

24. Fuel Tank

A: REMOVAL

WARNING:

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

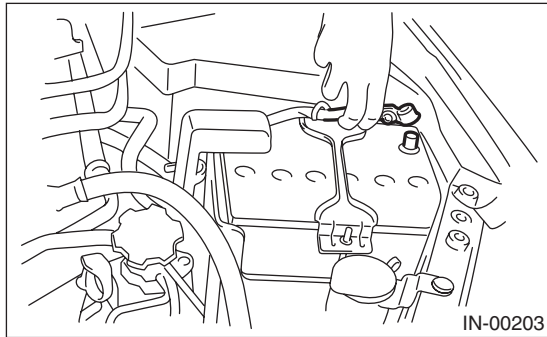
CAUTION:

- 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)-65, RELEASING OF FUEL PRESSURE, PROCEDURE, Fuel.>

2) Drain fuel. <Ref. to FU(w/o STI)-65, DRAINING FUEL (WITH SUBARU SELECT MONITOR), PROCEDURE, Fuel.>

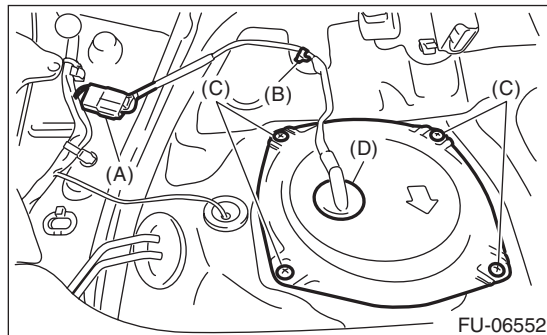
3) Disconnect the ground cable from battery.



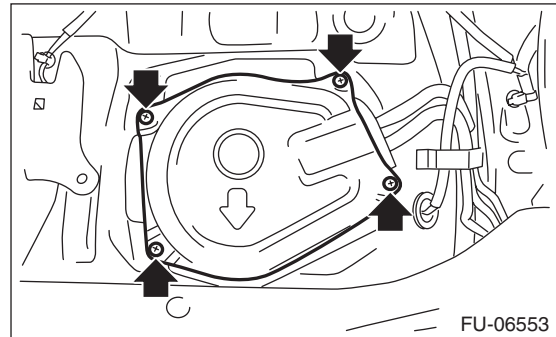
4) Remove the rear seat cushion. <Ref. to SE-13, REMOVAL, Rear Seat.>

5) Remove the service hole cover of fuel pump.

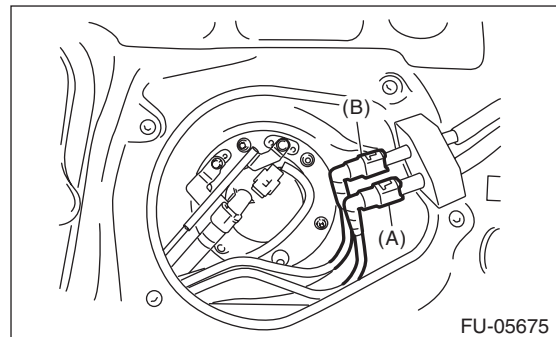
- (1) Disconnect fuel pump connector (A), and remove clip (B).
- (2) Remove the screw (C).
- (3) Push the grommet (D) down and remove the service hole cover.



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



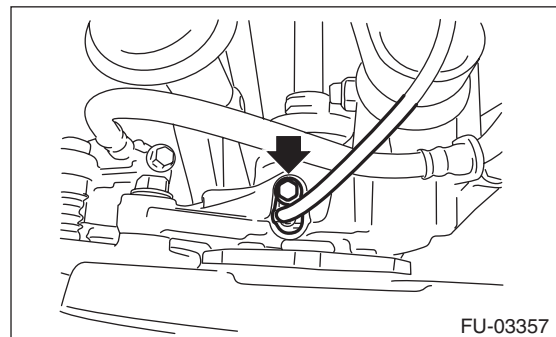
7) Disconnect the quick connector of fuel delivery tube (A) and fuel return tube (B). <Ref. to FU(w/o STI)-89, REMOVAL, Fuel Delivery, Return and Evaporation Lines.>



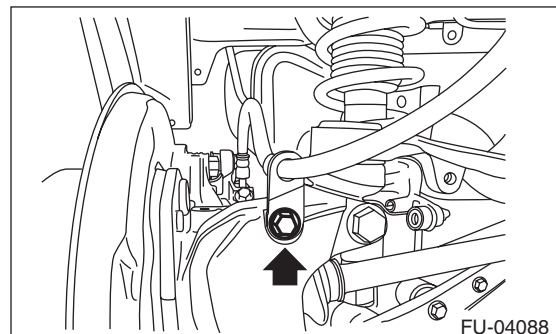
8) Remove the rear wheels.

