

# Fuel Tank

## FUEL INJECTION (FUEL SYSTEMS)

### 34. Fuel Tank

#### A: REMOVAL

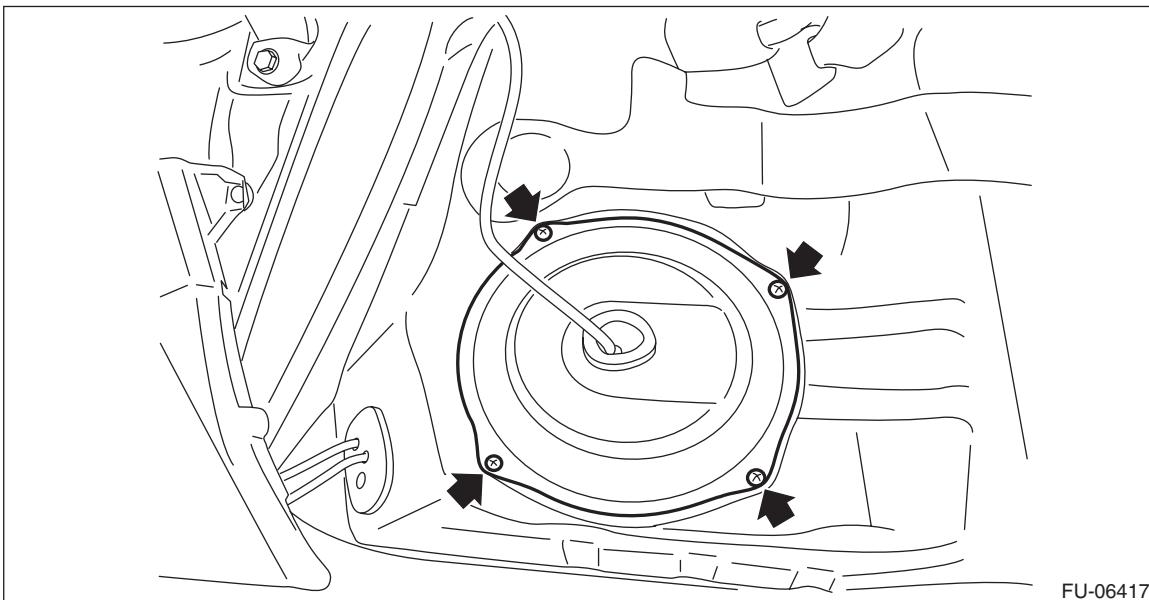
**WARNING:**

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

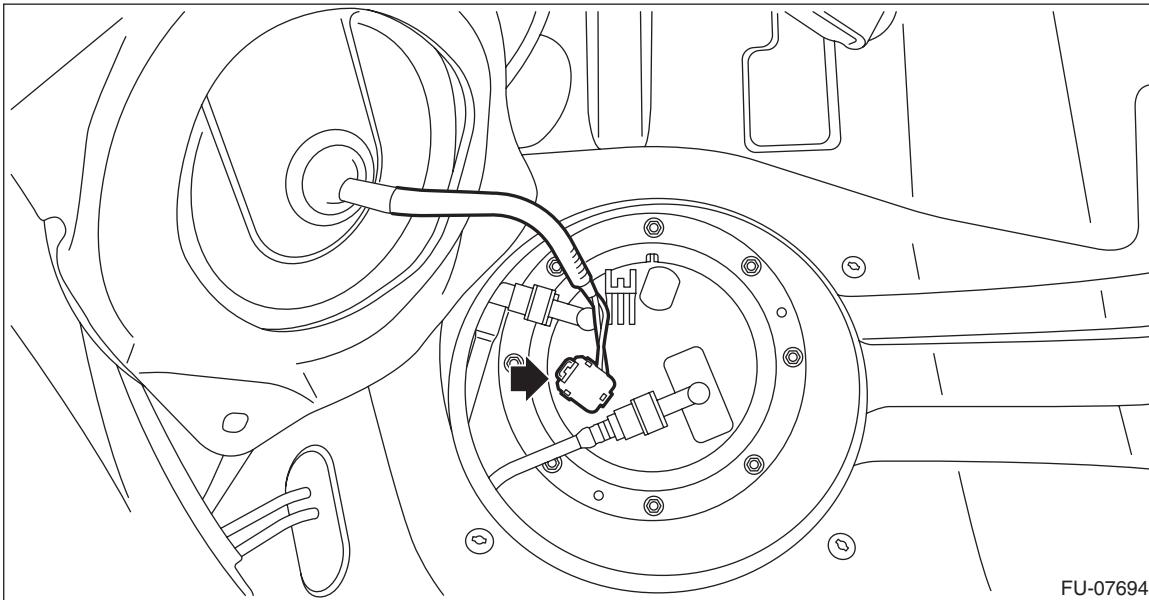
**CAUTION:**

- 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(w/o STI)-146, RELEASING OF FUEL PRESSURE, PROCEDURE, Fuel.>
- 2) Drain fuel. <Ref. to FU(w/o STI)-146, DRAINING FUEL (WITH SUBARU SELECT MONITOR), PROCEDURE, Fuel.>
- 3) Disconnect the ground terminal from battery sensor. <Ref. to NT-5, BATTERY, NOTE, Note.>
- 4) Remove the rear seat cushion. <Ref. to SE-29, REMOVAL, Rear Seat.>
- 5) Remove the service hole cover of fuel pump.



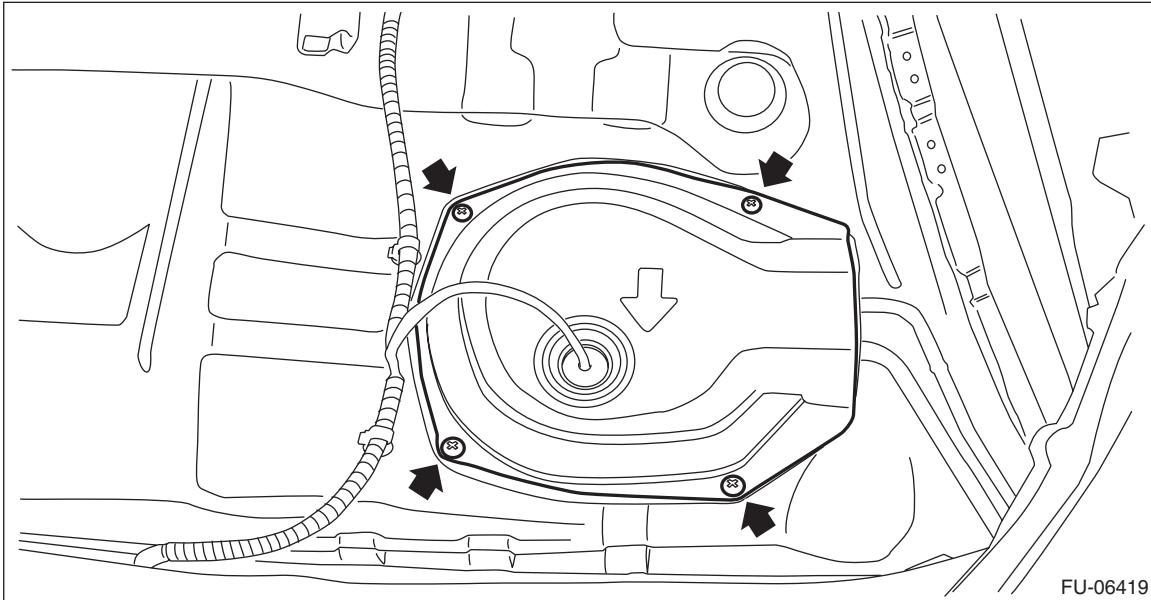
- 6) Disconnect connectors from the fuel pump, and move aside the service hole cover.



