

4. Canister

A: REMOVAL

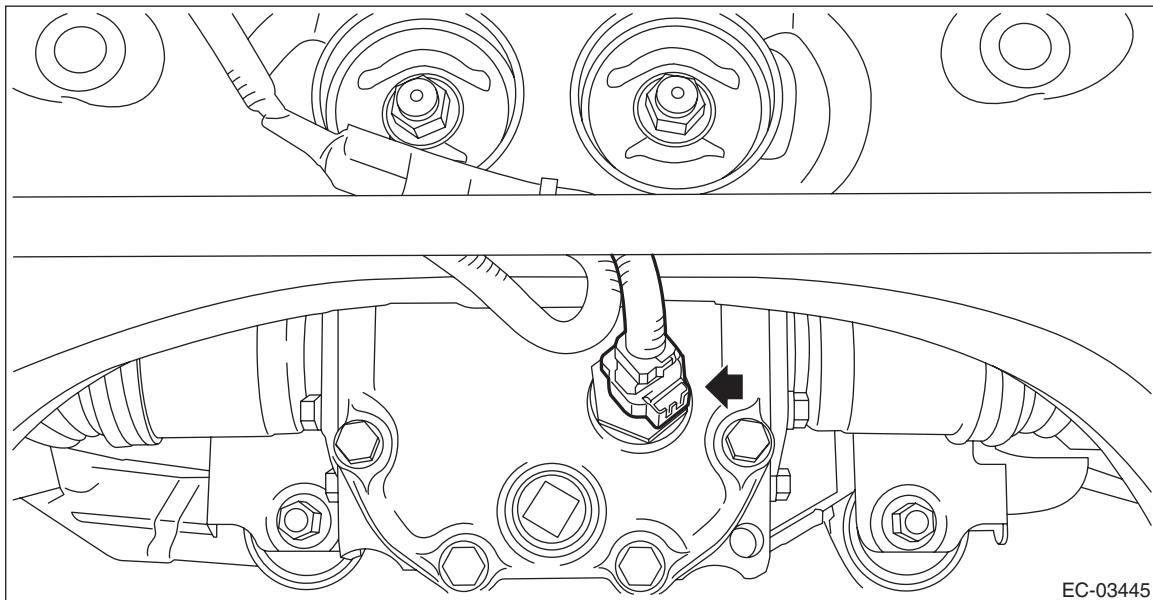
WARNING:

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

CAUTION:

Be careful not to spill fuel.

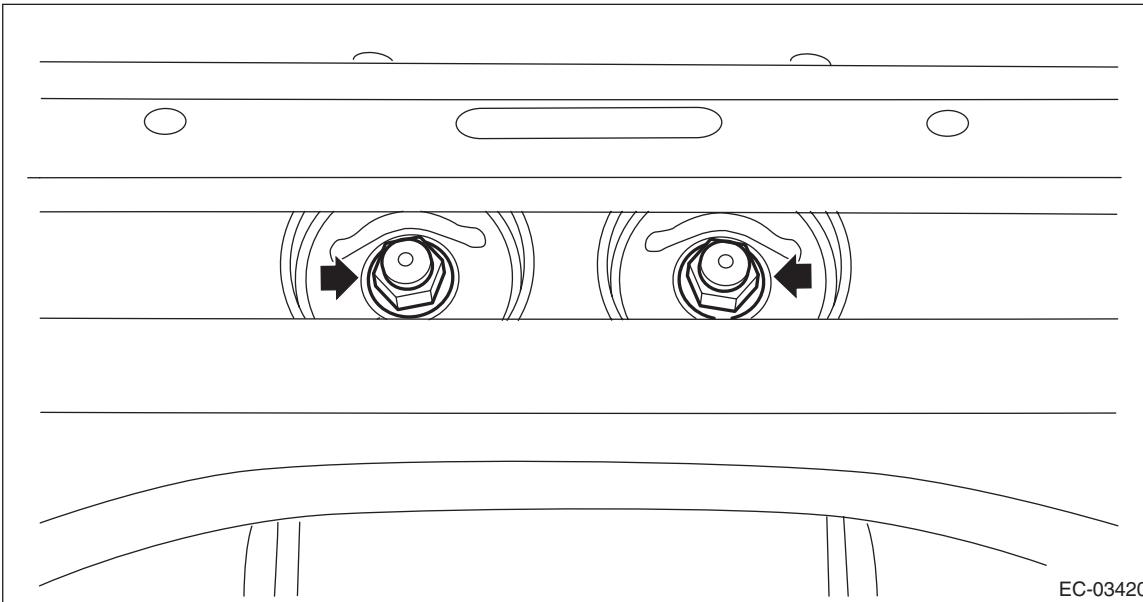
- 1) Release the fuel pressure. <Ref. to FU(STI)-64, RELEASING OF FUEL PRESSURE, PROCEDURE, Fuel.>
- 2) Drain fuel. <Ref. to FU(STI)-64, DRAINING FUEL (WITH SUBARU SELECT MONITOR), PROCEDURE, Fuel.>
- 3) Disconnect the ground cable from battery.
- 4) Lift up the vehicle.
- 5) Remove the rear exhaust pipe. <Ref. to EX(STI)-12, REMOVAL, Rear Exhaust Pipe.>
- 6) Remove the propeller shaft. <Ref. to DS-12, REMOVAL, Propeller Shaft.>
- 7) Support the rear differential with the transmission jack.
- 8) Disconnect the connector from oil temperature sensor.



