

28. Fuel Tank

A: REMOVAL

WARNING:

Place "NO OPEN FLAMES" signs near the working area.

CAUTION:

- Be careful not to spill fuel.
- Catch the fuel from the tubes using a container or cloth.

1) Release the fuel pressure. <Ref. to FU(H4DO(HEV))-98, RELEASING OF FUEL PRESSURE, PROCEDURE, Fuel.>

2) Drain fuel. <Ref. to FU(H4DO(HEV))-99, DRAINING FUEL (WITH SUBARU SELECT MONITOR), PROCEDURE, Fuel.>

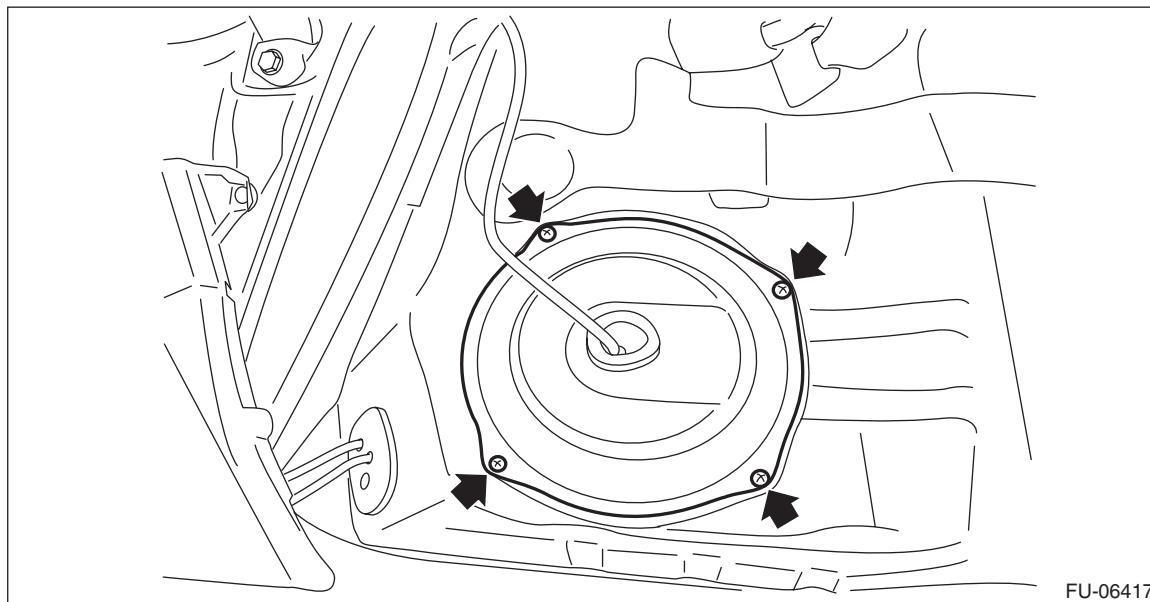
3) Disconnect the ground cable from battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

NOTE:

For the 12 volt engine restart battery, disconnect the ground terminal from 12V engine restart battery sensor.

4) Remove the rear seat cushion. <Ref. to SE-23, REMOVAL, Rear Seat.>

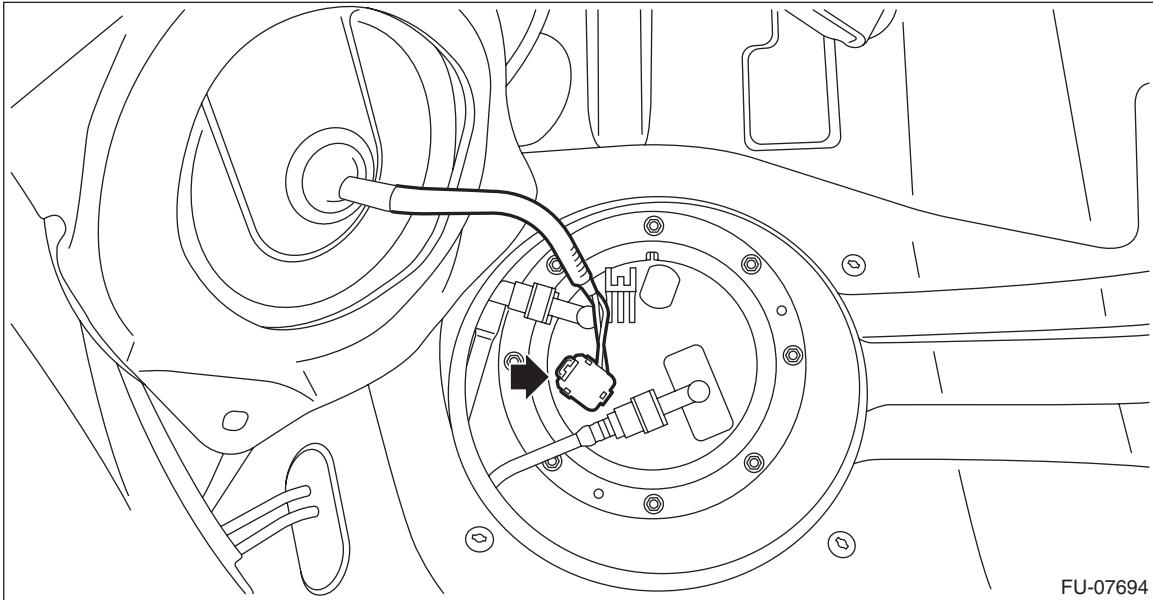
5) Remove the service hole cover of fuel pump.



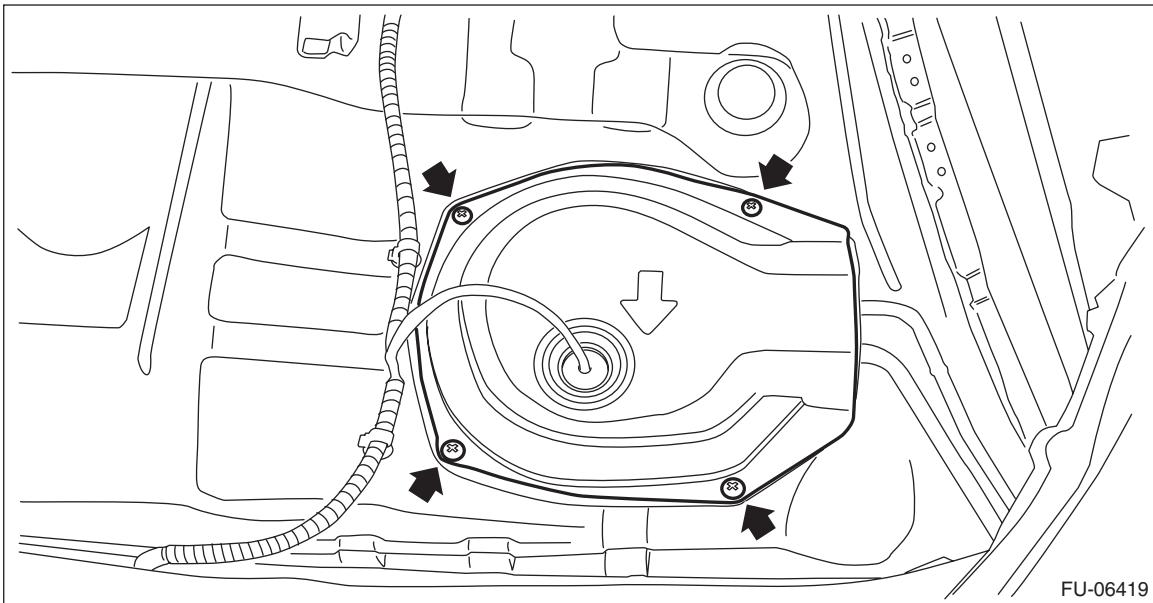
Fuel Tank

FUEL INJECTION (FUEL SYSTEMS)

6) Disconnect connectors from the fuel pump, and move aside the service hole cover.