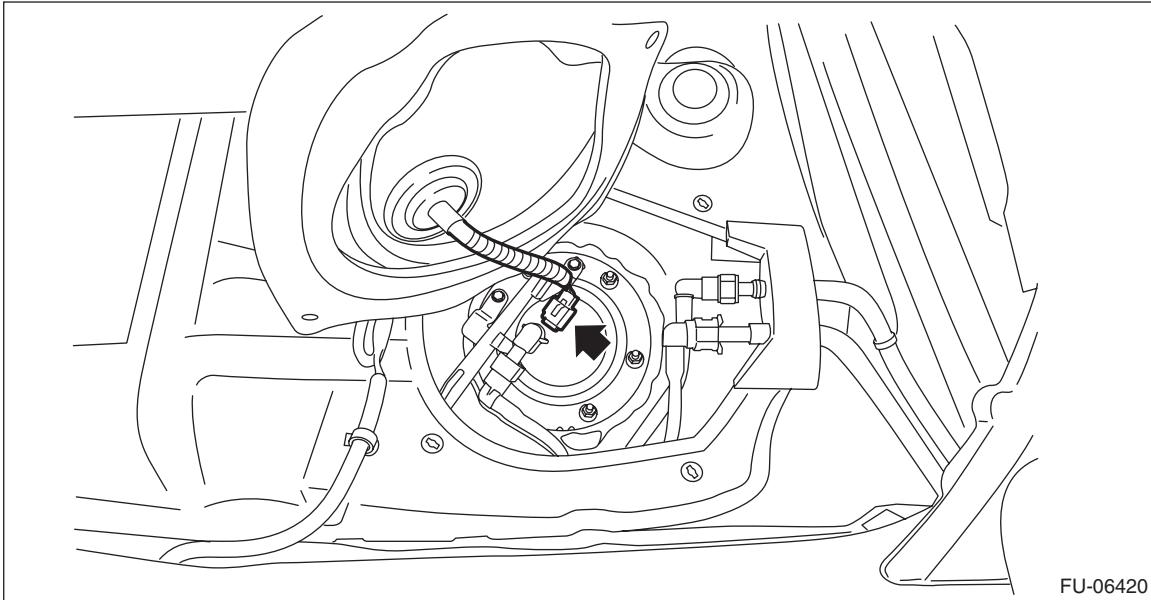
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7) Remove the service hole cover of fuel sub level sensor.



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



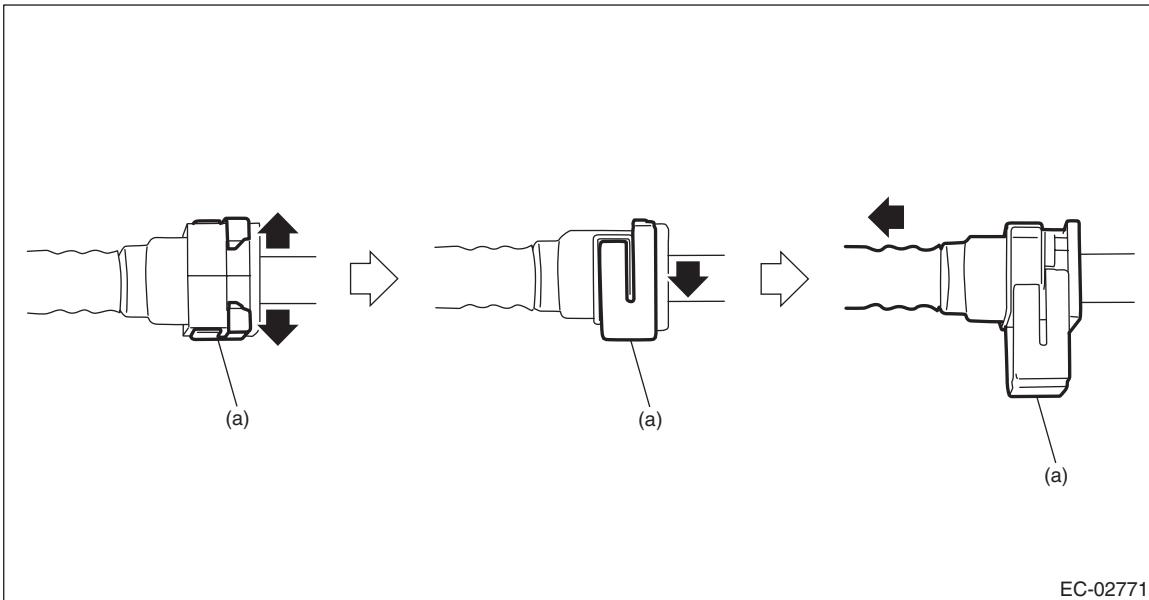
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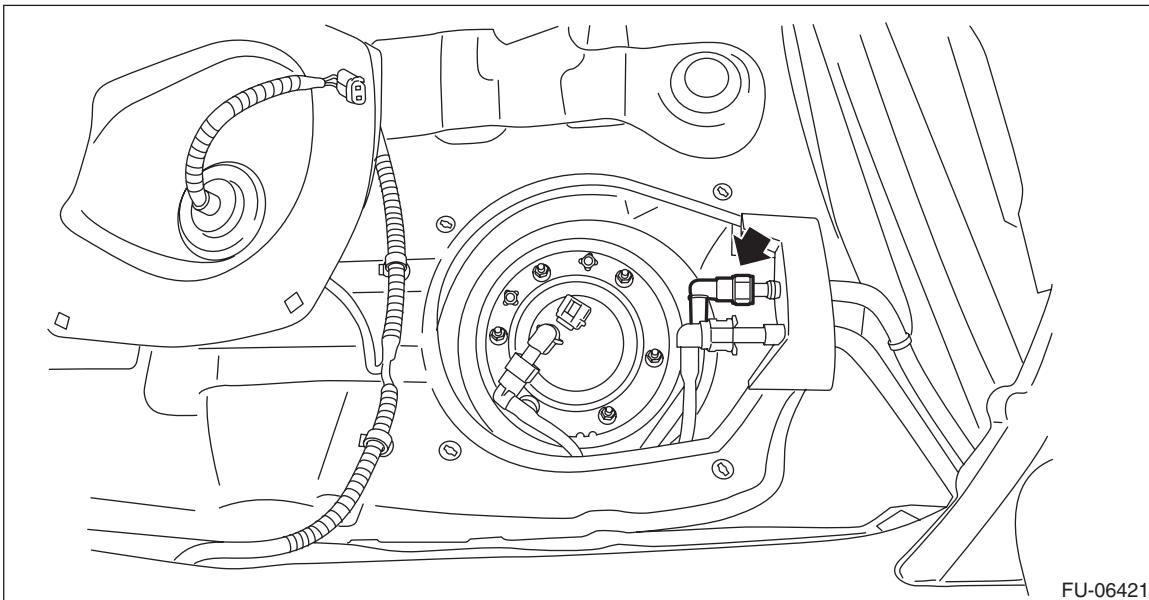
9) Disconnect the quick connector on the fuel delivery tube.

