

31. Fuel Sub Level Sensor

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.
- If the fuel gauge indicates that two thirds or more of the fuel is remaining, be sure to drain fuel before starting work to avoid the fuel to spill.

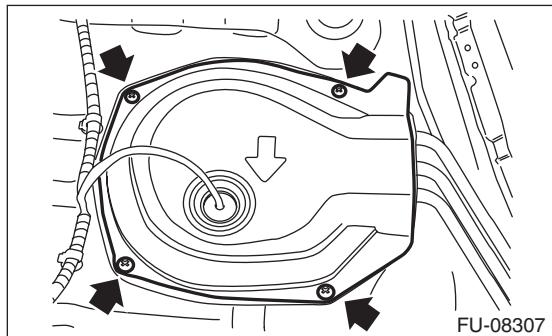
1) Release the fuel pressure. <Ref. to FU(STI)-64, RELEASING OF FUEL PRESSURE, PROCEDURE, Fuel.>

2) Drain fuel. <Ref. to FU(STI)-64, DRAINING FUEL (WITH SUBARU SELECT MONITOR), PROCEDURE, Fuel.>

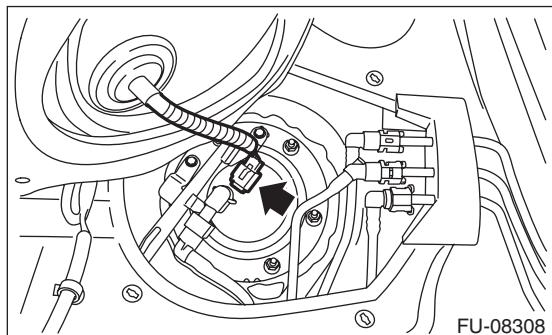
3) Disconnect the ground cable from battery.

4) Remove the rear seat cushion. <Ref. to SE-29, REMOVAL, Rear Seat.>

5) Remove the service hole cover.

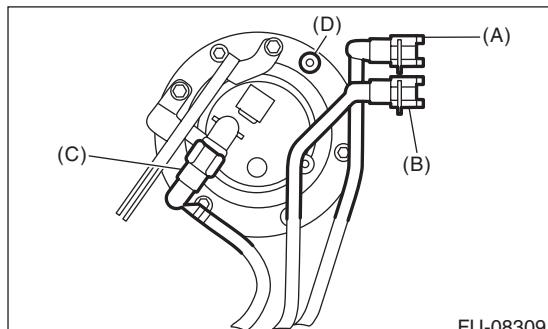


6) Disconnect the connector from the fuel sub level sensor.

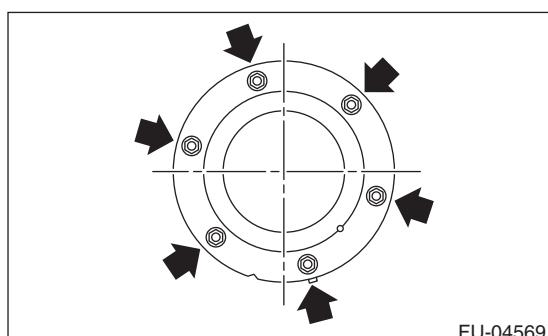
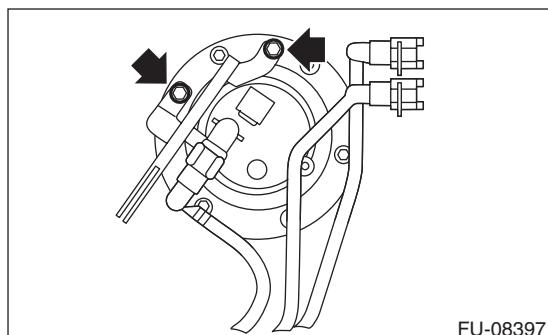


7) Disconnect the quick connectors of fuel delivery tube (A), fuel return tube (B), and jet pump tube (C). <Ref. to FU(STI)-94, REMOVAL, Fuel Delivery, Return and Evaporation Lines.>

8) Remove the rubber cap (D) from the nut.



9) Remove the bolts and nuts which hold fuel sub level sensor protector and fuel sub level sensor upper plate to the fuel tank.



10) Remove the fuel sub level sensor from the fuel tank.

Fuel Sub Level Sensor

FUEL INJECTION (FUEL SYSTEMS)

B: INSTALLATION

Install in the reverse order of removal while being careful of the following.