9) Lift up the vehicle.

10) Remove the rear ABS wheel speed sensor from the rear housing.



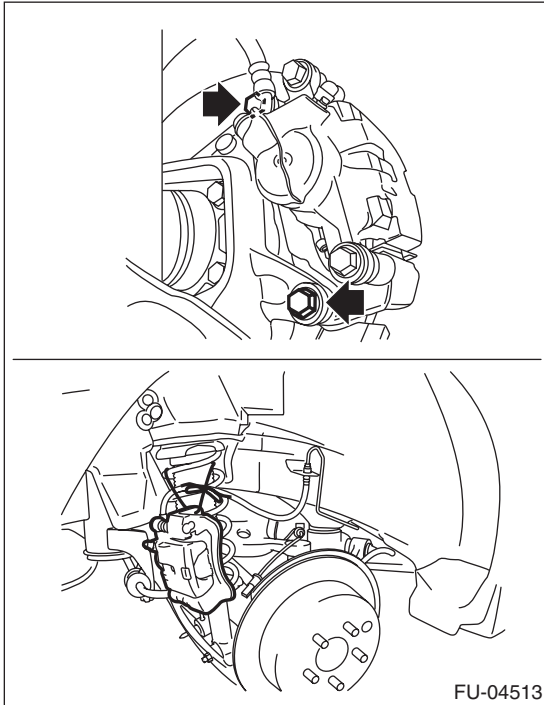
11) Remove the rear brake hose bracket from rear housing.



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FUEL INJECTION (FUEL SYSTEMS)

12) Remove the rear disc brake assembly and tie it to the body side of the vehicle.



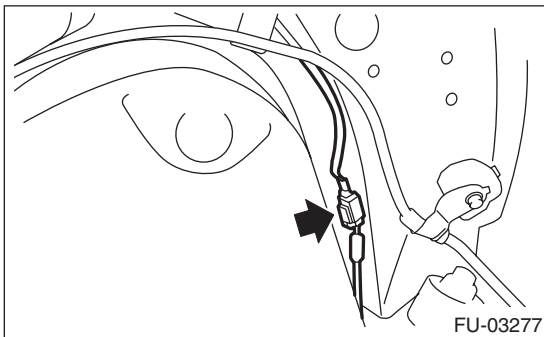
13) Remove the parking brake cable from parking brake assembly. <Ref. to PB-6, REMOVAL, Parking Brake Assembly (Rear Disc Brake).>

14) Remove the rear exhaust pipe and muffler. <Ref. to EX(STI)-13, REMOVAL, Rear Exhaust Pipe.> <Ref. to EX(STI)-15, REMOVAL, Muffler.>

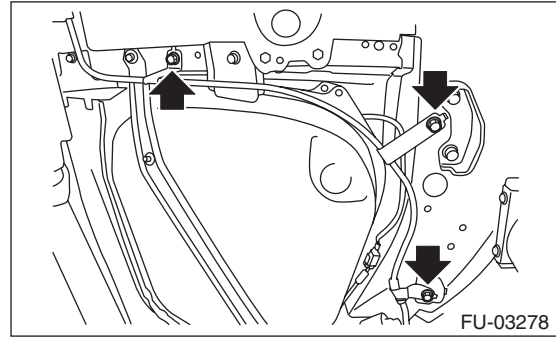
15) Remove the propeller shaft. <Ref. to DS-11, REMOVAL, Propeller Shaft.>

16) Remove the heat shield cover and fuel tank protector.

17) Disconnect the connector from the rear ABS wheel speed sensor.



18) Remove the parking brake cable clamp from the body.