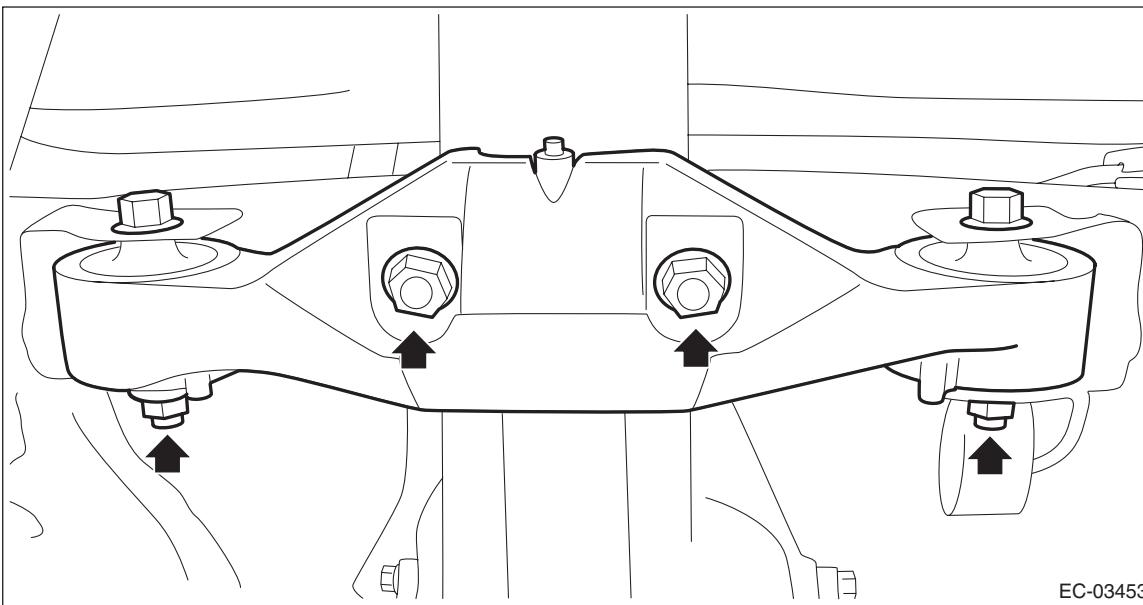
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EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

9) Remove the self-locking nuts which hold the rear differential to the rear sub frame assembly.



10) Remove the rear differential member from the rear sub frame assembly and the rear differential.



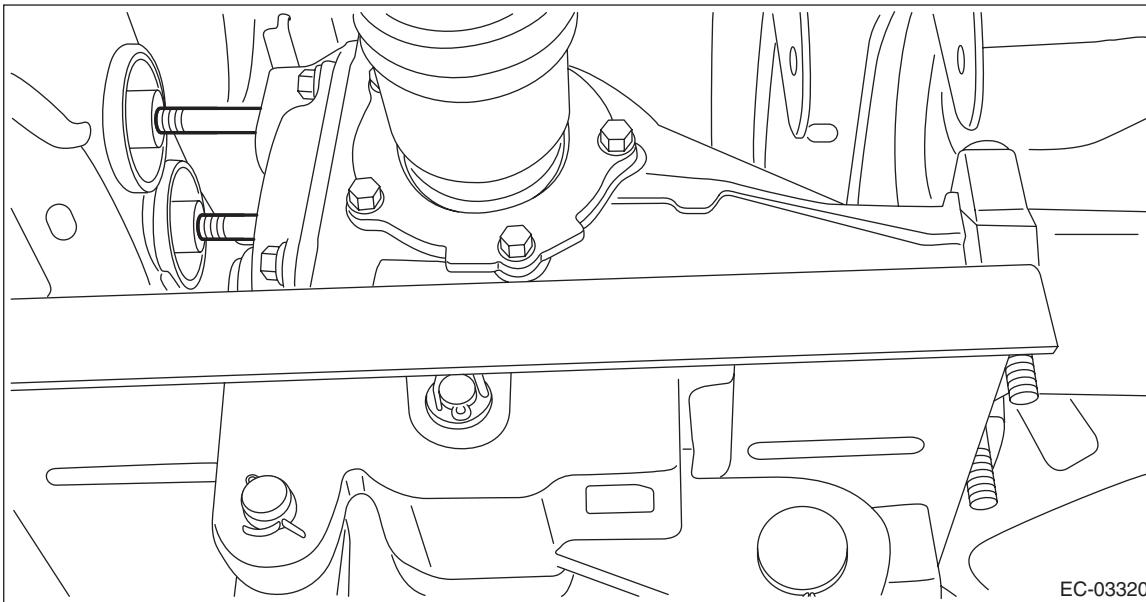
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EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

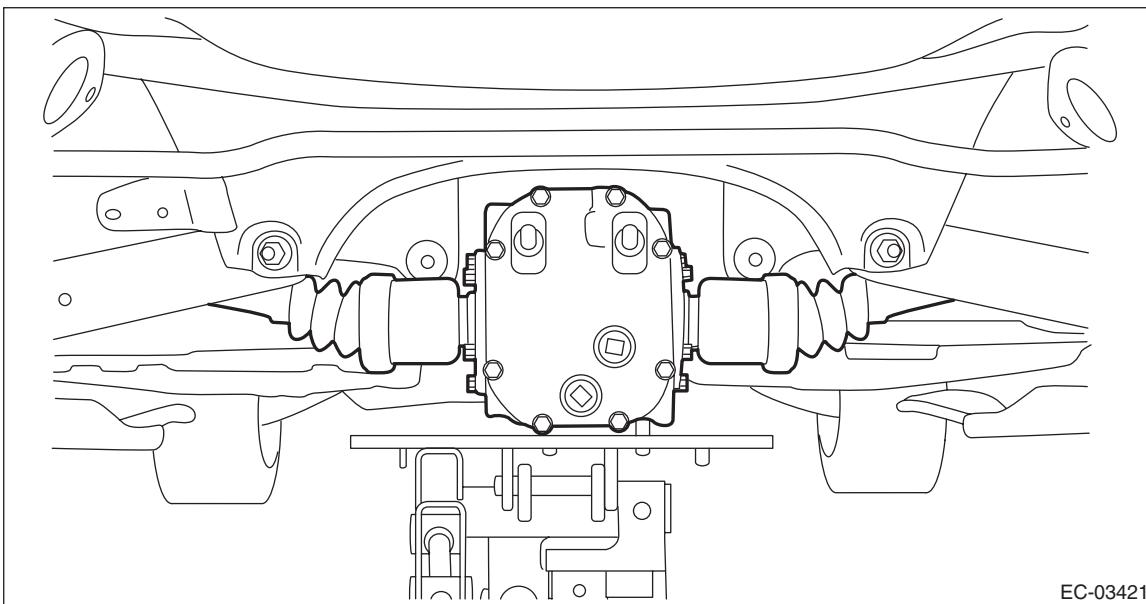
11) Lower the transmission jack gradually until the rear differential is at the position shown in the figure.

