

24. Fuel Tank

A: REMOVAL

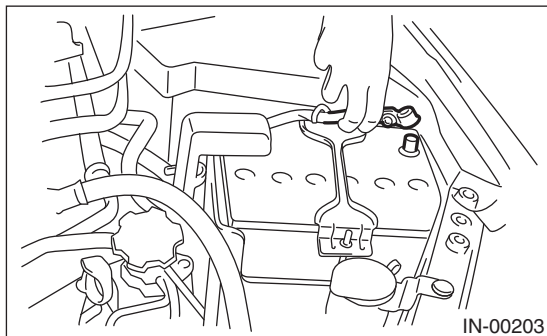
WARNING:

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

CAUTION:

Be careful not to spill fuel.

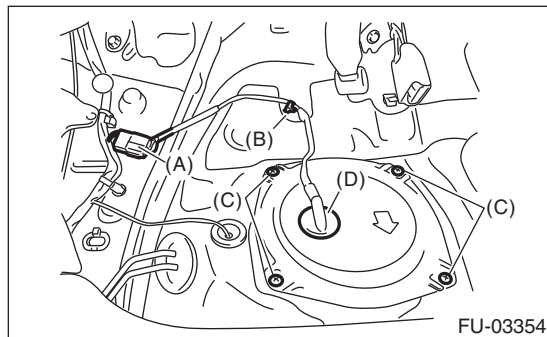
- 1) Set the vehicle on a lift.
- 2) Release the fuel pressure. <Ref. to FU(H4DOTC)-51, RELEASING OF FUEL PRESSURE, PROCEDURE, Fuel.>
- 3) Drain fuel from fuel tank.
<Ref. to FU(H4DOTC)-51, DRAINING FUEL (WITH SUBARU SELECT MONITOR), PROCEDURE, Fuel.>
- 4) Disconnect the ground cable from the battery.



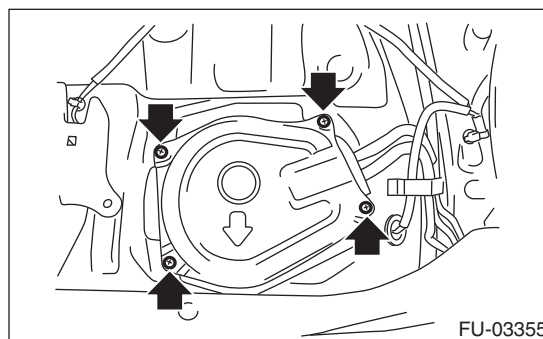
- 5) Remove the rear seat cushion. <Ref. to SE-15, REMOVAL, Rear Seat.>

- 6) Remove the service hole cover of fuel pump.

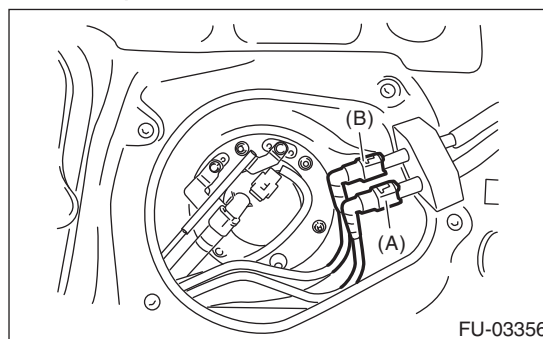
- (1) Separate fuel pump connector (A), and remove clip (B).
- (2) Remove bolt (C).
- (3) Push the grommet (D) down and remove the service hole cover.