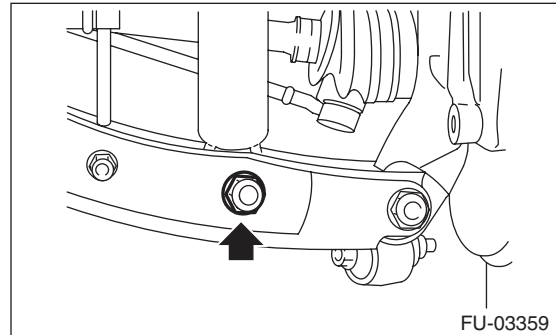
19) Remove the rear suspension assembly.

WARNING:

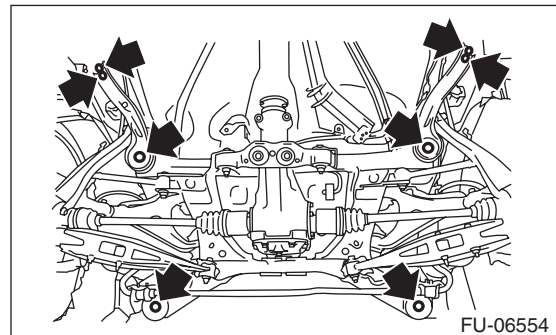
A helper is required to perform this work.

(1) Support the rear differential with the transmission jack.

(2) Remove the bolt and nut which secure rear shock absorber to rear suspension arm.



(3) Remove the bolts which secure the rear suspension assembly to the body.

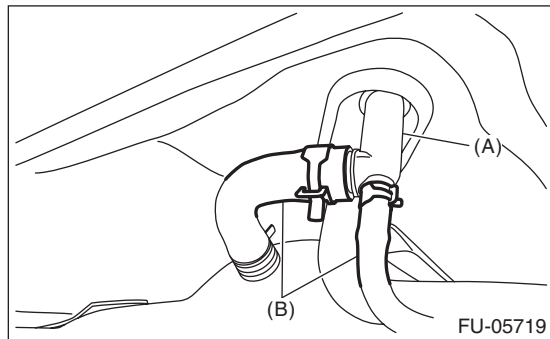


(4) Remove the rear suspension assembly.

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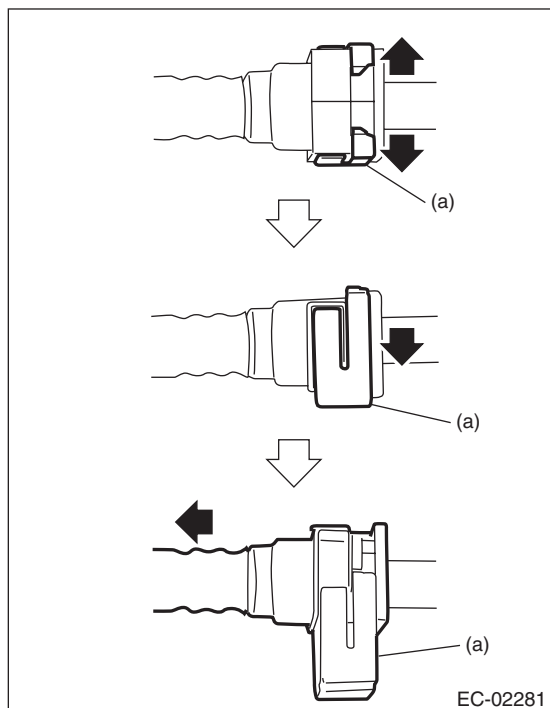
20) Disconnect the evaporation hose (B) from hose connector (A).



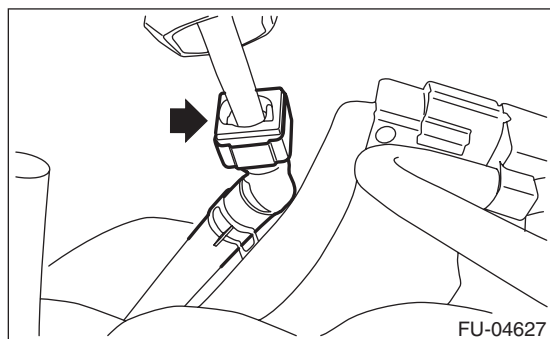
21) Disconnect the quick connector of the evaporation hose from the evaporation pipe.