NOTE:

- When pulling out the stud bolt from the bushing portion of the rear sub frame assembly, adjust the angle and location of transmission jack and jack stand.



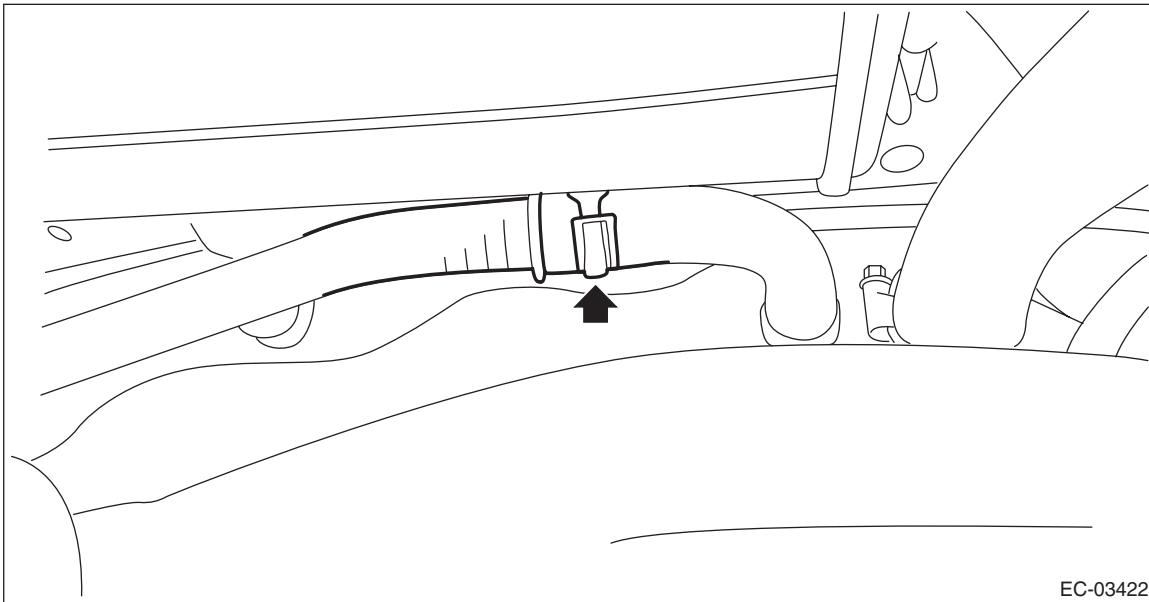
- Do not lower the rear differential excessively. Doing so may add extra load to the drive shaft or cause the falling-off of the drive shaft.



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EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

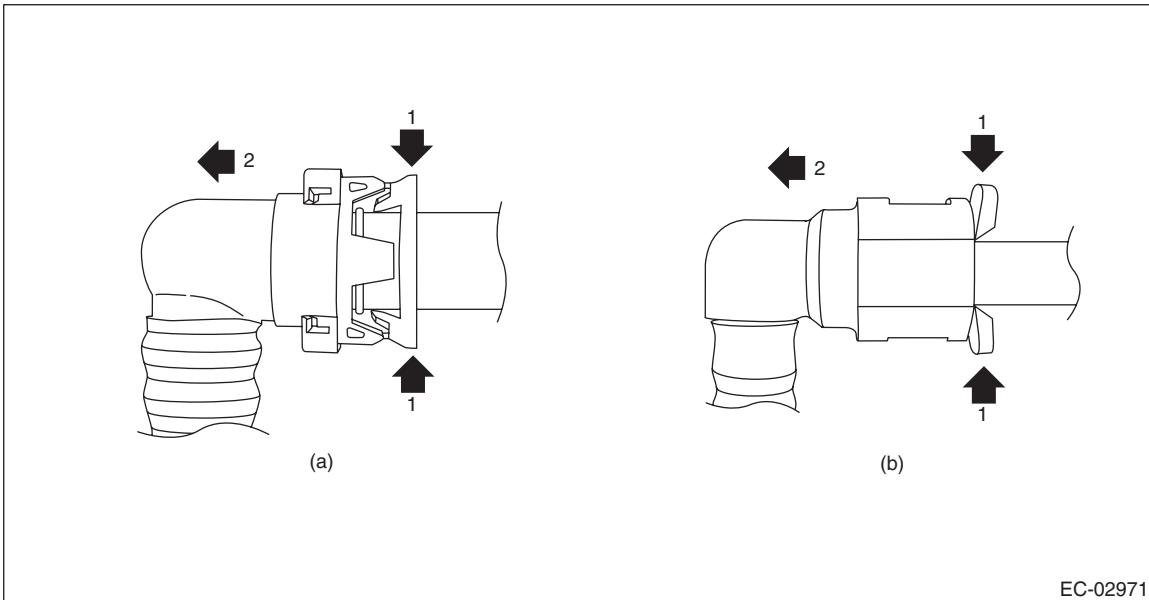
12) Disconnect the vent tube from vent hose.



13) Disconnect the drain tube (A) and purge tube (B) from the canister.

NOTE:

Disconnect the quick connector as shown in the figure.