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



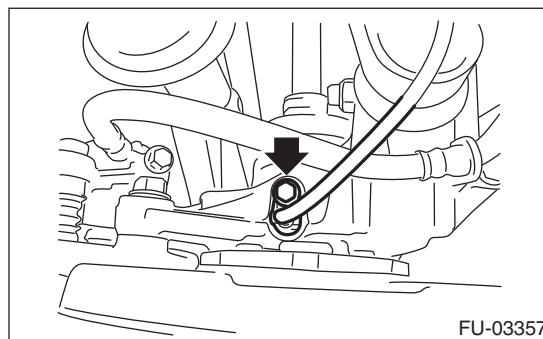
- 8) Disconnect the quick connector of fuel delivery tube (A) and fuel return tube (B). <Ref. to FU(H4DOTC)-72, REMOVAL, Fuel Delivery, Return and Evaporation Lines.>



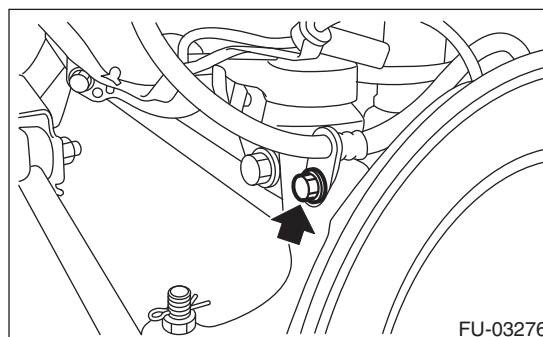
- 9) Remove the rear wheels.

- 10) Lift up the vehicle

- 11) Remove the rear ABS wheel speed sensor from the rear housing.



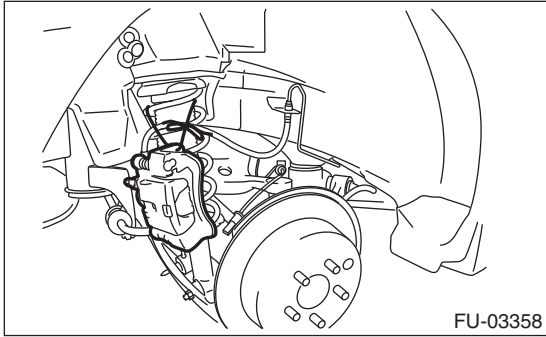
- 12) Remove the bolt holding the rear brake hose bracket.



Fuel Tank

FUEL INJECTION (FUEL SYSTEMS)

13) Remove the rear brake caliper and tie it to the body side of the vehicle.



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

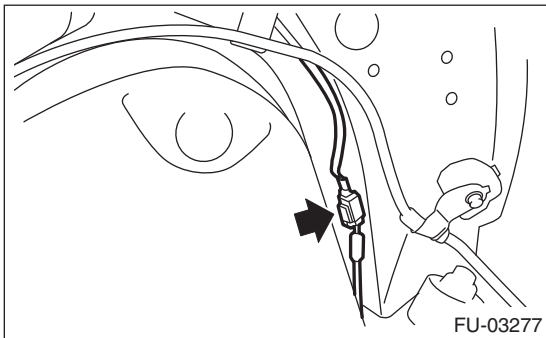
15) Remove the rear exhaust pipe.

<Ref. to EX(H4DOTC)-12, REMOVAL, Rear Exhaust Pipe.>

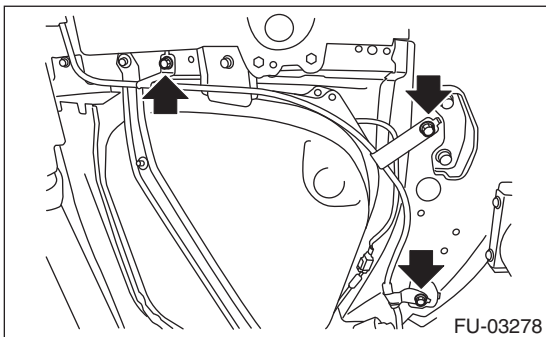
16) Remove the propeller shaft. <Ref. to DS-10, REMOVAL, Propeller Shaft.>