NOTE:

Disconnect the quick connector as shown in the figure.



(a) Slider



10) Lift up the vehicle.

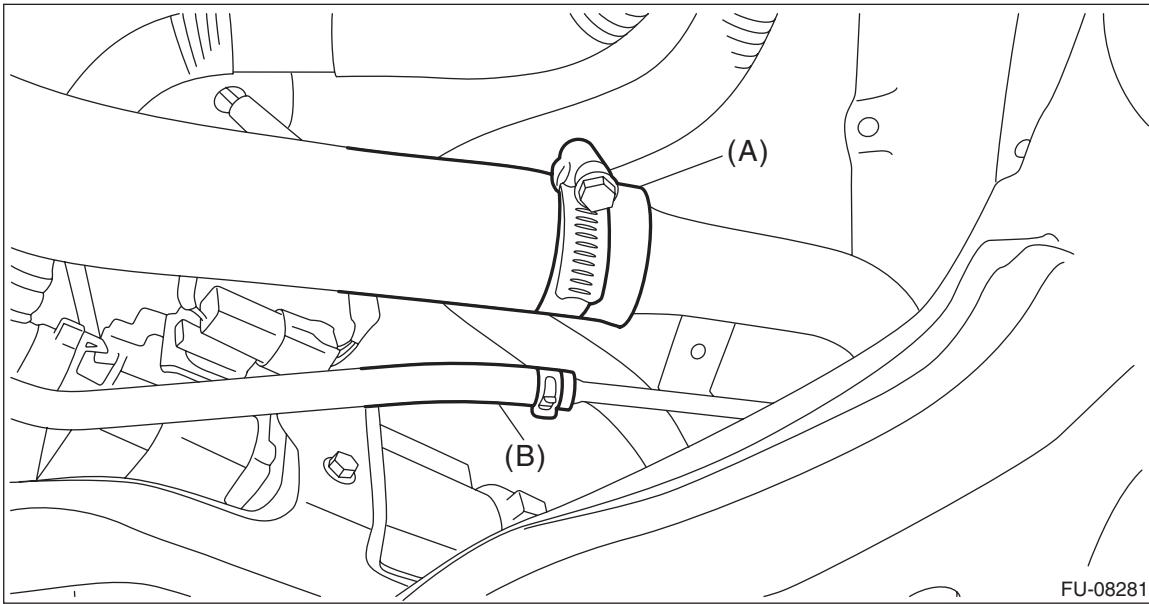
11) Remove the rear exhaust pipe. <Ref. to EX(w/o STI)-50, REMOVAL, Rear Exhaust Pipe.>

12) Remove the rear differential. <Ref. to DI-19, REMOVAL, Rear Differential (T-type).>

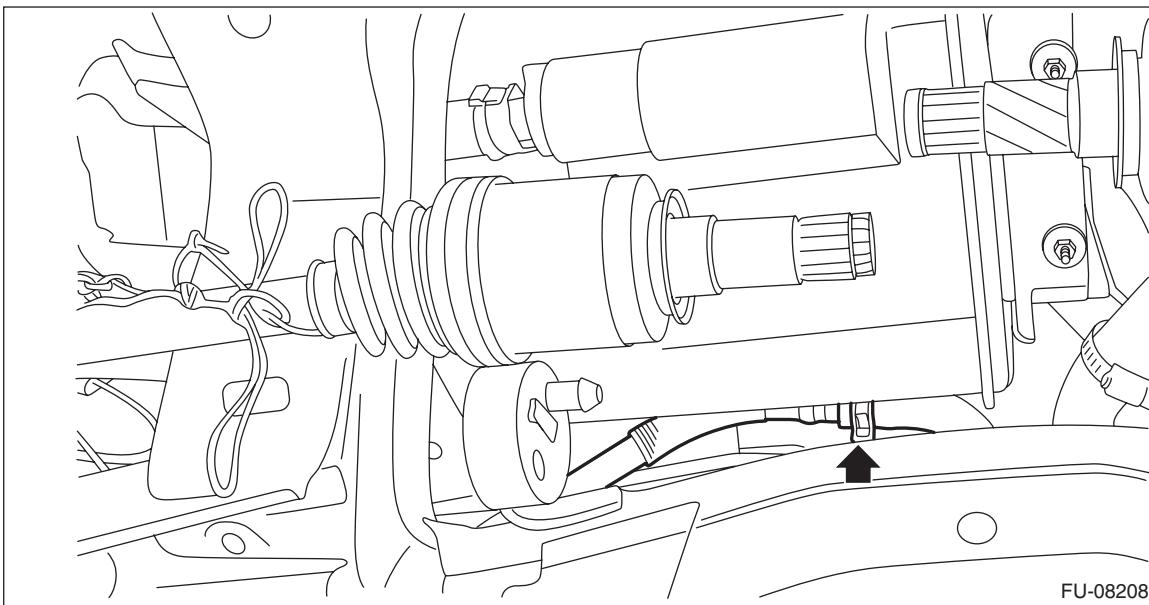
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13) Disconnect the fuel filler hose (A) and evaporation hose (B) from the fuel filler pipe assembly.



14) Disconnect the vent tube from vent hose.