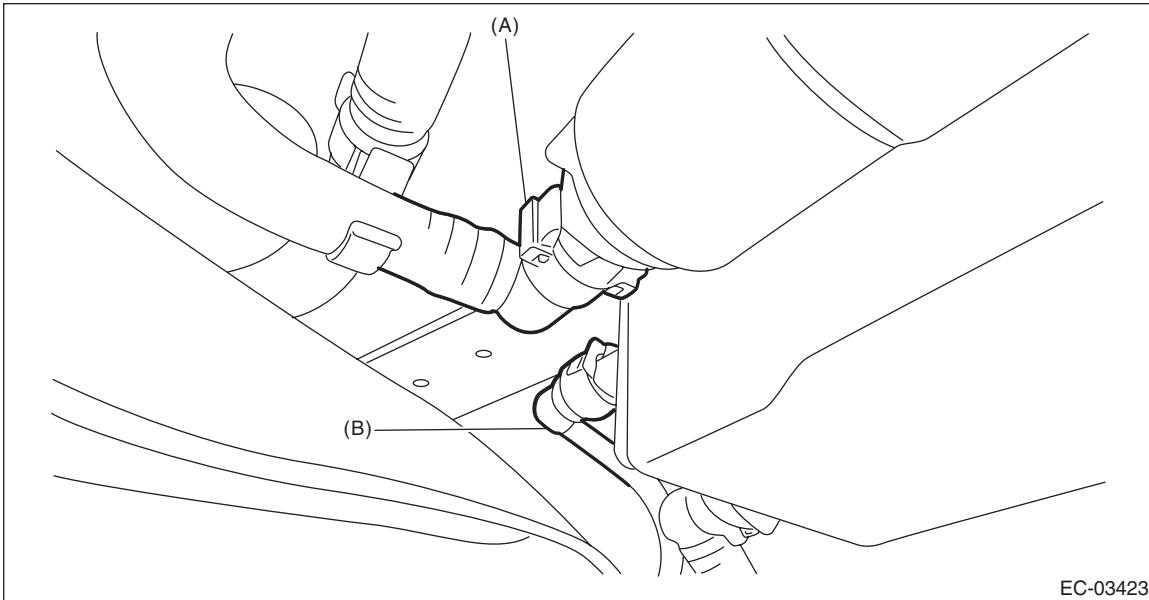


(a) Drain tube

(b) Purge tube

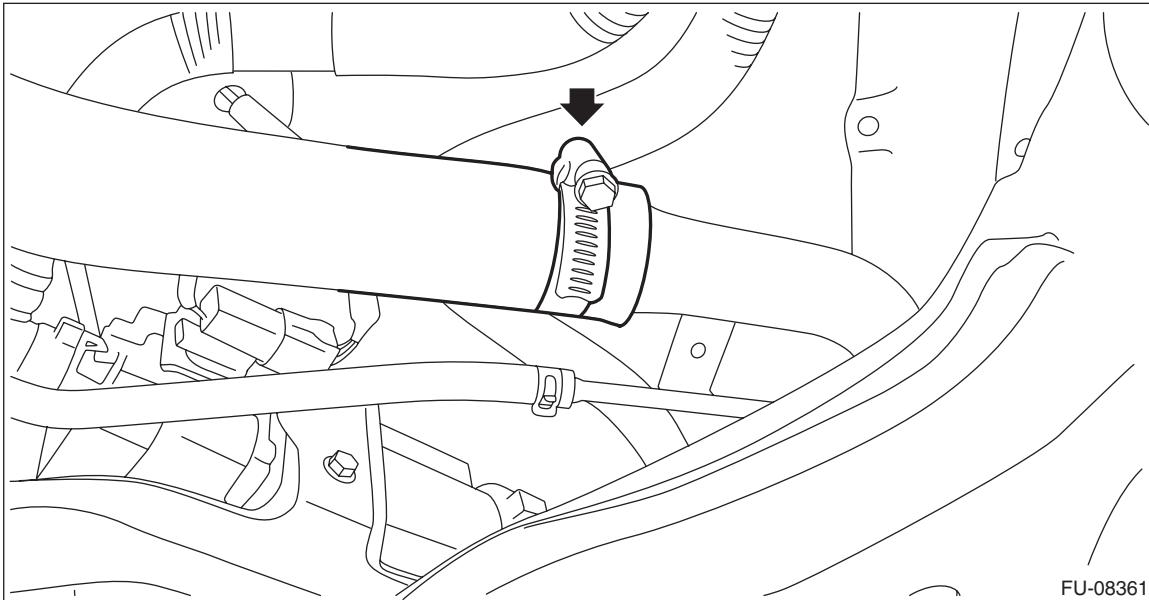
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EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)



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- 14) Disconnect the fuel filler hose from the fuel filler pipe assembly.