NOTE:

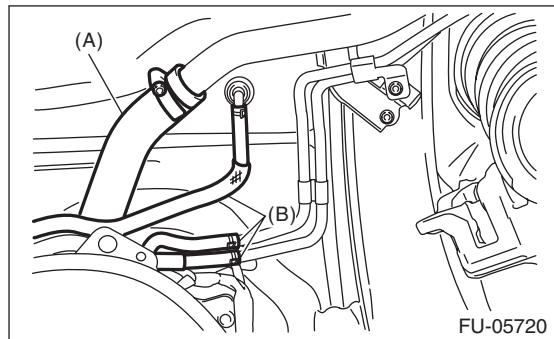
Disconnect the quick connector as shown in the figure.



(a) Retainer



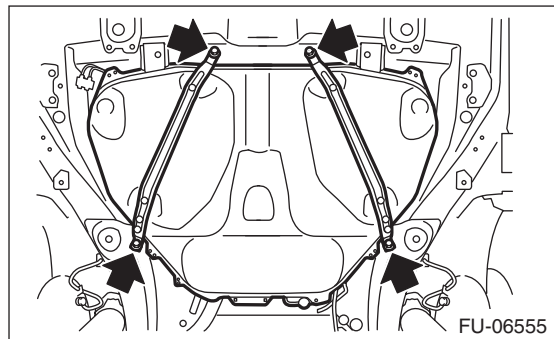
22) Disconnect the fuel filler hose (A) and evaporation hose (B).



23) Support the fuel tank with a transmission jack, remove 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.

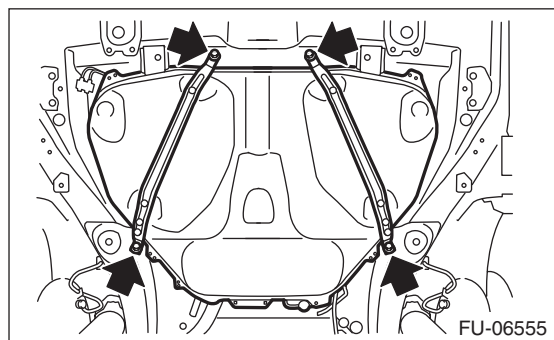


B: INSTALLATION

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

WARNING:

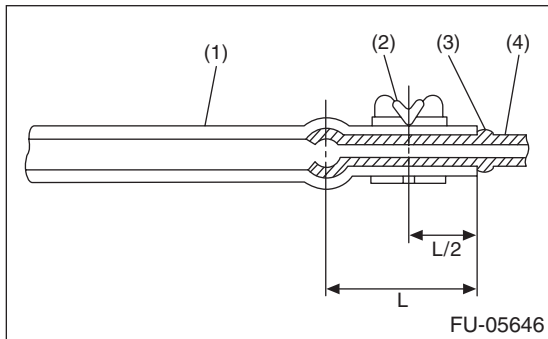
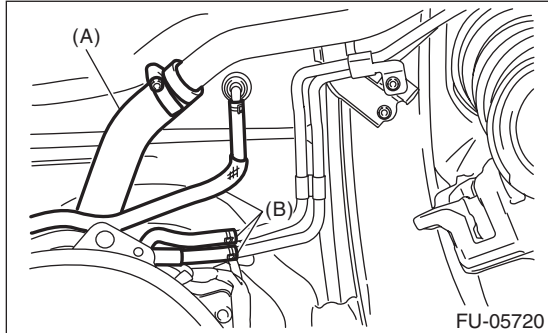
A helper is required to perform this work.



2) 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)