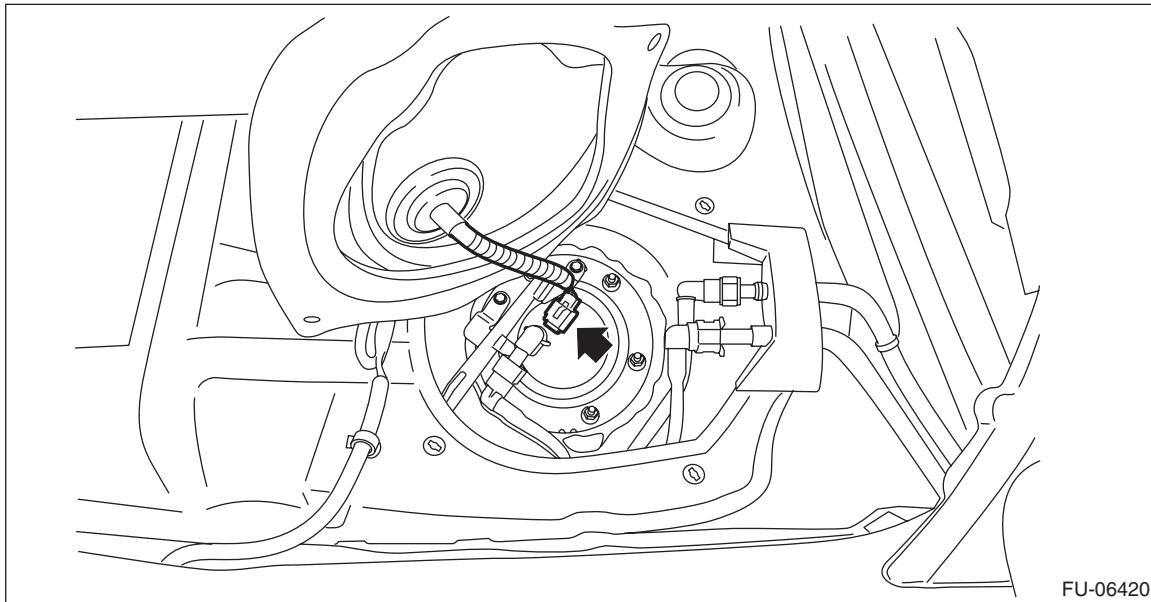
7) Remove the service hole cover of fuel sub level sensor.



Fuel Tank

FUEL INJECTION (FUEL SYSTEMS)

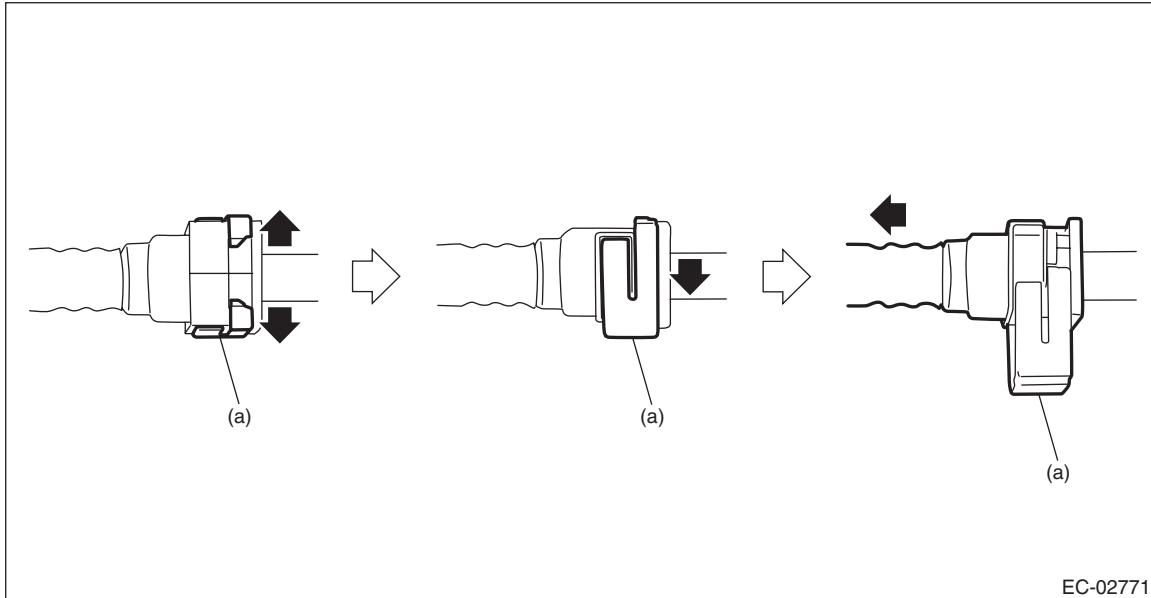
8) Disconnect the connector from the fuel sub level sensor, and move aside the service hole cover.



9) Disconnect the quick connector on the fuel delivery tube.

NOTE:

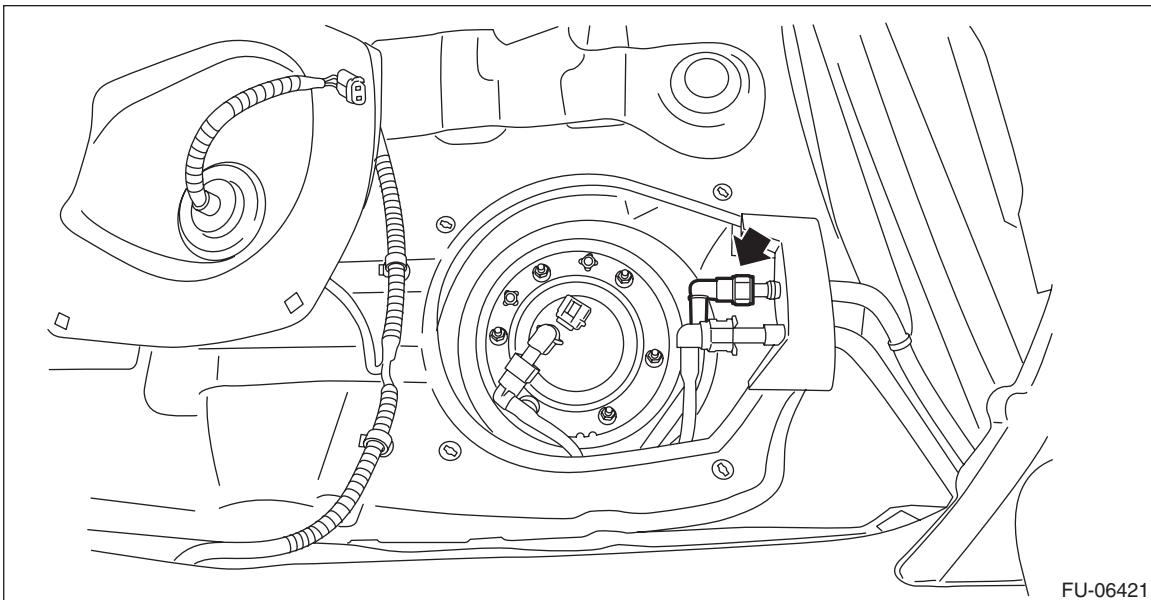
Disconnect the quick connector as shown in the figure.