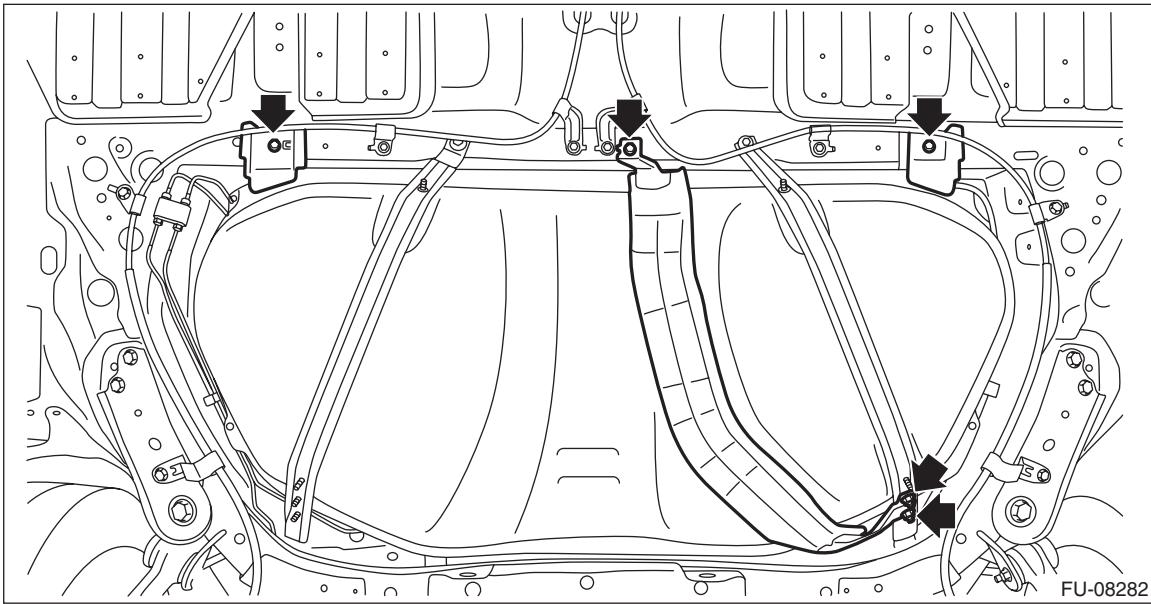


15) Remove the fuel tank protector. <Ref. to FU(w/o STI)-151, REMOVAL, Fuel Tank Protector.>

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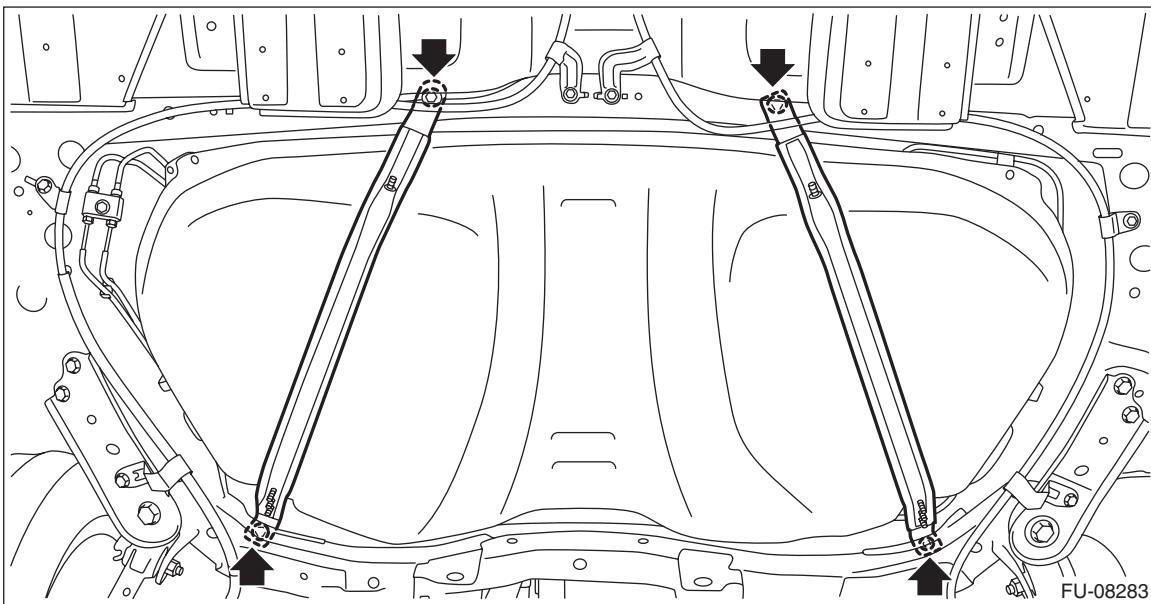
16) Remove the heat shield cover and stopper.



17) 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.