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

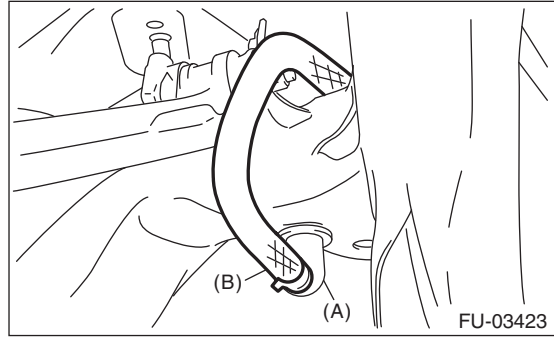
18) Disconnect the connector from the rear ABS wheel speed sensor.



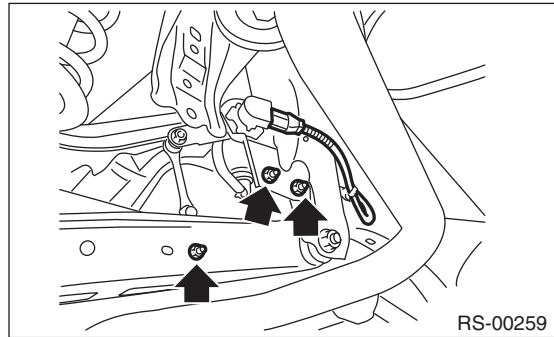
19) Remove the bolts securing the parking brake cable clamp.



20) Disconnect drain hose (B) from the canister drain connector (A).



21) Disconnect the connector, remove the nuts, and then remove the rear vehicle height sensor. (models with auto headlight beam leveler, left side only)

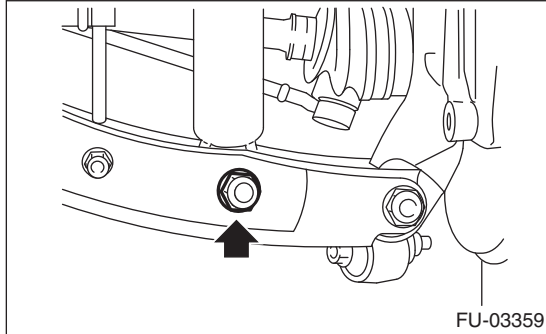


22) Remove the rear suspension assembly.

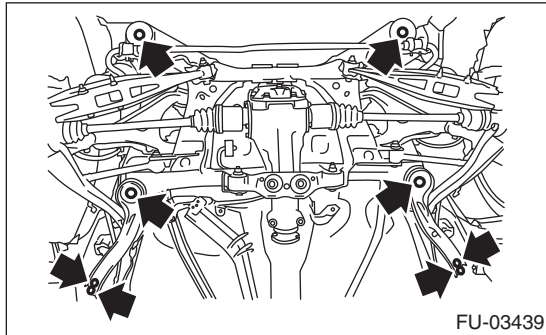
WARNING:

A helper is required to perform this work.

- (1) Support the rear differential with the transmission jack.
- (2) Remove the bolts which hold the rear shock absorber to the rear suspension arm.

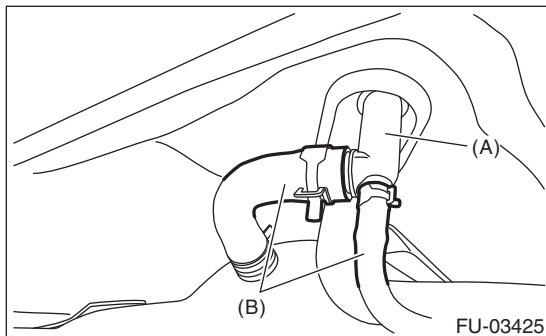


- (3) Remove the bolts which secure the rear suspension assembly to the body.



- (4) Remove the rear suspension assembly.