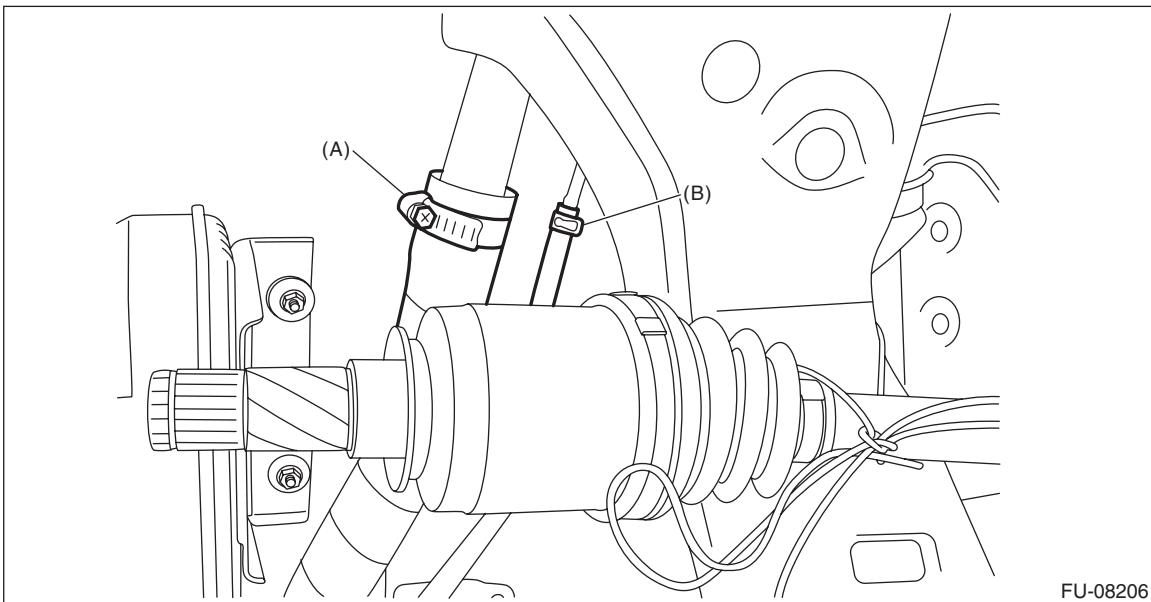
(a) Slider

Fuel Tank

FUEL INJECTION (FUEL SYSTEMS)



- 10) Lift up the vehicle.
- 11) Remove the rear exhaust pipe and muffler. <Ref. to EX(H4DO(w/o HEV))-18, REMOVAL, Rear Exhaust Pipe.> <Ref. to EX(H4DO(w/o HEV))-22, REMOVAL, Muffler.>
- 12) Remove the rear differential. <Ref. to DI-41, REMOVAL, Rear Differential (VA-type).>
- 13) Disconnect the fuel filler hose (A) and evaporation hose (B) from the fuel filler pipe assembly.

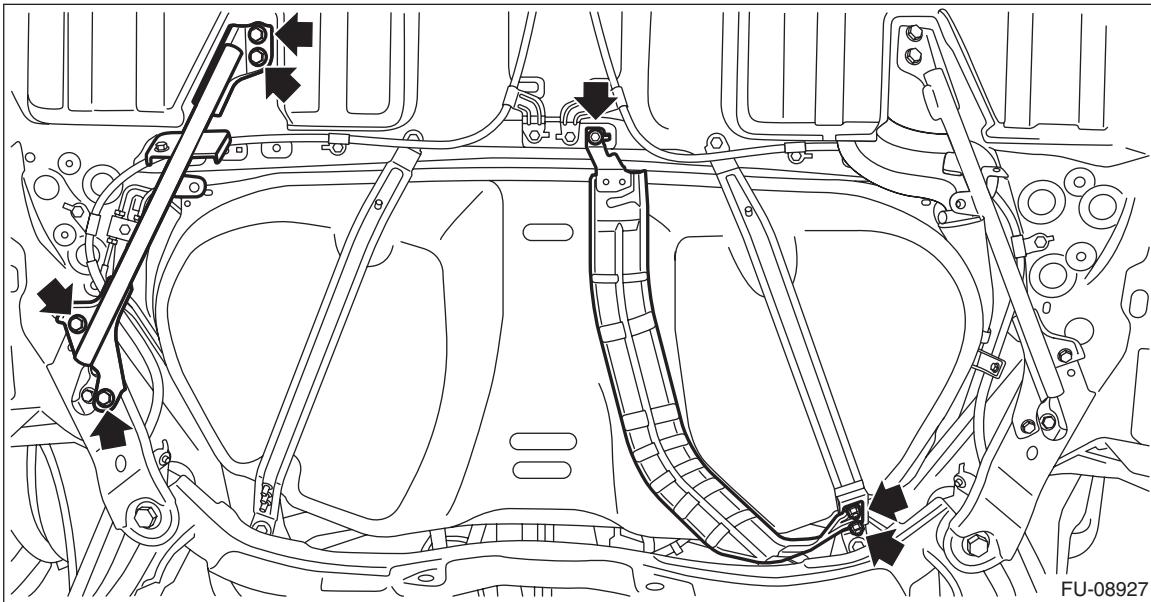


- 14) Remove the fuel tank protector. <Ref. to FU(H4DO(HEV))-104, REMOVAL, Fuel Tank Protector.>

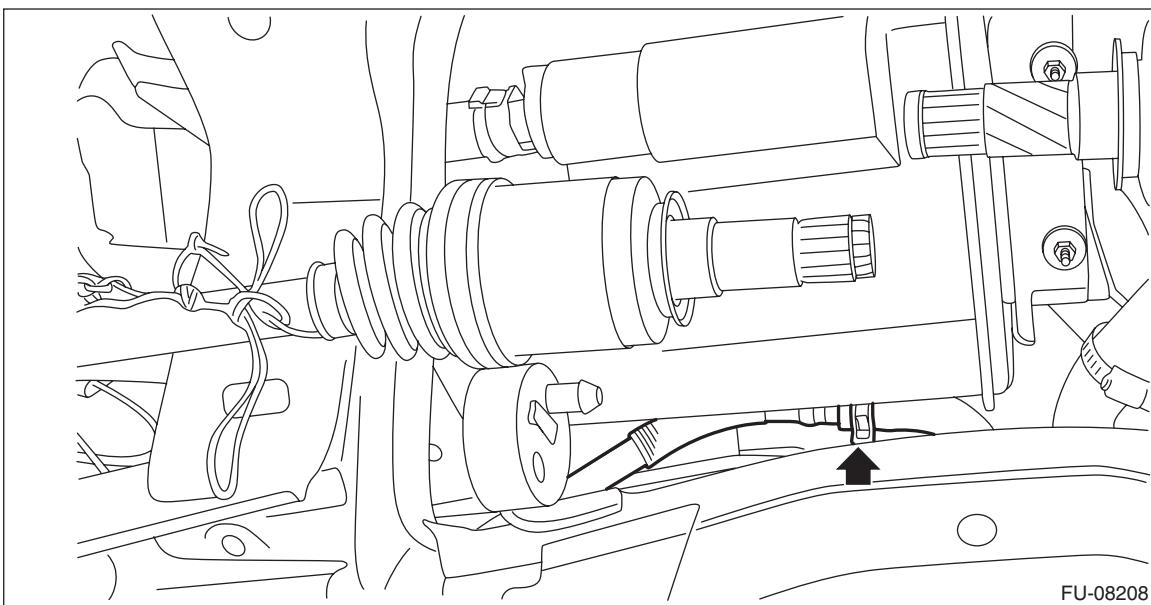
Fuel Tank

FUEL INJECTION (FUEL SYSTEMS)

15) Remove the heat shield cover and the stay - rear frame COMPL RH.