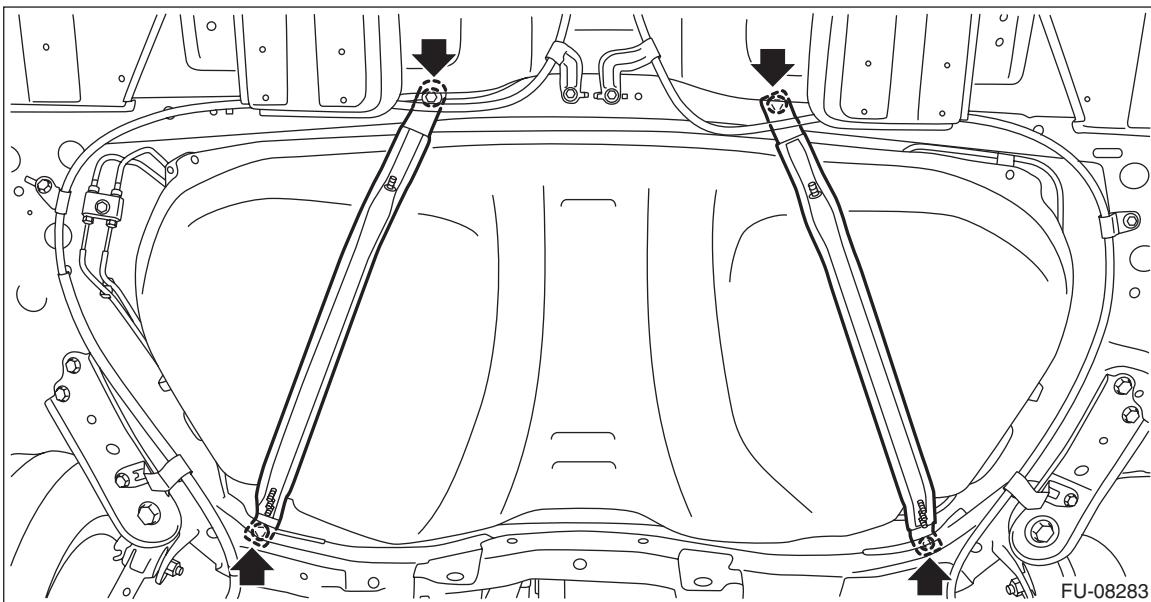


### B: INSTALLATION

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:**

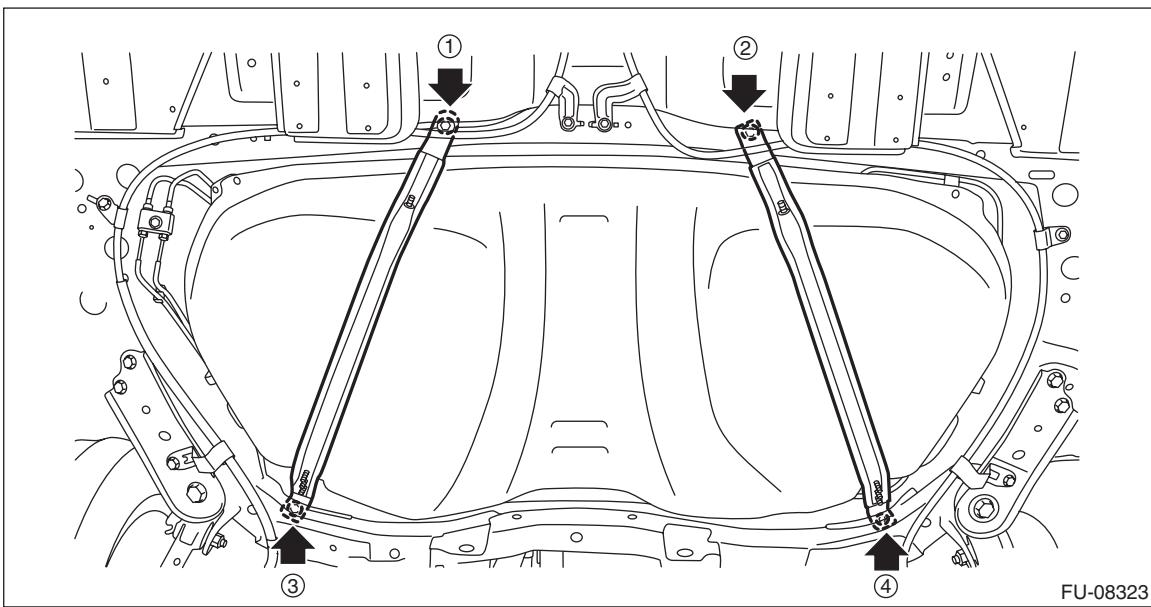
**A helper is required to perform this work.**



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)**



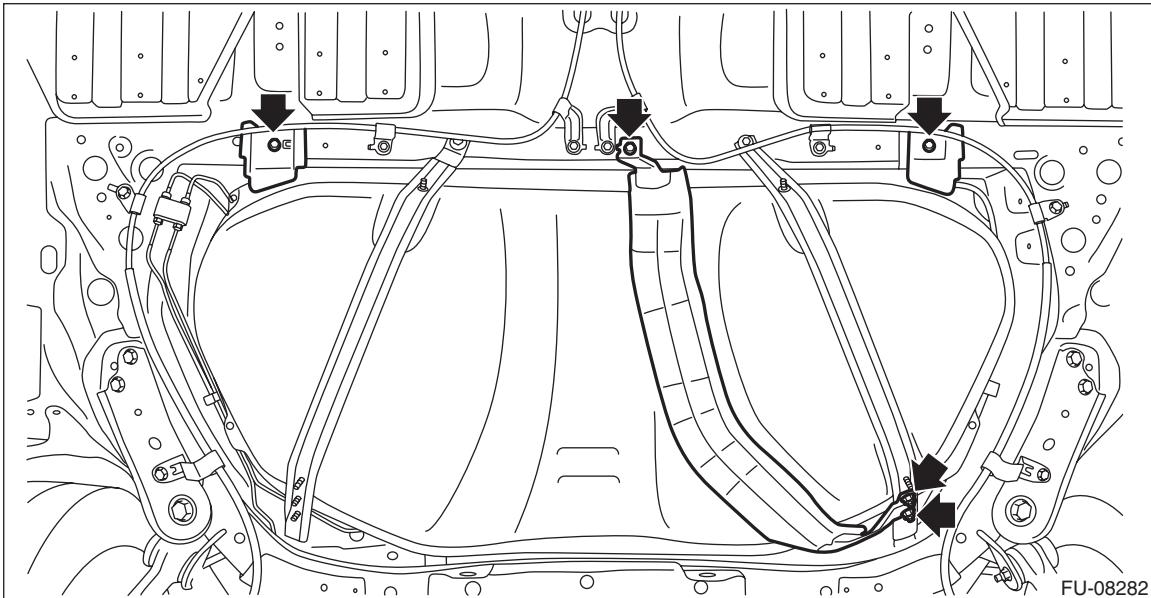
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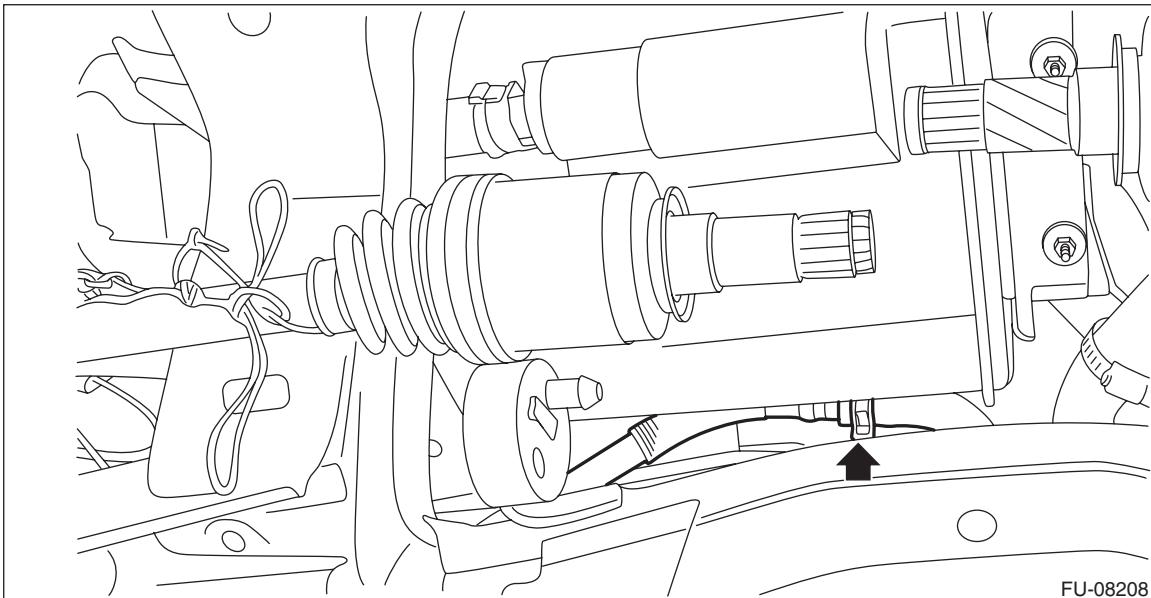
- 3) Install the heat shield cover and stopper.