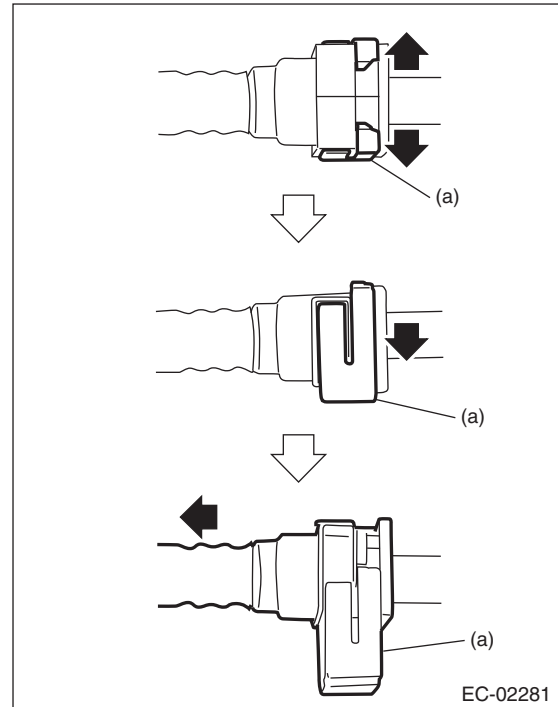
23) Disconnect evaporation hose (B) from connector (A).



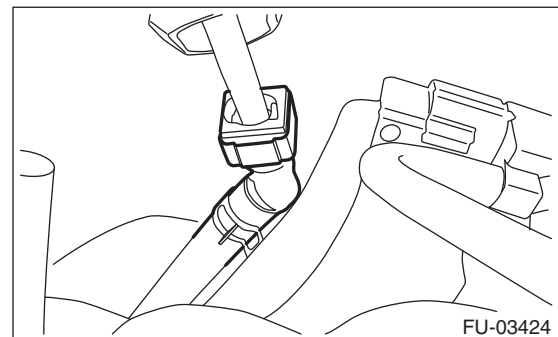
24) Disconnect the quick connector of the evaporation hose from the evaporation pipe.

NOTE:

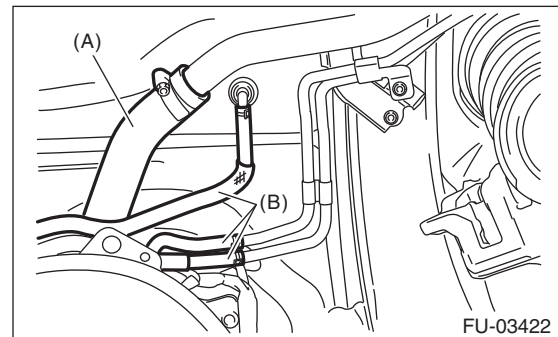
Disconnect the quick connector as shown in the figure.



(a) Retainer



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



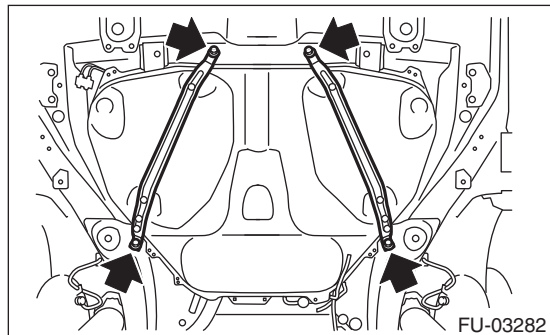
Fuel Tank

FUEL INJECTION (FUEL SYSTEMS)

26) 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 when removing.