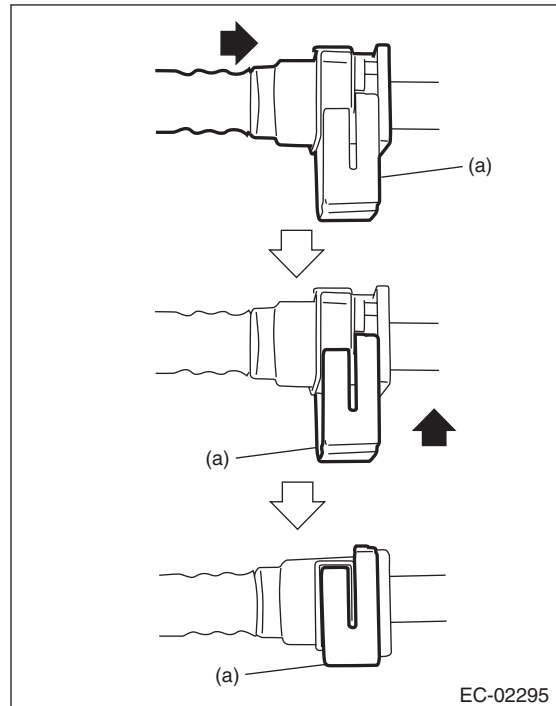


- (1) Hose
- (2) Clamp or clip
- (3) Spool
- (4) Pipe

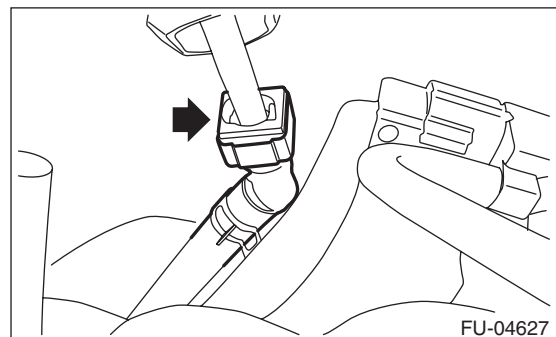
3) Connect the quick connector of the evaporation hose to the evaporation pipe.

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, securely insert the pipe all the way before locking the retainer.
- When it is difficult to lock the retainer, make sure that the pipe is securely inserted.
- Make sure that the quick connector is securely connected.



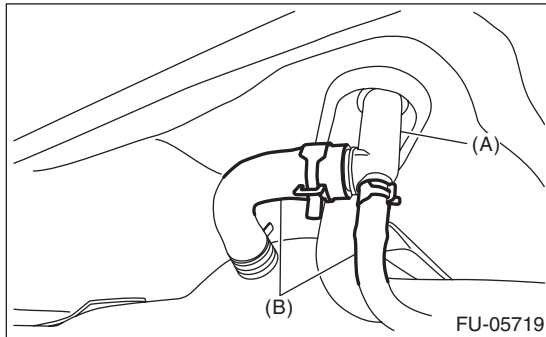
(a) Retainer



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FUEL INJECTION (FUEL SYSTEMS)

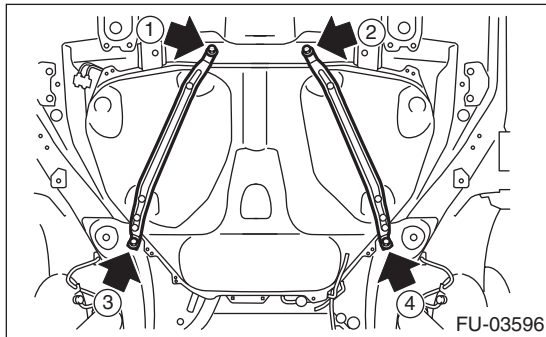
- 4) Connect the evaporation hose (B) to hose connector (A).



- 5) 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)



- 6) Install the rear suspension assembly.

WARNING:

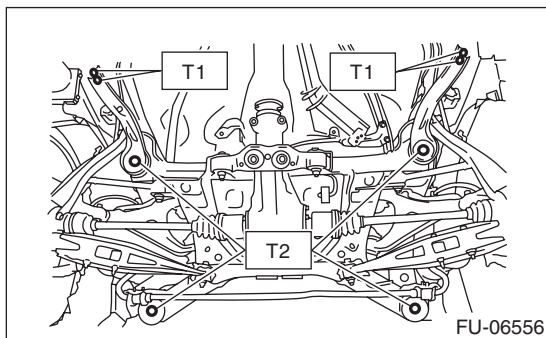
A helper is required to perform this work.

- (1) Support the rear differential with the transmission jack.
(2) Support the rear suspension assembly and install the rear suspension assembly to the body.

Tightening torque:

T1: 70 N·m (7.1 kgf-m, 51.6 ft-lb)

T2: 145 N·m (14.8 kgf-m, 106.9 ft-lb)



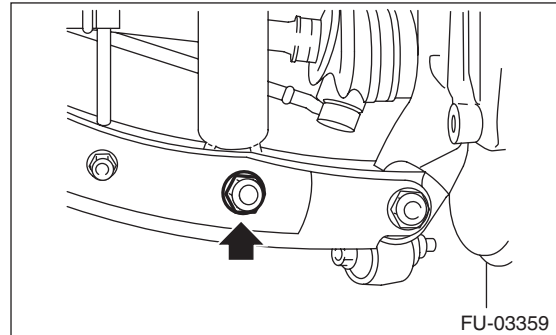
- (3) Install the rear shock absorber to the rear suspension arm.