**Tightening torque:**

18 N·m (1.8 kgf·m, 13.3 ft·lb)



- 4) Install the fuel tank protector. <Ref. to FU(w/o STI)-151, INSTALLATION, Fuel Tank Protector.>
- 5) Connect the vent tube to the vent hose.



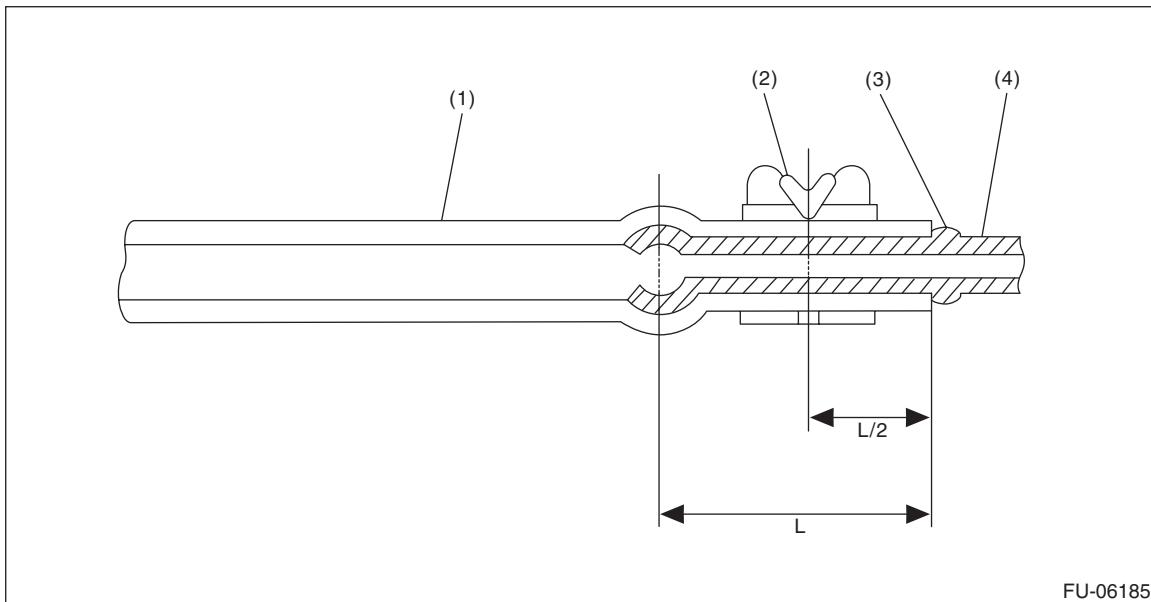
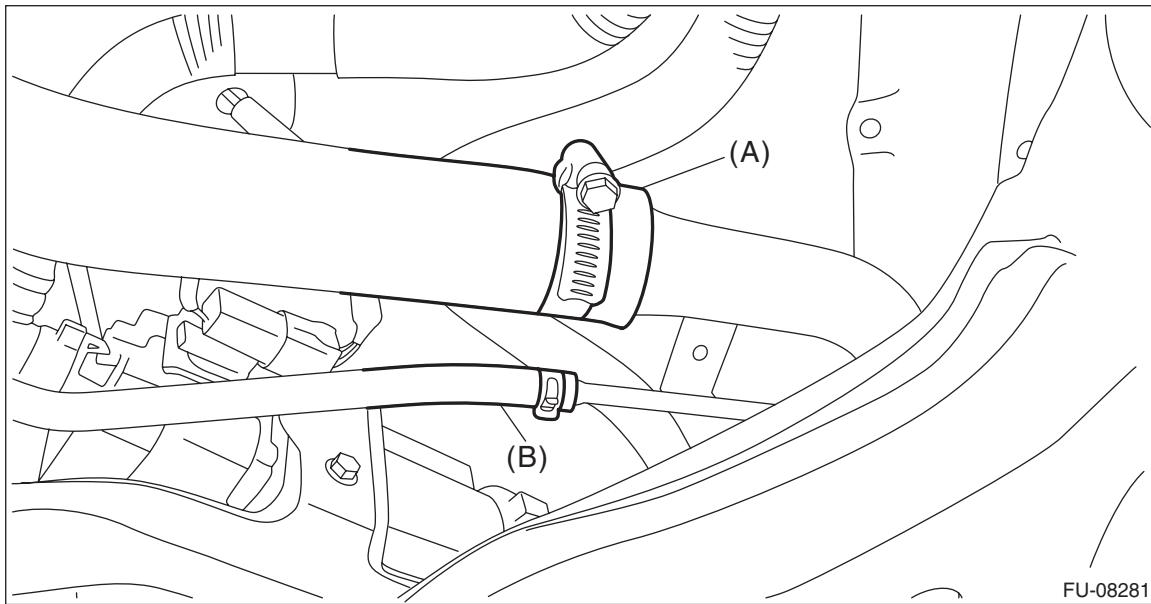
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6) Securely insert the fuel filler hose (A) and evaporation hose (B) until the hose end contacts the spool, then attach the clamp or clip as shown in the figure.

**Tightening torque:**

2.5 N·m (0.3 kgf·m, 1.8 ft-lb)



(1) Hose

(2) Clamp or clip

(3) Spool

(4) Pipe

7) Install the rear differential. <Ref. to DI-21, INSTALLATION, Rear Differential (T-type).>

8) Install the rear exhaust pipe. <Ref. to EX(w/o STI)-51, INSTALLATION, Rear Exhaust Pipe.>

