipe
2	Checker tab

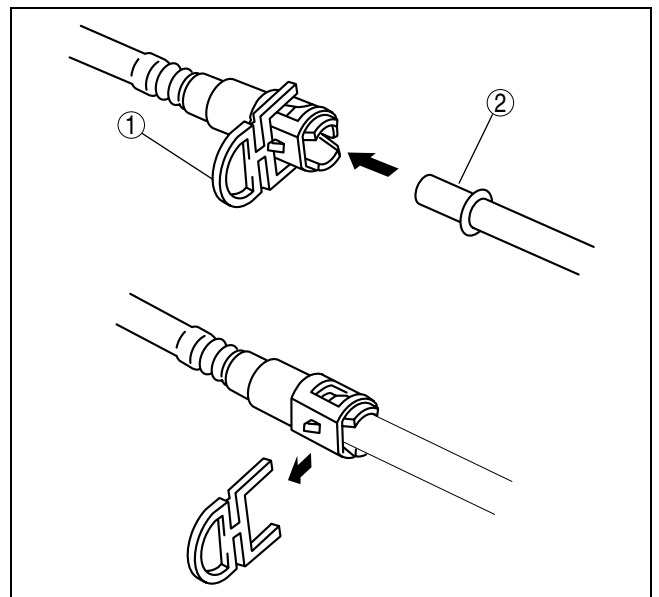
Type B

- The connector can be disconnected by pinching the retainer tab with the **SST** and pulling the connector.
- To connect the quick release connector properly, push it into the fuel pipe until a locking click sound is heard



CPJ114ZW881

- New quick release connectors are fitted with a checker tab that prevents improper fit. This checker tab cannot normally be removed. When the quick release connector is properly connected to the fuel pipe, the lock is released and the checker tab comes off. Due to this, it can be verified that the quick release connector is completely connected.



B3E0114T014

1	Checker tab
2	Fuel pipe

FUEL INJECTOR FUNCTION [~~L8~~, LF]

- Injects fuel according to fuel injector control signals from the PCM.

DPE011413250T01

FUEL INJECTOR CONSTRUCTION/OPERATION [~~L8~~, LF]

- Installed on the cylinder head.
- Mainly consists of a coil, spring, needle valve and ball.
- A signal is sent from the PCM causing exciting current passes through the coil and thereby pulling in the needle valve. Since the ball that opens and closes the injection opening is integrated with the needle valve, it is pulled

DPE011413250T02