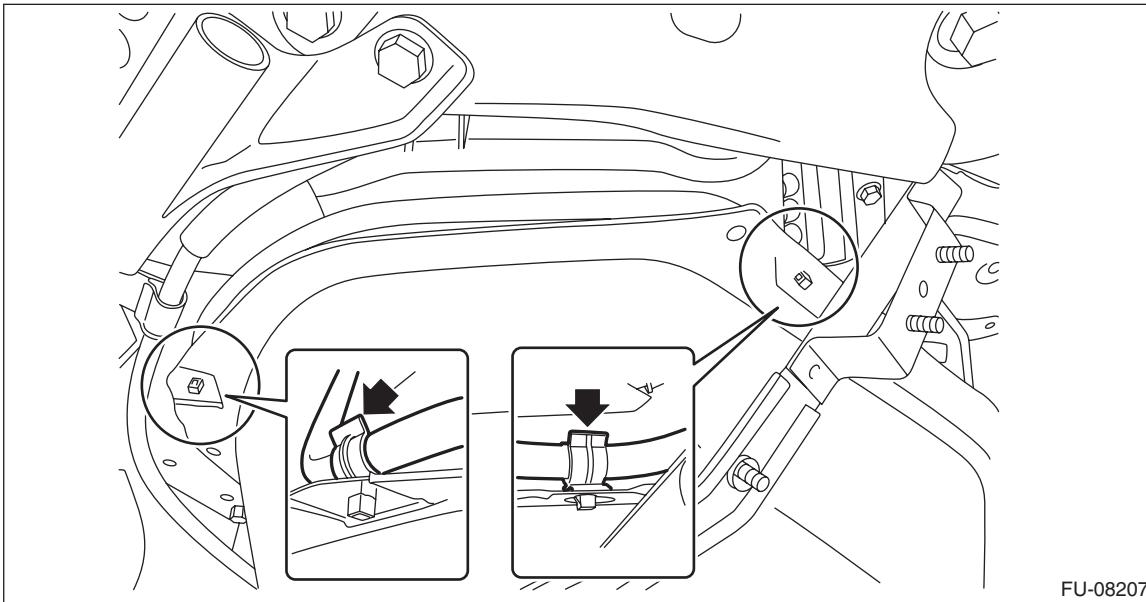
16) Disconnect the vent tube from the vent hose.



Fuel Tank

FUEL INJECTION (FUEL SYSTEMS)

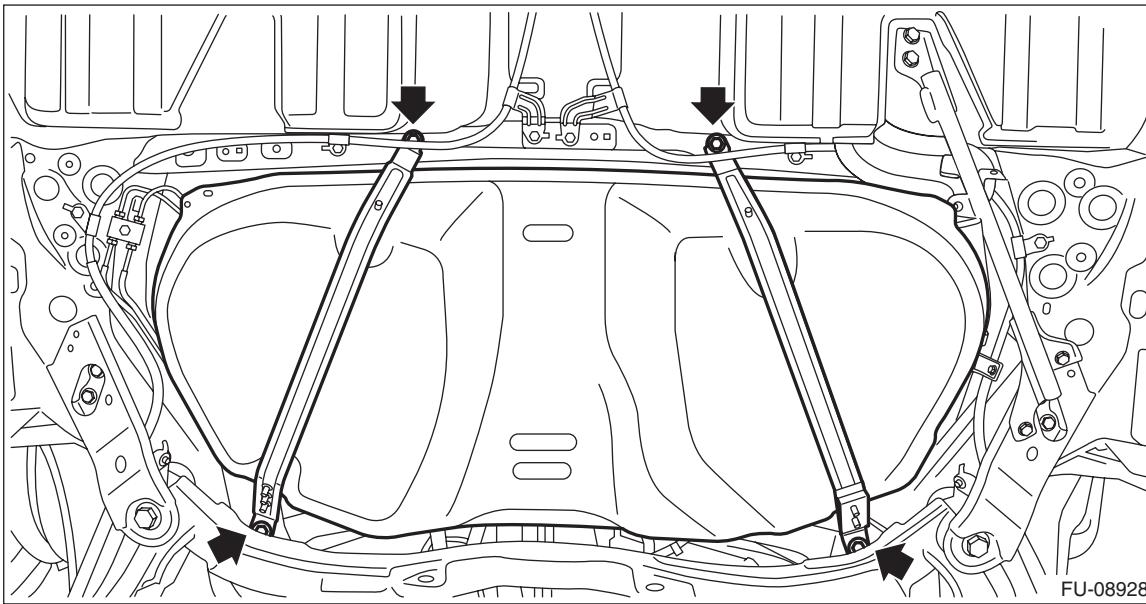
17) Remove the purge tube from the tube clamp.



18) Support the fuel tank with a transmission jack, remove the bolts from the fuel tank band, and remove the fuel tank from the vehicle.

WARNING:

- A helper is required to perform this work.
- Fuel may remain in the fuel tank. This will cause the left and right sides to be unbalanced. Be careful not to drop the fuel tank.

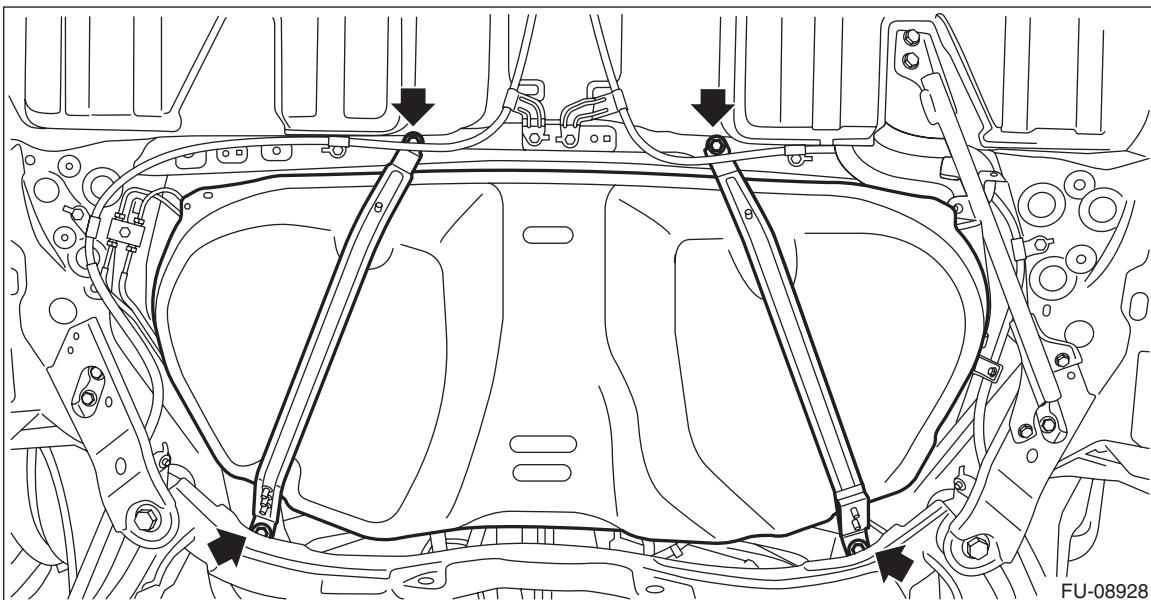


B: INSTALLATION

1) Support the fuel tank with a transmission jack, set the fuel tank in place, and temporarily tighten the bolts of the fuel tank band.