NOTE:

Use a new self-locking nut.

Tightening torque:

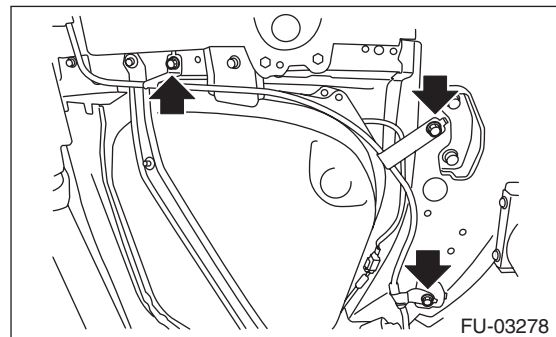
80 N·m (8.2 kgf-m, 59.0 ft-lb)



- 7) Install the parking brake cable clamp to the body.

Tightening torque:

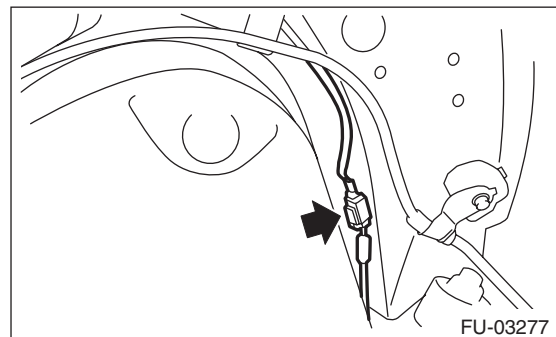
18 N·m (1.8 kgf-m, 13.3 ft-lb)



- 8) Connect the connector to the rear ABS wheel speed sensor.

NOTE:

Prevent the harness identification (line) from being twisted when installing. (RH: White line, LH: Yellow line)



- 9) Install the heat shield cover.

Tightening torque:

18 N·m (1.8 kgf-m, 13.3 ft-lb)

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10) Install the fuel tank protector.

NOTE:

Use a new self-locking nut.

Tightening torque:

Nut: 9 N·m (0.9 kgf-m, 6.6 ft-lb)

Bolt: 18 N·m (1.8 kgf-m, 13.3 ft-lb)

11) Install the propeller shaft. <Ref. to DS-12, INSTALLATION, Propeller Shaft.>

12) Install the rear exhaust pipe and muffler. <Ref. to EX(STI)-13, INSTALLATION, Rear Exhaust Pipe.> <Ref. to EX(STI)-15, INSTALLATION, Muffler.>

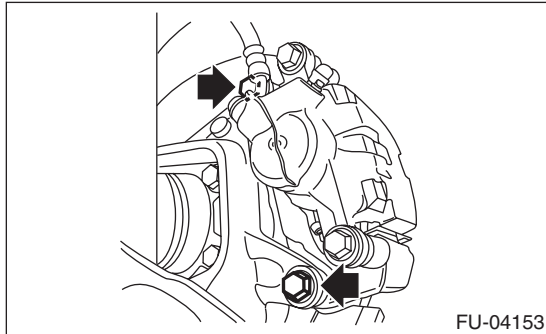
13) Lower the vehicle.

14) Connect the parking brake cable to the parking brake assembly. <Ref. to PB-7, INSTALLATION, Parking Brake Assembly (Rear Disc Brake).>

15) Install the rear disc brake assembly.

Tightening torque:

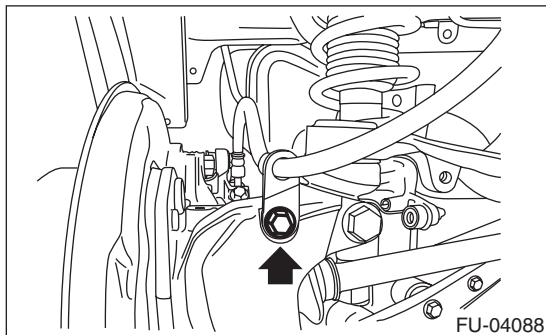
66 N·m (6.7 kgf-m, 48.7 ft-lb)



16) Install the rear brake hose bracket to the rear housing.