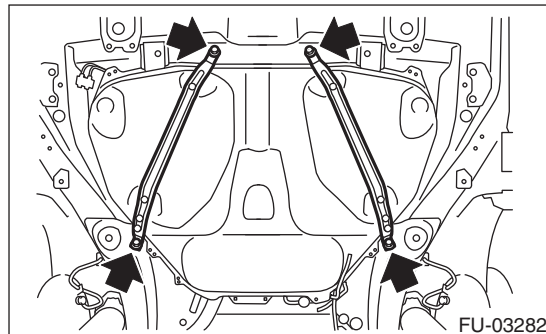


B: INSTALLATION

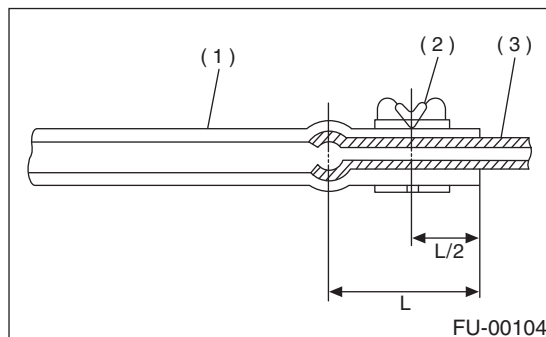
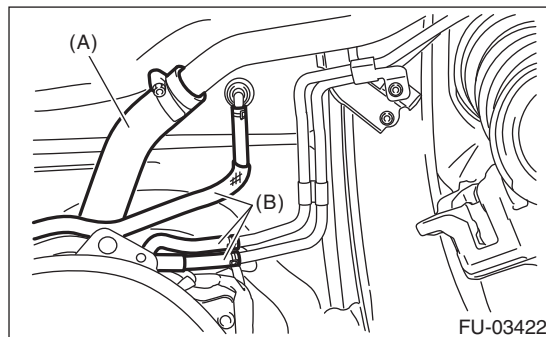
1) Support the fuel tank with a transmission jack, set the fuel tank in place, and temporarily tighten the bolts of the fuel tank band.

WARNING:

A helper is required to perform this work.



2) Securely insert the fuel filler hose (A) and evaporation hose (B) into the specified position, then attach the clamp or clip as shown in the figure.

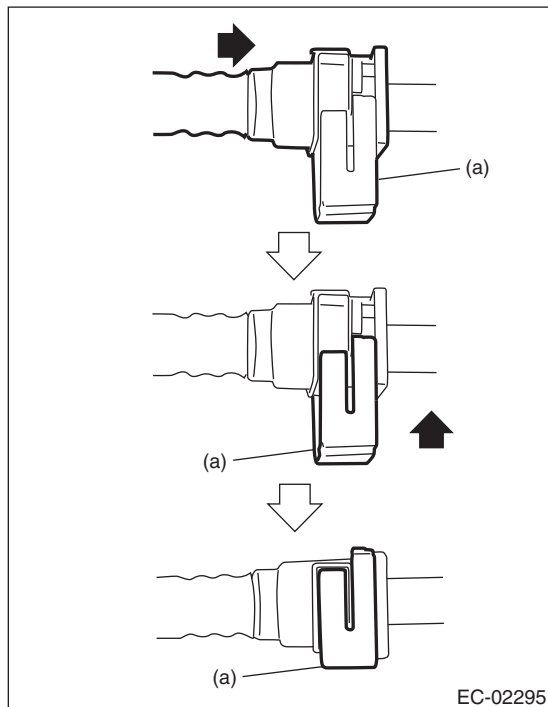


- (1) Hose
- (2) Clip or clamp
- (3) Pipe

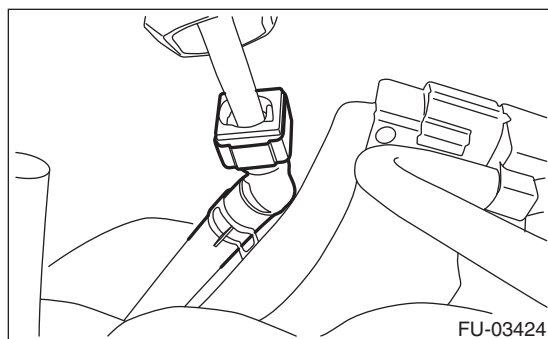
3) Connect the quick connector of the evaporation hose to the evaporation pipe.