WARNING:

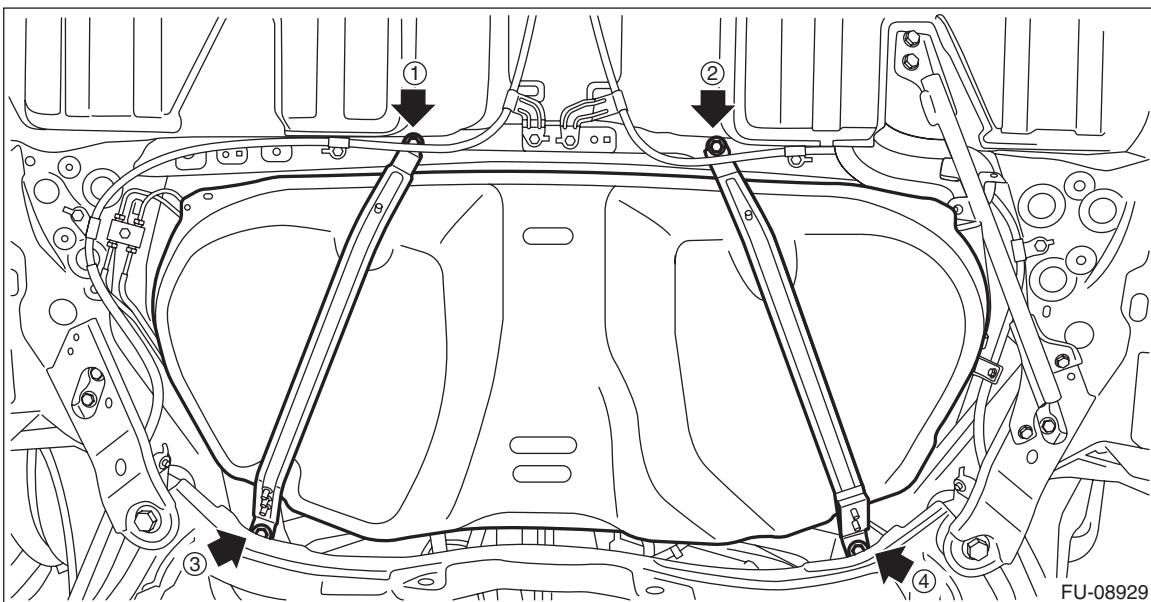
A helper is required to perform this work.



2) Tighten the bolts of the fuel tank band in the order shown in the figure.

Tightening torque:

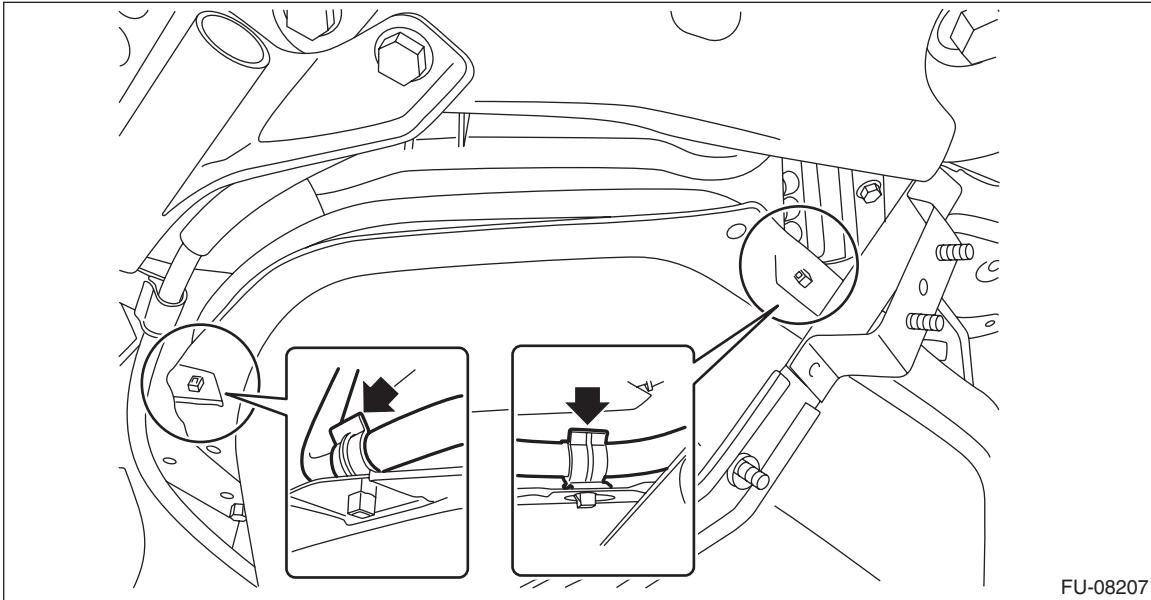
33 N·m (3.4 kgf·m, 24.3 ft-lb)



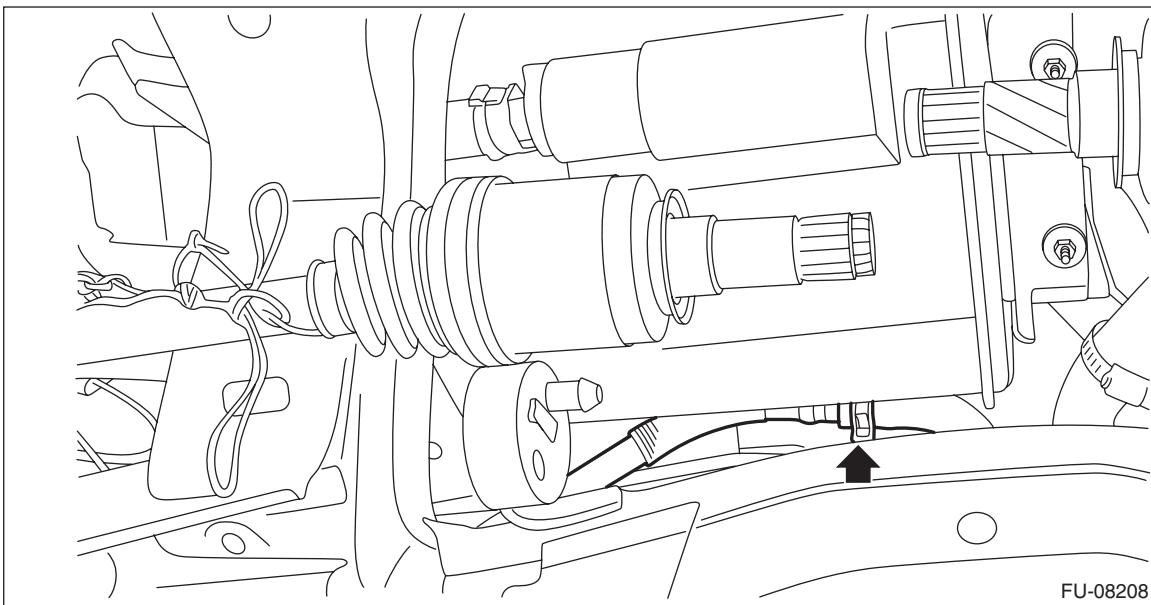
Fuel Tank

FUEL INJECTION (FUEL SYSTEMS)

3) Install the purge tube to the tube clamp.



4) Connect the vent tube to the vent hose.