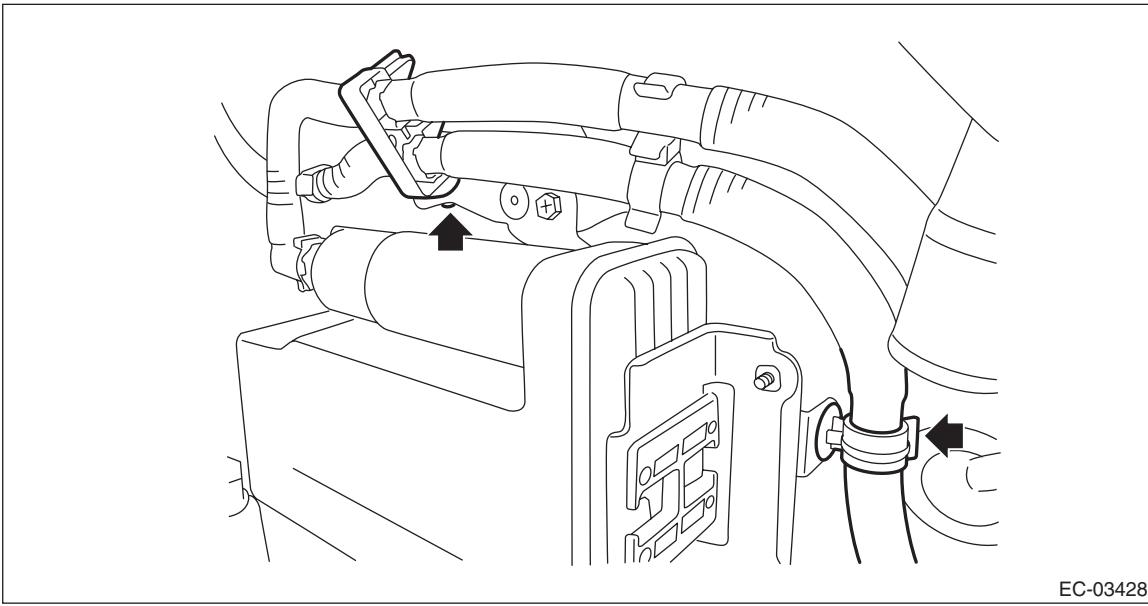


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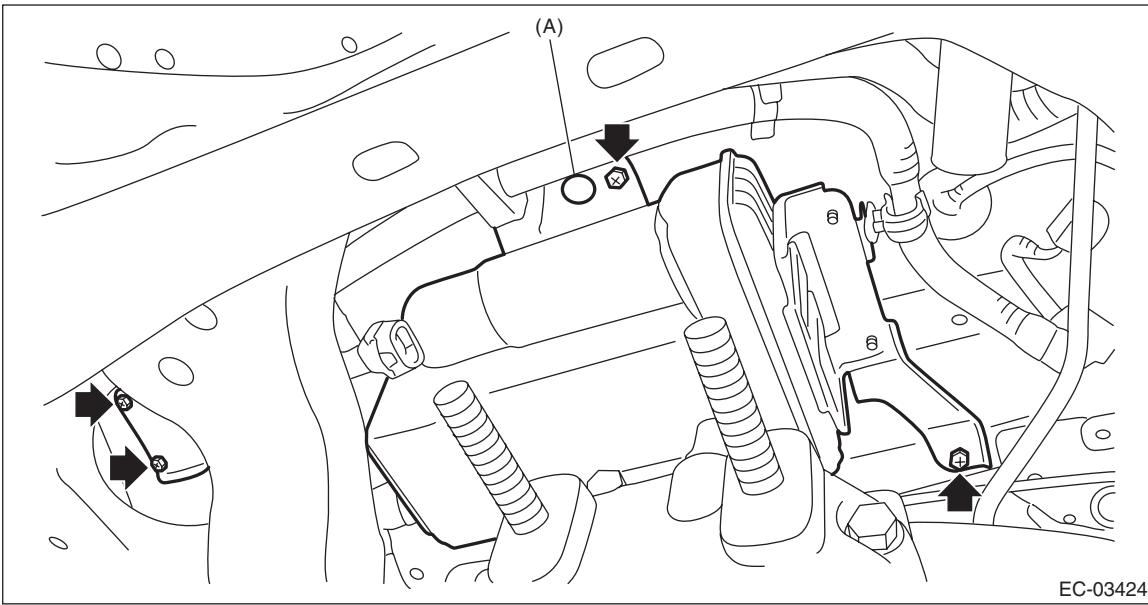
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EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

15) Remove the tube clamp from the canister bracket A, and remove the drain tube from the tube clamp.



16) Remove the bolts and clip (A) securing the canister to the vehicle, and remove the canister.



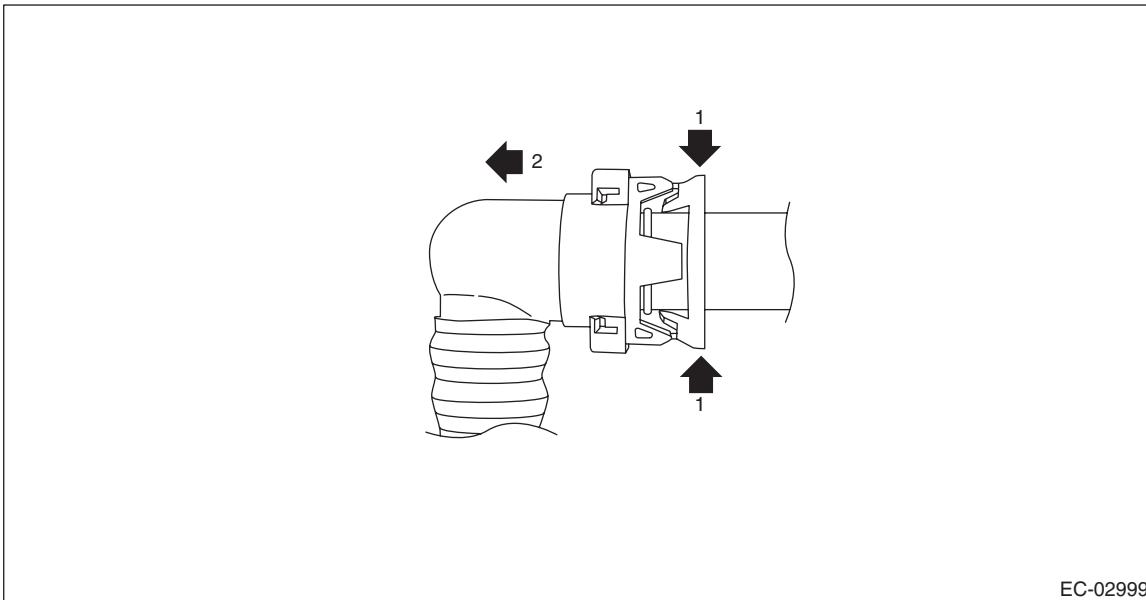
Canister

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

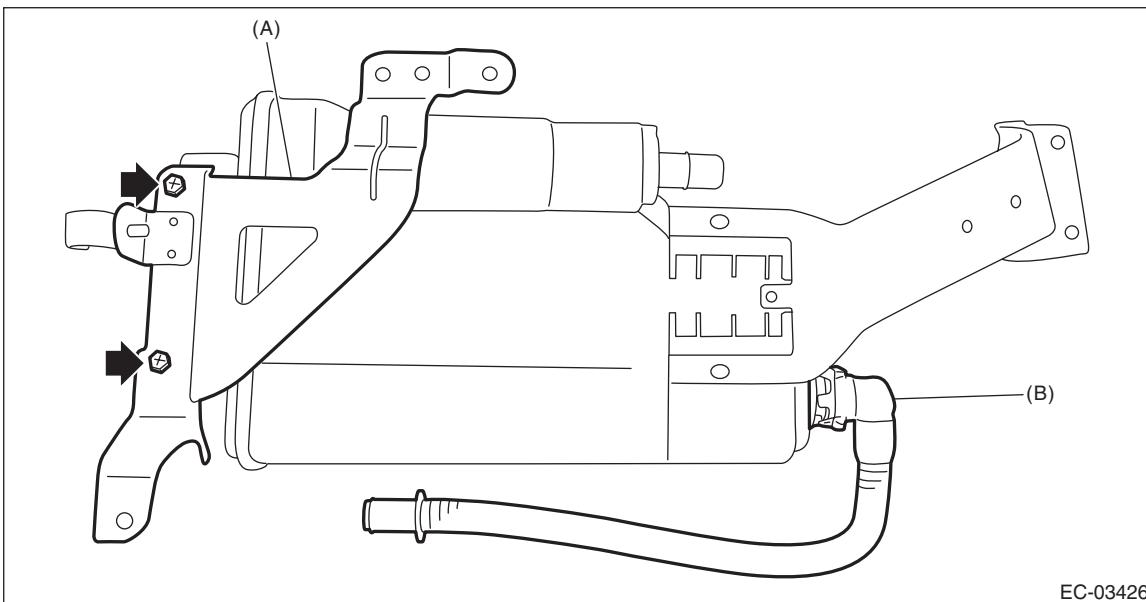
17) Disconnect the vent tube (B) from the canister and remove the canister bracket A (A).