CAUTION:

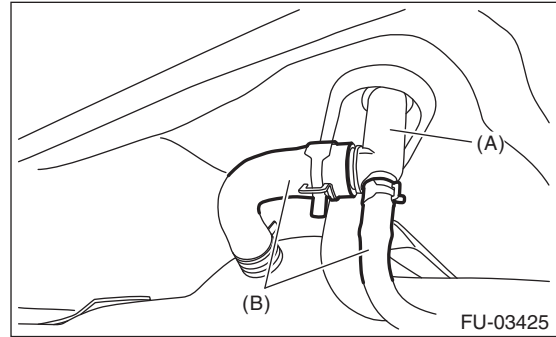
- Check that there is no damage or dust on the quick connector. If necessary, clean seal surface of pipe.
- When connecting the quick connector, insert the pipe all the way in securely, then operate the push lock.
- If it is not possible to perform the push lock operation of the retainer, recheck whether the pipe is securely inserted.
- Confirm that the quick connector is securely connected.



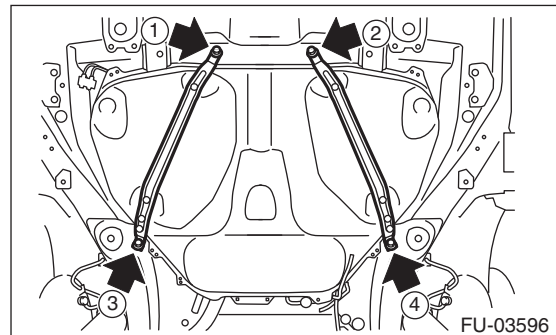
(a) Retainer



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



5) Tighten the fuel tank band bolts 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:

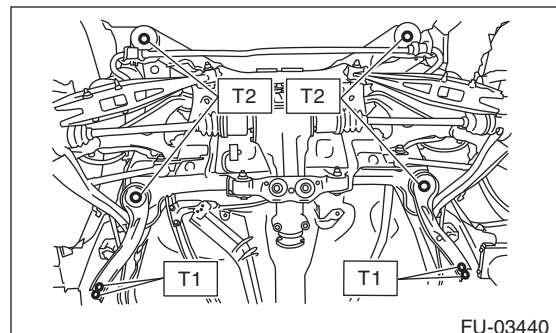
A helper is required to perform this work.

- (1) Support the rear differential with the transmission jack.
- (2) Support the rear suspension assembly, and tighten the bolts which secure 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)



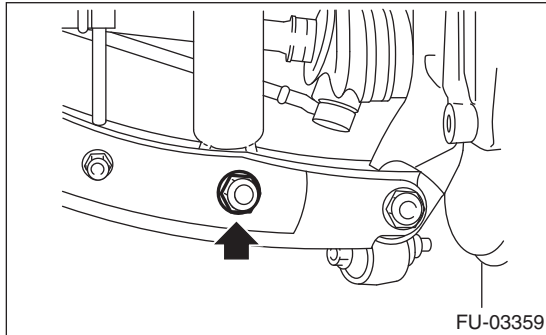
Fuel Tank

FUEL INJECTION (FUEL SYSTEMS)

- (3) Tighten the bolts which hold the rear shock absorber to the rear suspension arm.