Fuel Tank

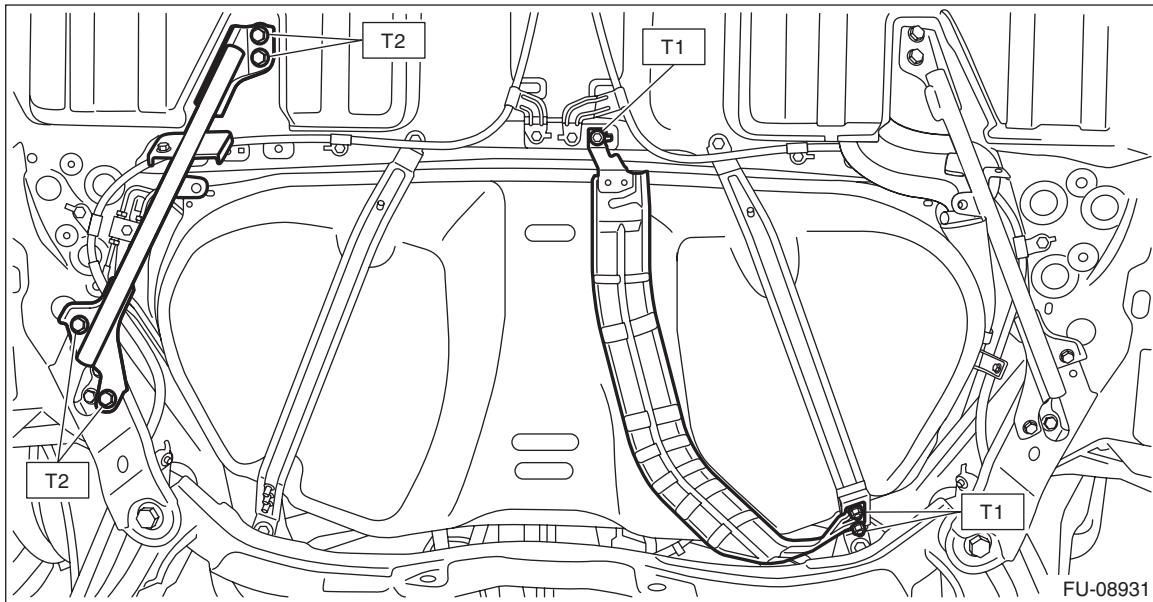
FUEL INJECTION (FUEL SYSTEMS)

5) Install the heat shield cover and the stay - rear frame COMPL RH.

Tightening torque:

T1: 18 N·m (1.8 kgf-m, 13.3 ft-lb)

T2: 33 N·m (3.4 kgf-m, 24.3 ft-lb)



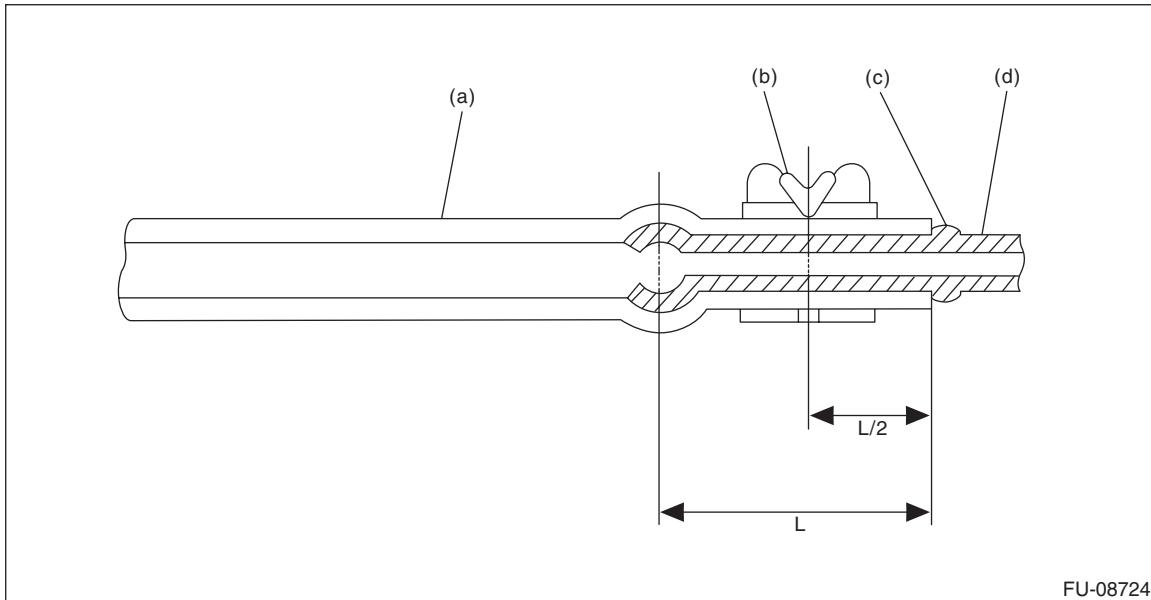
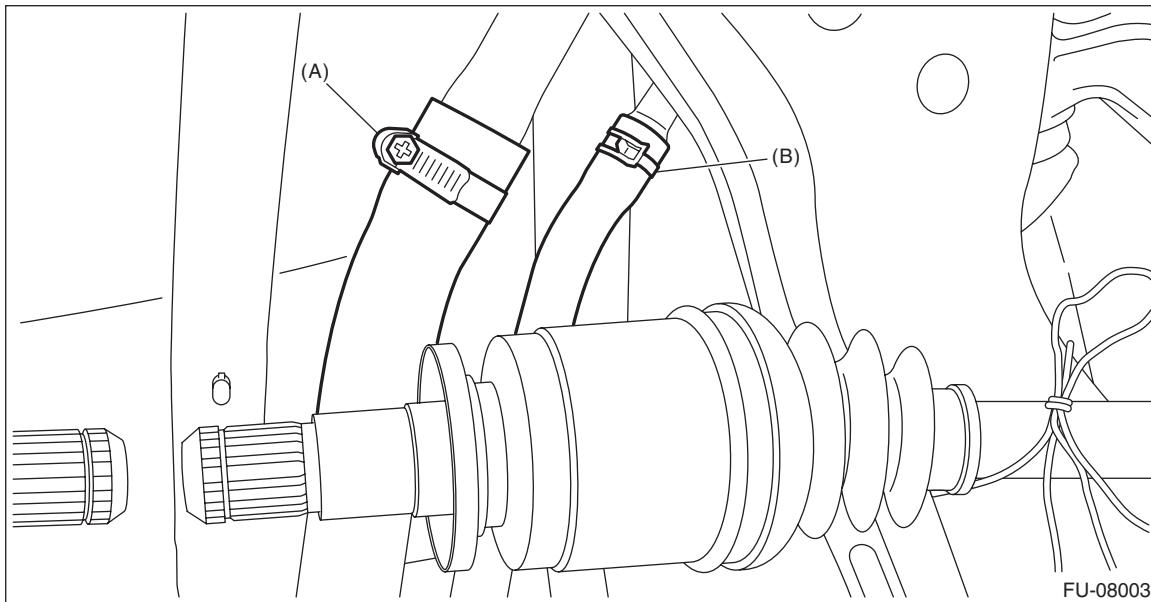
Fuel Tank

FUEL INJECTION (FUEL SYSTEMS)

6) Securely insert the fuel filler hose (A) and evaporation hose (B) until the hose end contacts the spool, then attach the clamp or clip as shown in the figure.