Tightening torque:

33 N·m (3.4 kgf-m, 24.3 ft-lb)



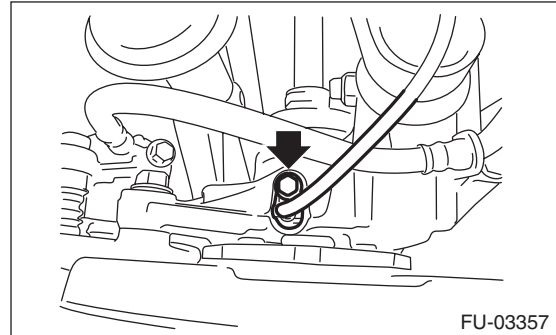
17) Attach the rear ABS wheel speed sensor to the rear housing.

NOTE:

Prevent the harness identification (line) from being twisted when installing. (RH: White line, LH: Yellow line)

Tightening torque:

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)



18) Install the rear wheels.

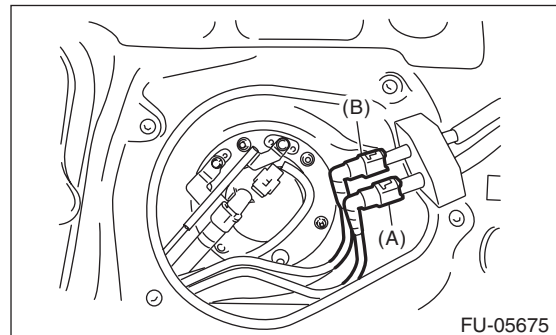
Tightening torque:

100 N·m (10.2 kgf-m, 73.8 ft-lb)

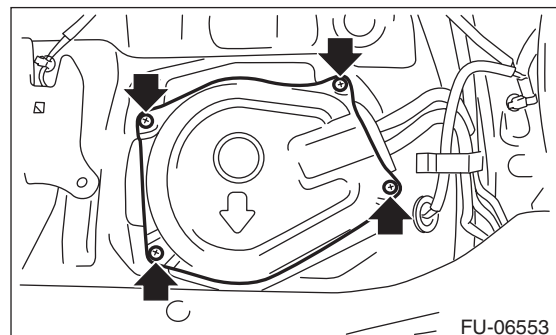
19) Connect the quick connector of fuel delivery tube (A) and fuel return tube (B). <Ref. to FU(w/o STI)-92, INSTALLATION, Fuel Delivery, Return and Evaporation Lines.>

NOTE:

When connecting, be careful not to reverse the delivery side and return side.



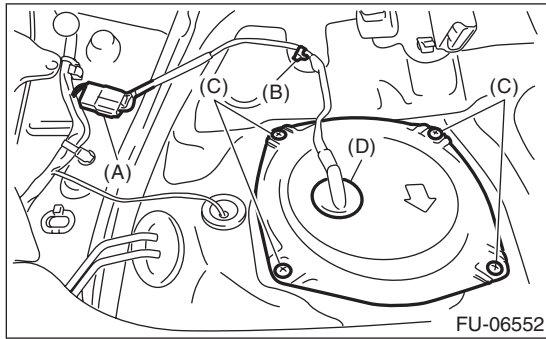
20) Install the service hole cover of fuel sub level sensor.



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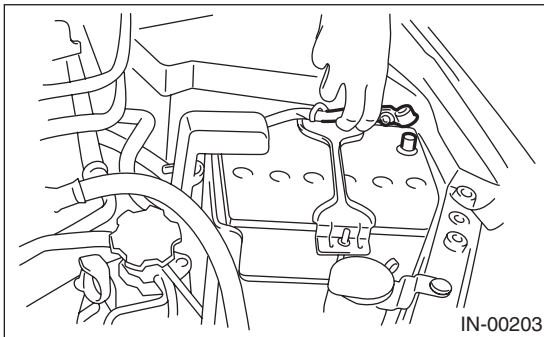
21) Attach the service hole cover of the fuel pump, and attach the connector and clip.



- (A) Connector
- (B) Clip
- (C) Screw
- (D) Grommet

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

23) Connect the battery ground terminal.



24) Inspect the wheel alignment and adjust if necessary.

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.