Tightening torque:

120 N·m (12.2 kgf-m, 88.5 ft-lb)



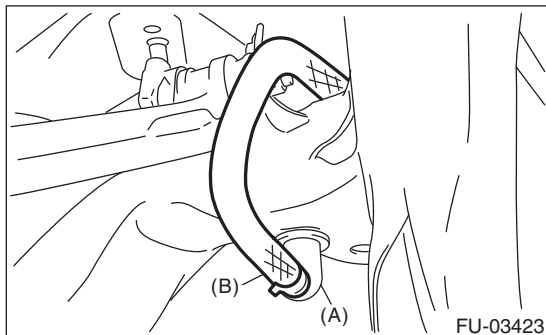
- 7) Install the rear vehicle height sensor. (models with auto headlight beam leveler, left side only)

Tightening torque:

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

- 8) Install the rear vehicle height sensor connector. (models with auto headlight beam leveler, left side only)

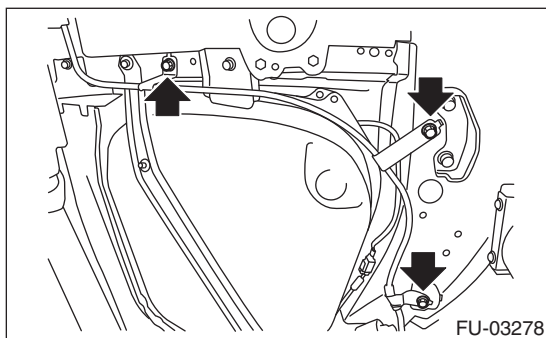
- 9) Connect drain hose (B) to canister drain connector (A).



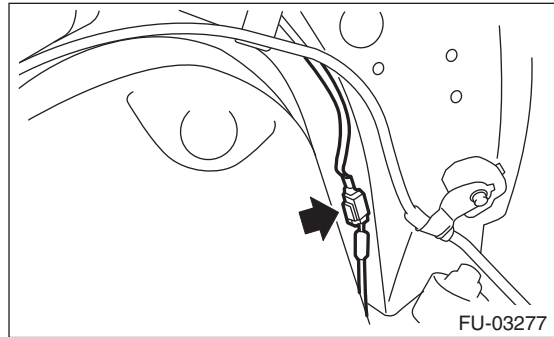
- 10) Tighten the bolts holding the parking brake cable clamp.

Tightening torque:

18 N·m (1.8 kgf-m, 13.3 ft-lb)



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



- 12) Install the heat shield cover.

Tightening torque:

18 N·m (1.8 kgf-m, 13.3 ft-lb)

- 13) Install the fuel tank protector.

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)

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

- 15) Install the rear exhaust pipe. <Ref. to EX(H4DOTC)-12, INSTALLATION, Rear Exhaust Pipe.>

- 16) Lower the vehicle.

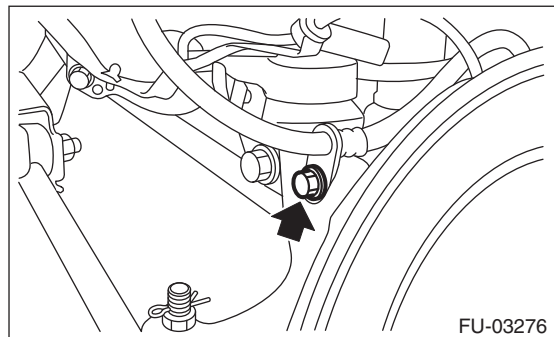
- 17) Connect the parking brake cable to the parking brake assembly. <Ref. to PB-7, INSTALLATION, Parking Brake Assembly (Rear Disc Brake).>

- 18) Install the rear brake caliper. <Ref. to BR-21, INSTALLATION, Rear Disc Brake Assembly.>

- 19) Tighten the bolts which hold the rear brake hose bracket.

Tightening torque:

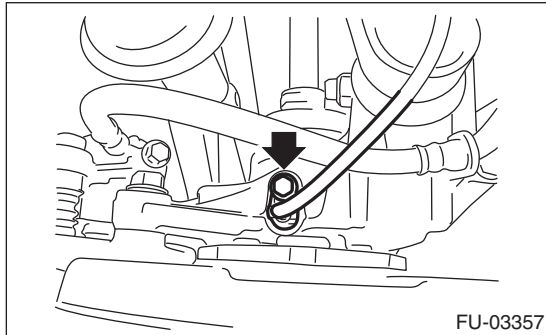
33 N·m (3.4 kgf-m, 24.3 ft-lb)



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

Tightening torque:

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)



21) Install the rear wheels.