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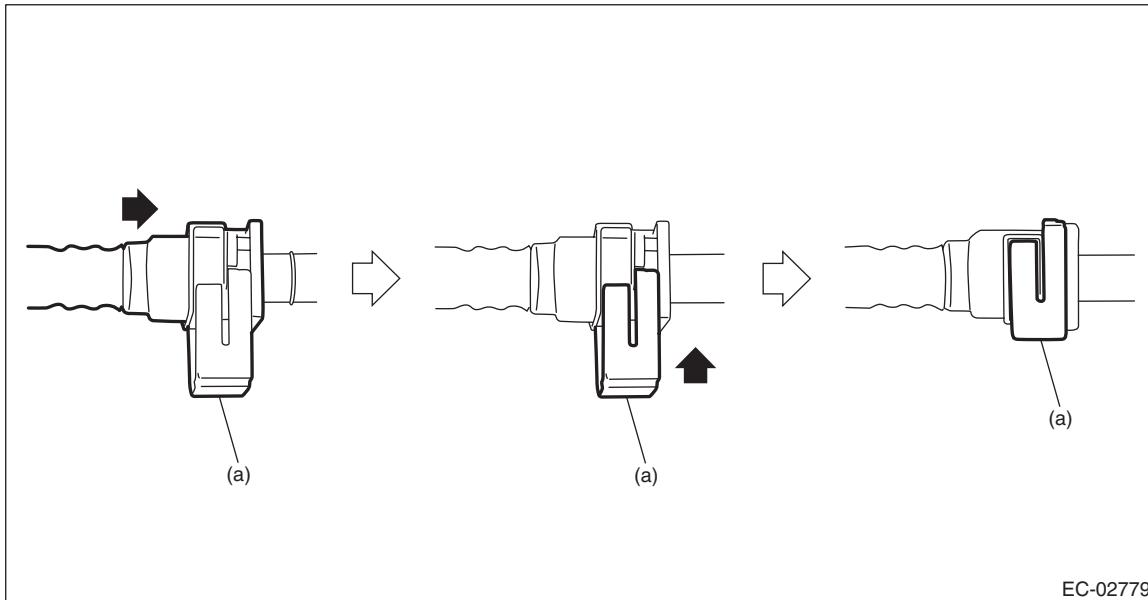
9) Connect the quick connector of the fuel delivery tube.

**CAUTION:**

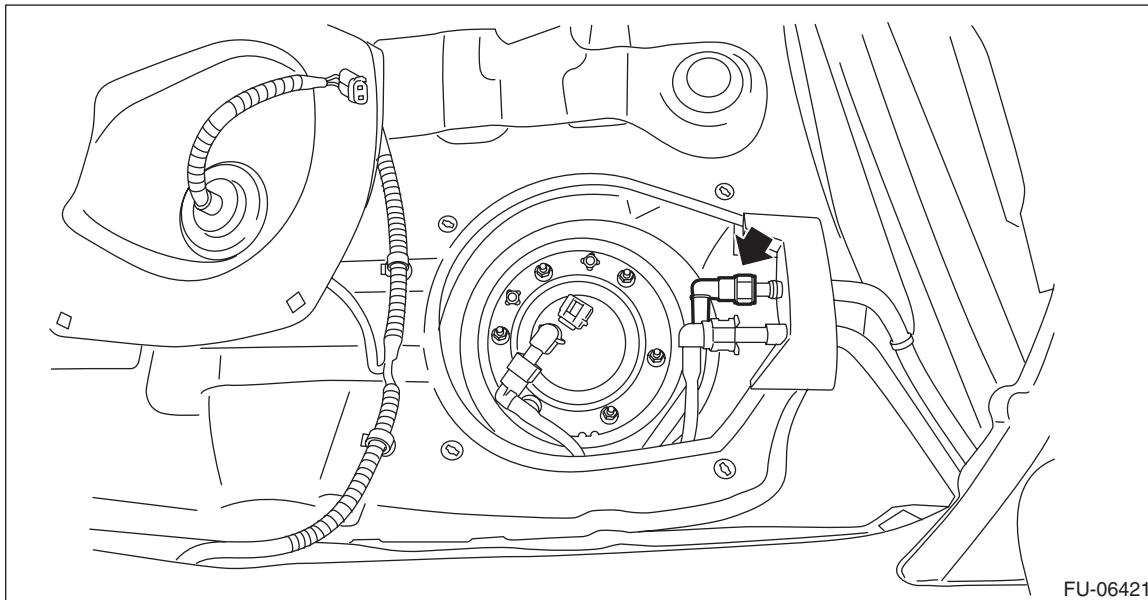
- Check that there is no damage or dust on the quick connector. If necessary, clean the seal surface of the pipe.
- When connecting the quick connector, make sure to insert it all the way in before locking the slider.
- When it is difficult to lock the slider, check that the connector is fully inserted.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

**NOTE:**

Connect the quick connector as shown in the figure.