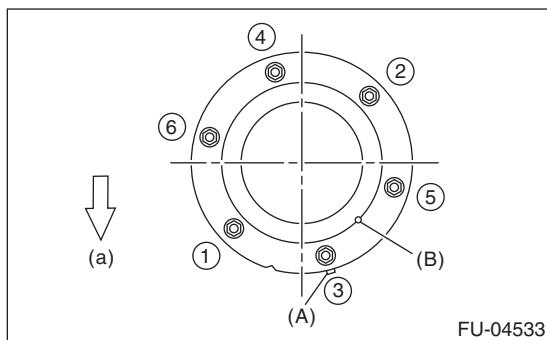
- Make sure the sealing portion is free from fuel or foreign matter before installation.
- Align protrusion (A) of the gasket to the position shown in the figure.
- Align protrusion (B) of the fuel sub level sensor to the cutout in the fuel sub level sensor upper plate.
- Tighten the nuts and bolts to the specified torque in the order as shown in the figure.
- After tightening, install the rubber cap (C) at the position shown in the figure.

NOTE:

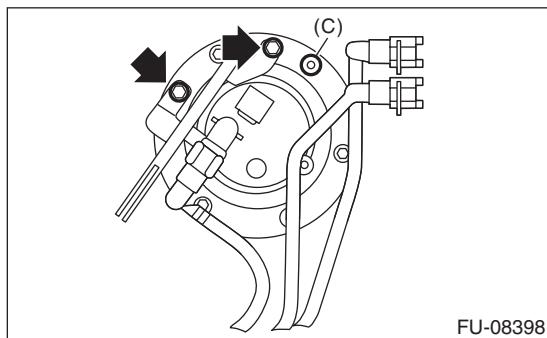
- Use a new gasket.
- Do not forget to install rubber cap (C).

Tightening torque:

4.4 N·m (0.4 kgf·m, 3.2 ft-lb)

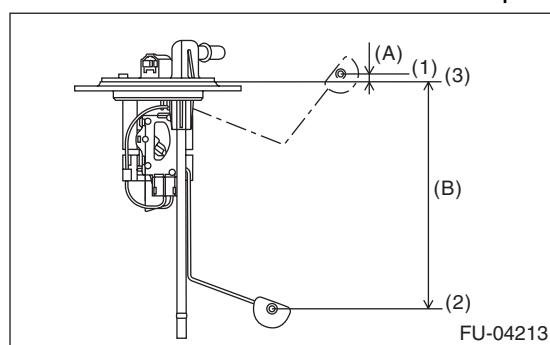


(a) Front side of vehicle



C: INSPECTION

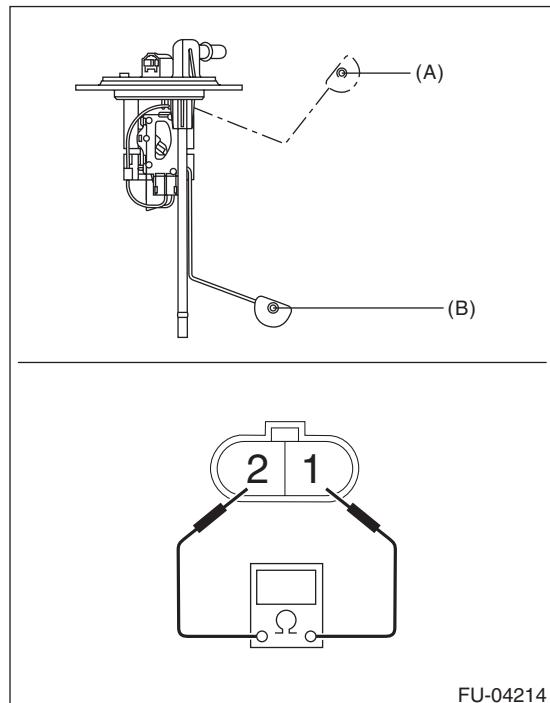
- 1) Check that the fuel sub level sensor has no damage.
- 2) Measure the fuel sub level sensor float position.



- (1) FULL
- (2) EMPTY
- (3) Datum points

Float position	Standard
FULL to Datum point (A)	5.31 ± 3.5 mm (0.209 ± 0.138 in)
EMPTY to Datum point (B)	160.6 ± 3.5 mm (6.323 ± 0.138 in)

- 3) Measure the resistance between fuel sub level sensor terminals.



Float position	Terminal No.	Standard
FULL (A)	1 and 2	$8.7 \pm 1.0 \Omega$
EMPTY (B)		$270.9 \pm 4.0 \Omega$