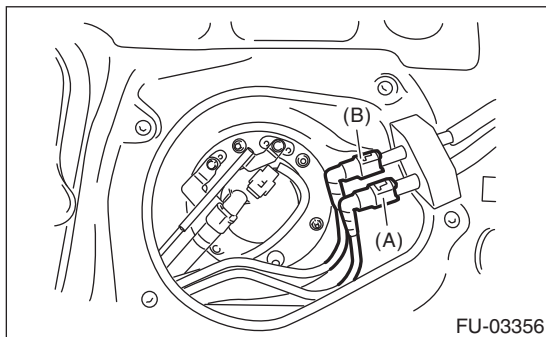
Tightening torque:

100 N·m (10.2 kgf-m, 73.8 ft-lb)

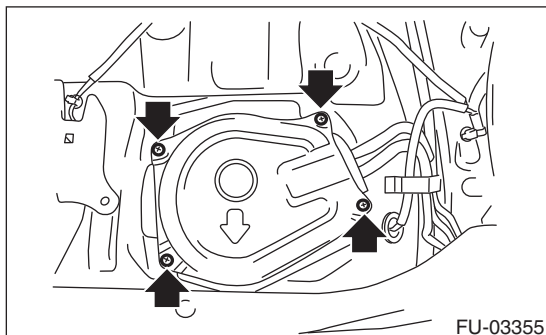
22) Connect the quick connector of fuel delivery tube (A) and fuel return tube (B). <Ref. to FU(H4DOTC)-74, INSTALLATION, Fuel Delivery, Return and Evaporation Lines.>

NOTE:

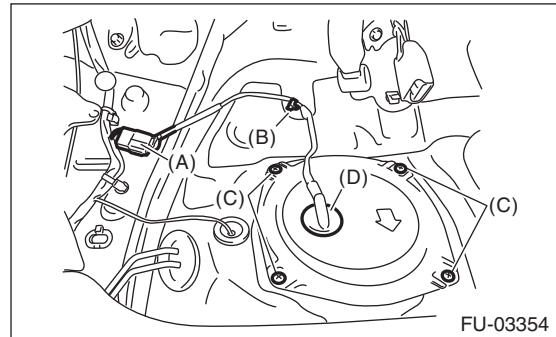
When connecting, be careful not to reverse the delivery side and return side.



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



24) Attach the service hole cover of the fuel pump, and secure the connector and clip.



(A) Connector

(B) Clip

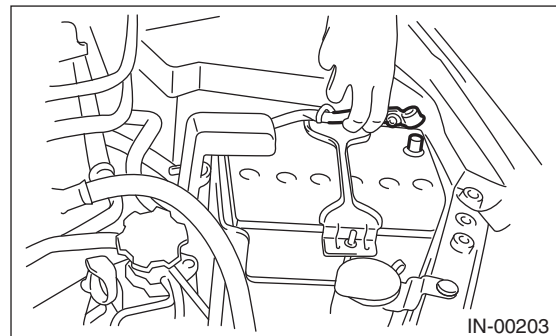
(C) Bolt

(D) Grommet

25) Install the rear seat cushion. <Ref. to SE-16, INSTALLATION, Rear Seat.>

26) Install the fuse of fuel pump to main fuse box.

27) Connect the ground cable to the battery.



28) Inspect the wheel alignment and adjust if necessary.

29) Re-initialize the auto headlight beam leveler system. <Ref. to LI-15, PROCEDURE, Auto Headlight Beam Leveler System.>

C: INSPECTION

1) Check that the fuel tank does not have holes, cracks or is damaged in any other way.

2) Make sure that the fuel pipe and fuel hose are not cracked and that the connections are tight.