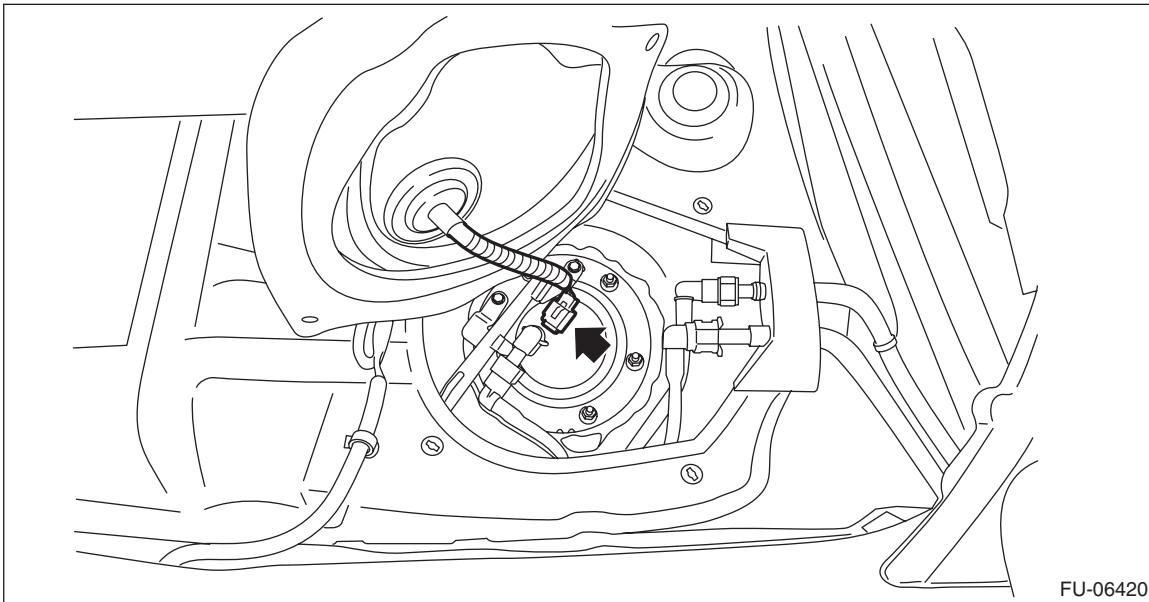
(a) Slider



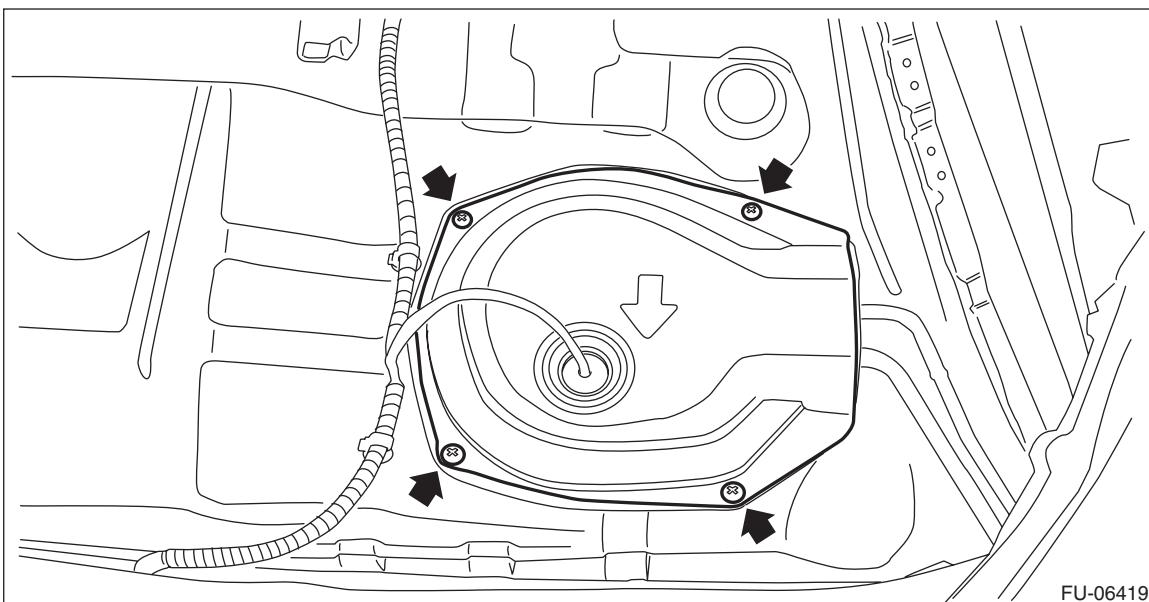
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10) Connect the connector to the fuel sub level sensor.



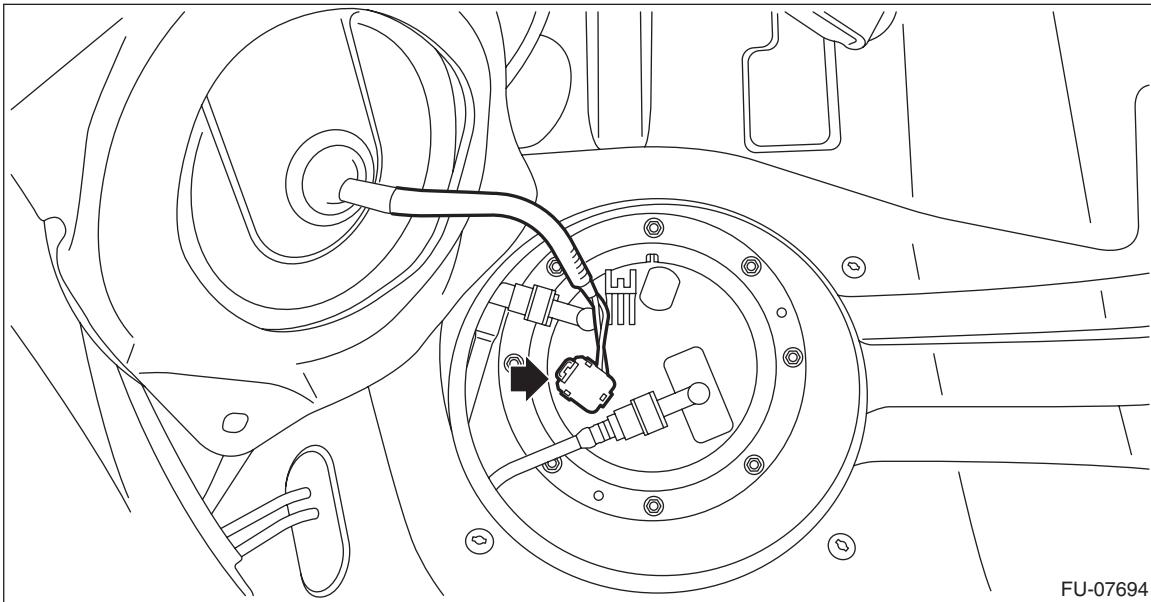
11) Install the service hole cover of fuel sub level sensor.



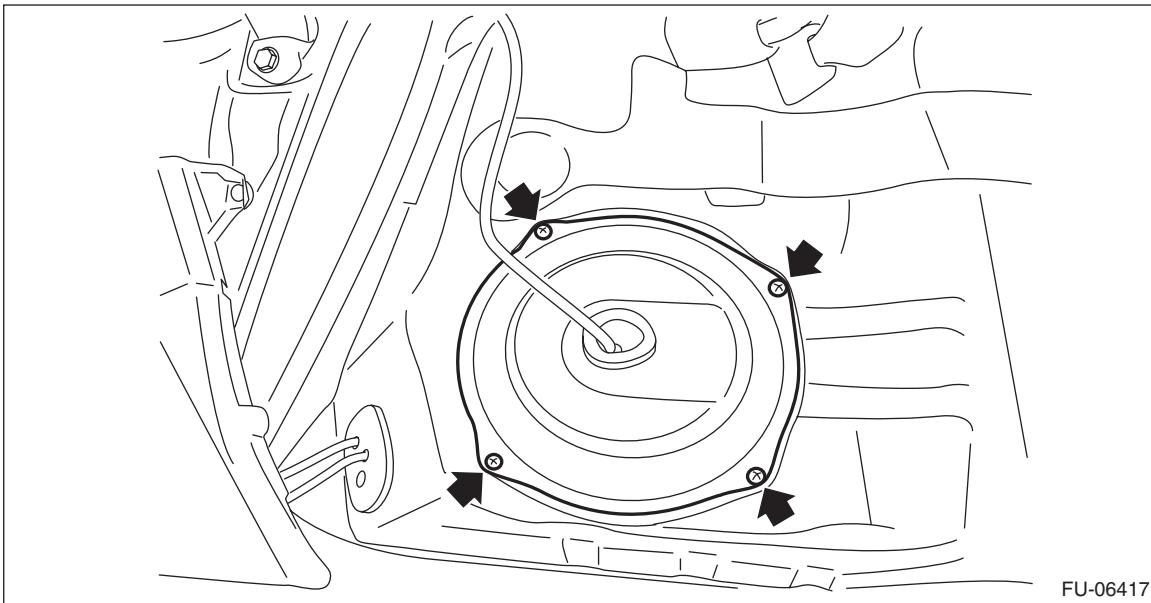
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12) Connect the connector to the fuel pump.



13) Install the service hole cover of fuel pump.



14) Install the rear seat cushion. <Ref. to SE-33, INSTALLATION, Rear Seat.>

15) Connect the ground terminal to battery sensor. <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.