Tightening torque:

2.5 N·m (0.3 kgf·m, 1.8 ft-lb)



(a) Hose

(b) Clamp or clip

(c) Spool or bump

(d) Pipe

7) Install the fuel tank protector. <Ref. to FU(H4DO(HEV))-104, INSTALLATION, Fuel Tank Protector.>

8) Install the rear differential. <Ref. to DI-41, INSTALLATION, Rear Differential (VA-type).>

9) Install the rear exhaust pipe and muffler. <Ref. to EX(H4DO(w/o HEV))-20, INSTALLATION, Rear Exhaust Pipe.> <Ref. to EX(H4DO(w/o HEV))-25, INSTALLATION, Muffler.>

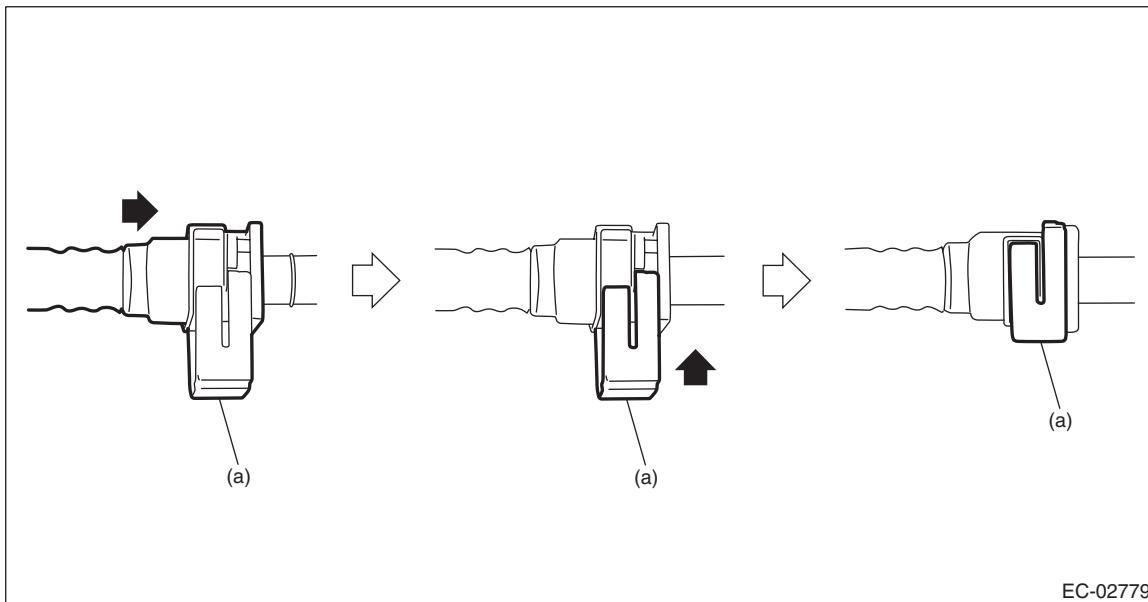
10) Connect the quick connector of the fuel delivery tube.

CAUTION:

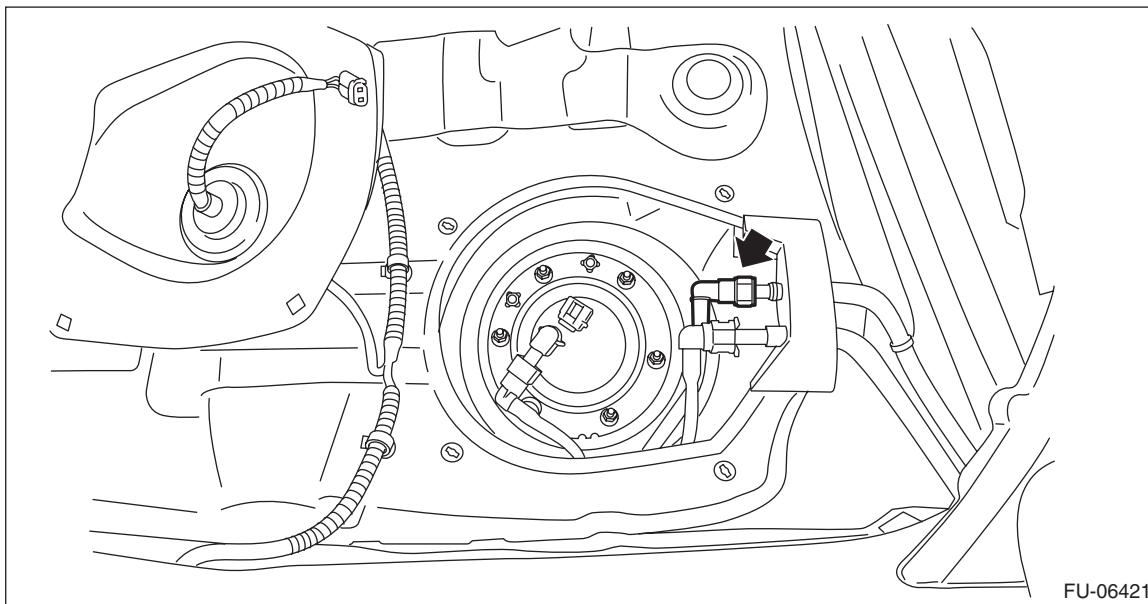
- Check that there is no damage or dust on the quick connector. If necessary, clean the seal surface of the pipe.
- When connecting the quick connector, make sure to insert it all the way in before locking the slider.
- When it is difficult to lock the slider, check that the connector is fully inserted.
- After locking the slider, check again that the quick connector is securely connected.

NOTE:

Connect the quick connector as shown in the figure.