NOTE:

- Disconnect the quick connector as shown in the figure.



- The canister bracket cannot be separated from the canister. Therefore, be sure to replace both of them with new ones when replacing the canister or canister bracket.



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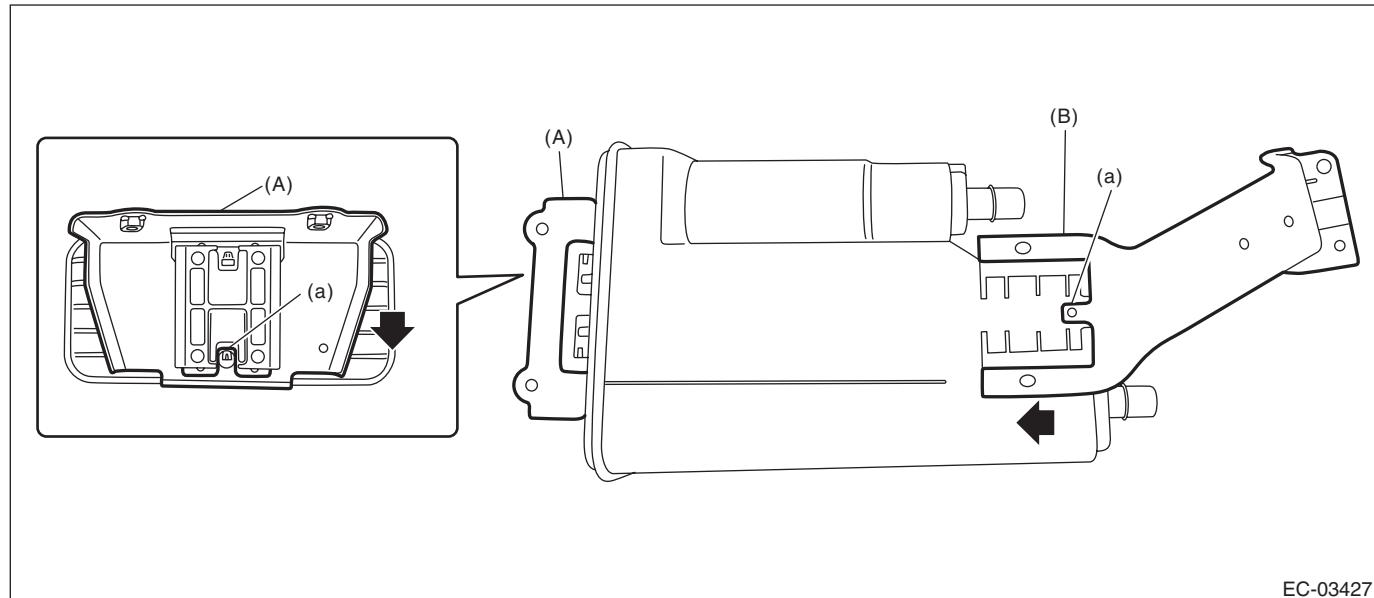
EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

B: INSTALLATION

1) Move it in the direction of the arrow and install the canister bracket B (A) and canister bracket C (B) to the canister.

NOTE:

- Use a new canister and a canister bracket.
- Check that the claw (a) is securely tightened.



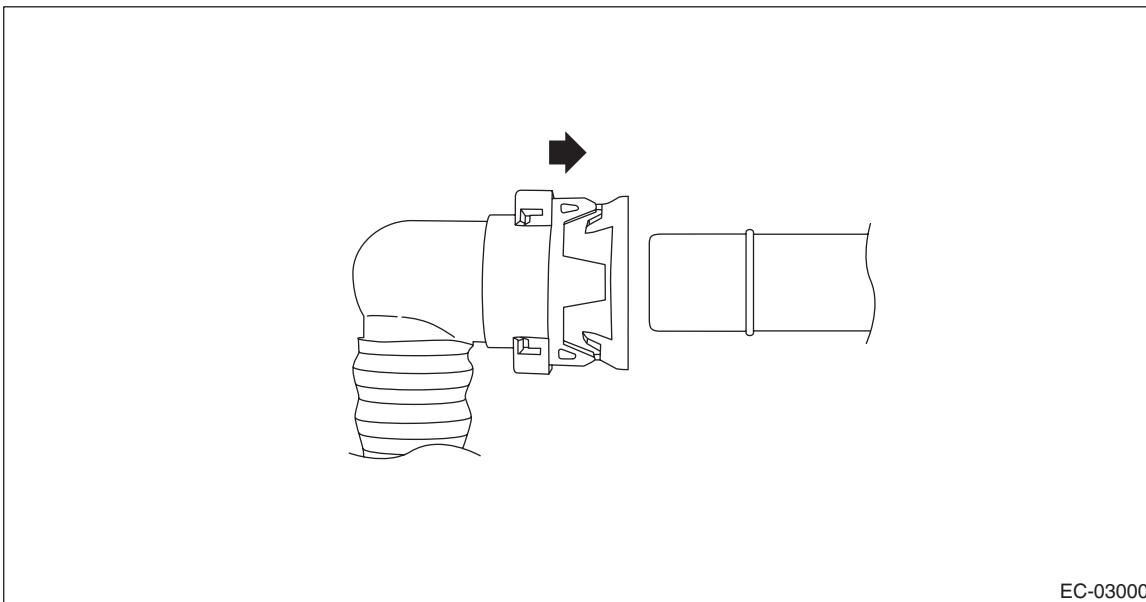
2) Connect the vent tube (B) to the canister and remove the canister bracket A (A).