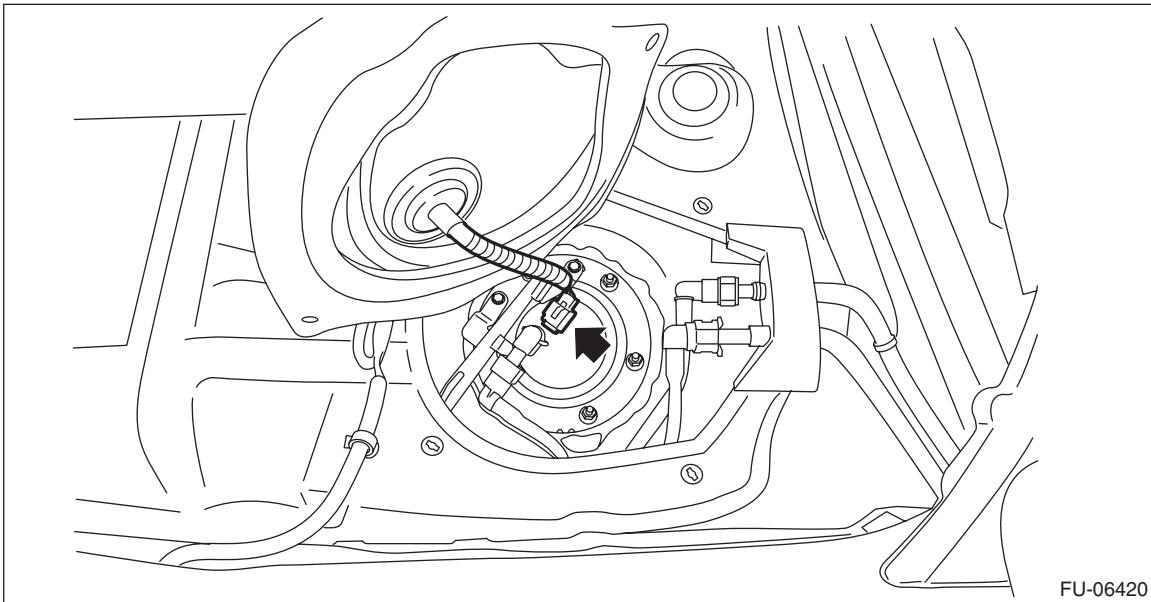
(a) Slider



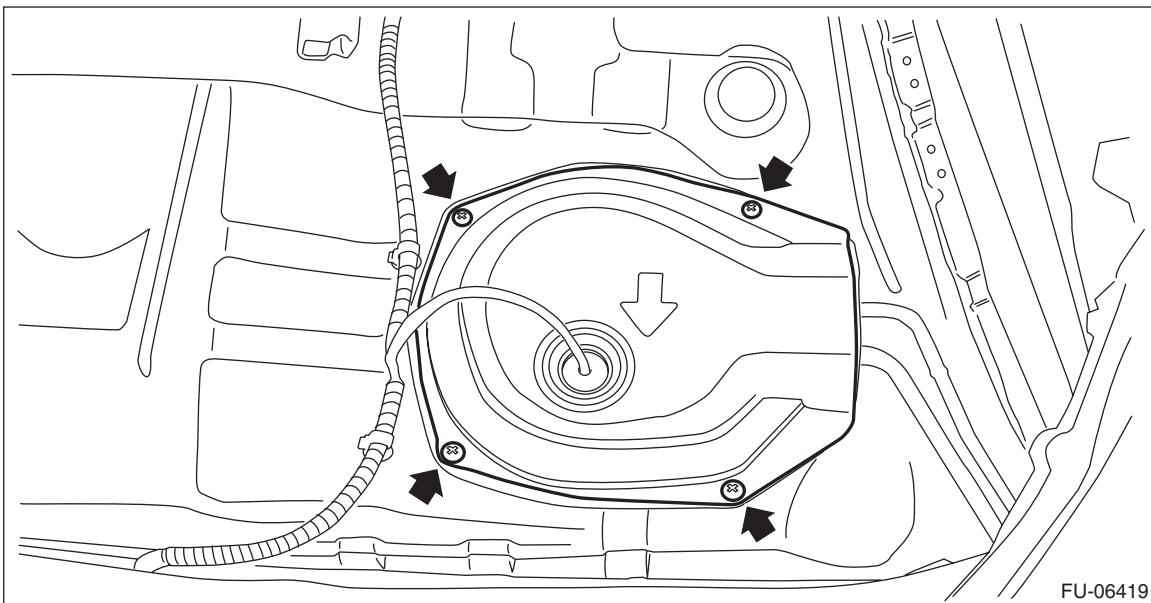
Fuel Tank

FUEL INJECTION (FUEL SYSTEMS)

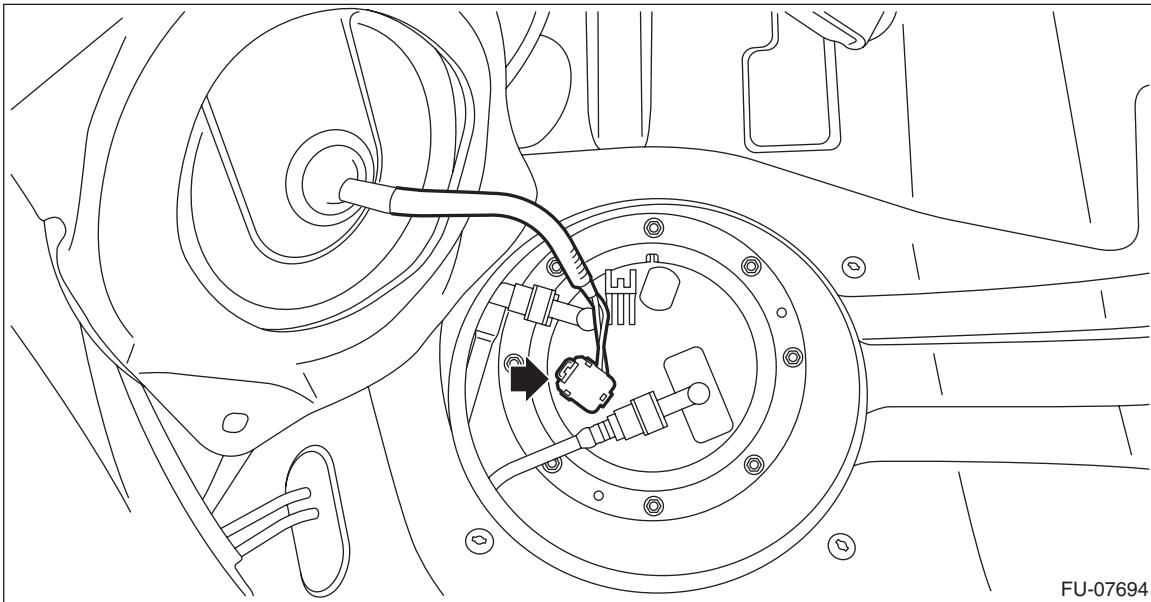
11) Connect the connector to the fuel sub level sensor.



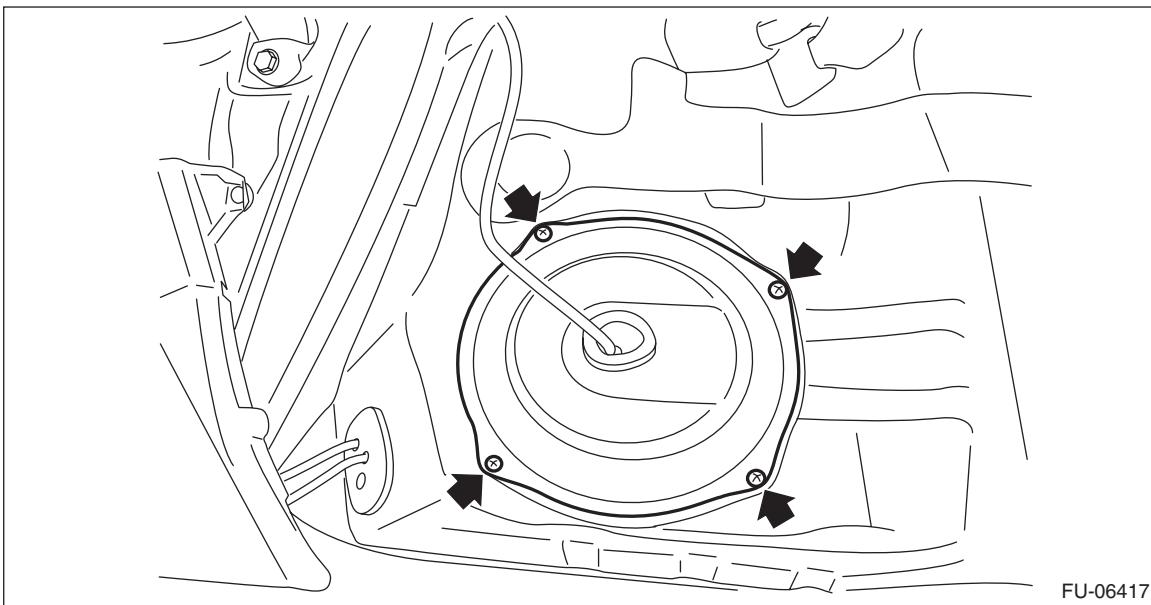
12) Install the service hole cover of fuel sub level sensor.



13) Connect the connector to the fuel pump.



14) Install the service hole cover of fuel pump.



15) Install the rear seat cushion. <Ref. to SE-27, INSTALLATION, Rear Seat.>

16) Connect the battery ground terminal. <Ref. to NT-5, BATTERY, NOTE, Note.>

C: INSPECTION

- 1) Check that the fuel tank and fuel pipe have no deformation, cracks and other damages.
- 2) Check that the fuel hose and tube have no cracks, damage or loose part.