CAUTION:

- Check that there is no damage or dust on the quick connector. If necessary, clean the seal surface of the pipe.
- Make sure that the quick connector is securely connected.

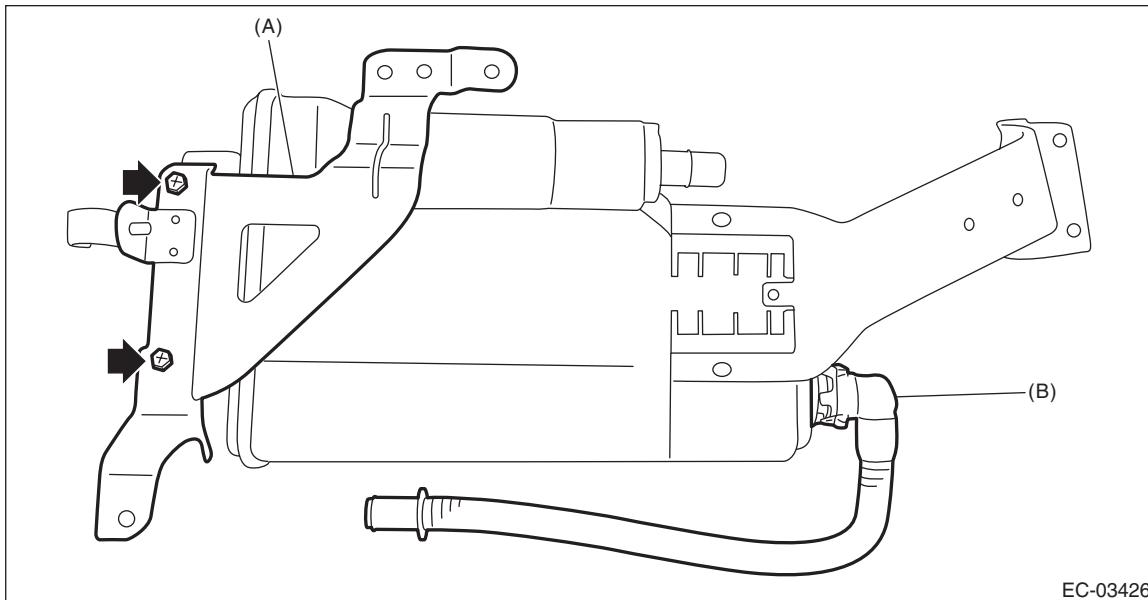
NOTE:

Install the quick connector as shown in the figure.



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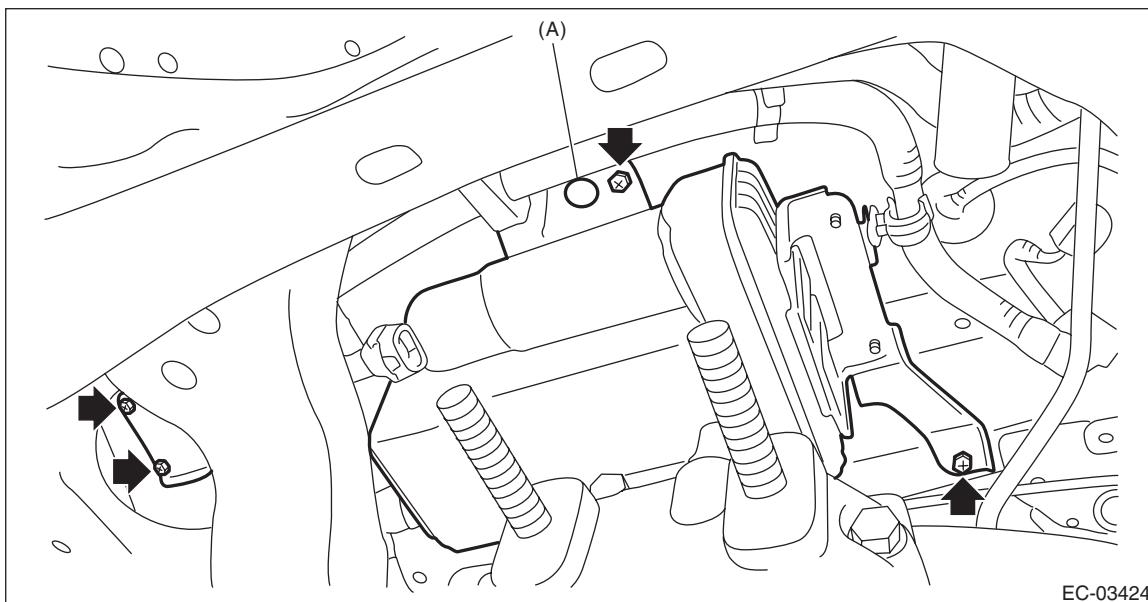
EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)



3) Set the canister to the vehicle, and attach the bolts and clip (A) which secure the canister.

Tightening torque:

7.5 N·m (0.8 kgf·m, 5.5 ft-lb)



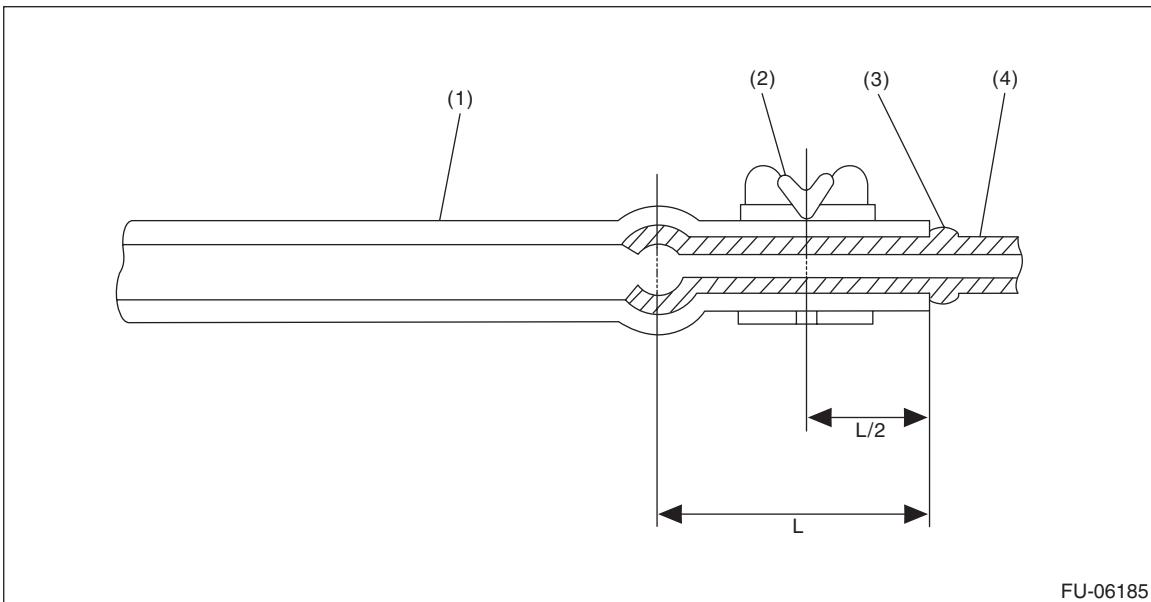
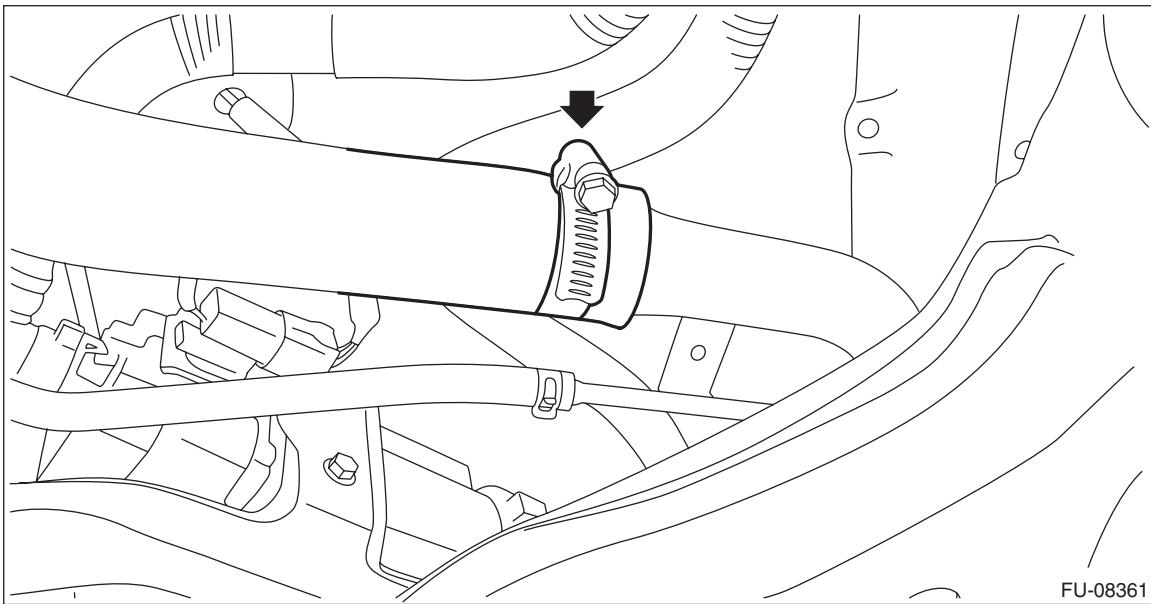
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EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

4) Correctly insert the fuel filler hose to the spool, and then install the clamp as shown.

Tightening torque:

2.5 N·m (0.3 kgf·m, 1.8 ft-lb)



(1) Hose

(2) Clamp

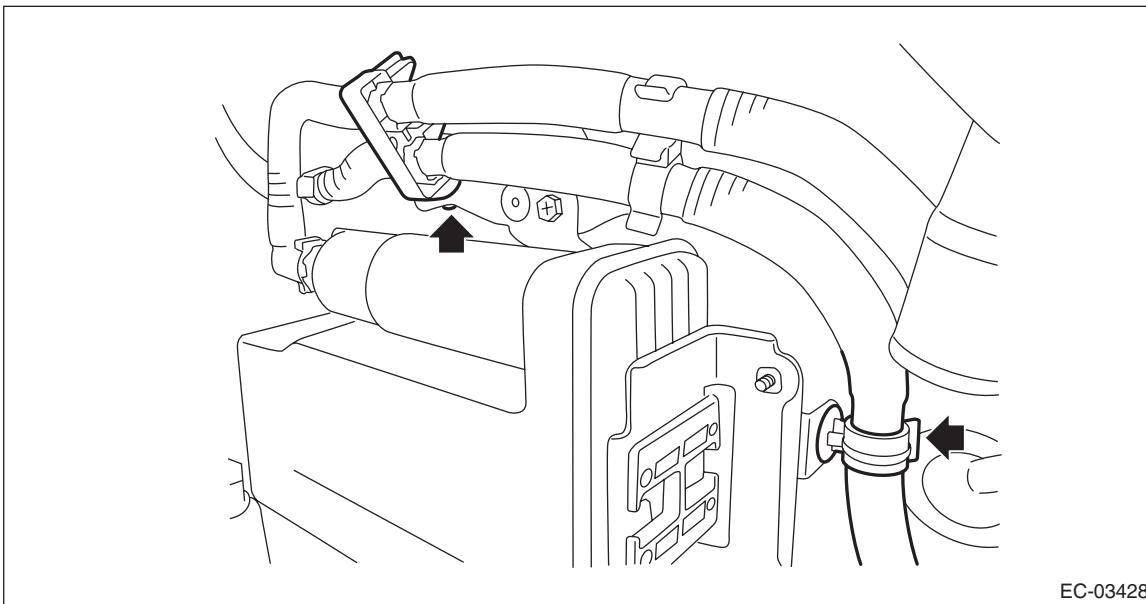
(3) Spool

(4) Pipe

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EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

5) Install the tube clamp to the canister bracket A, and install the drain tube to the tube clamp.



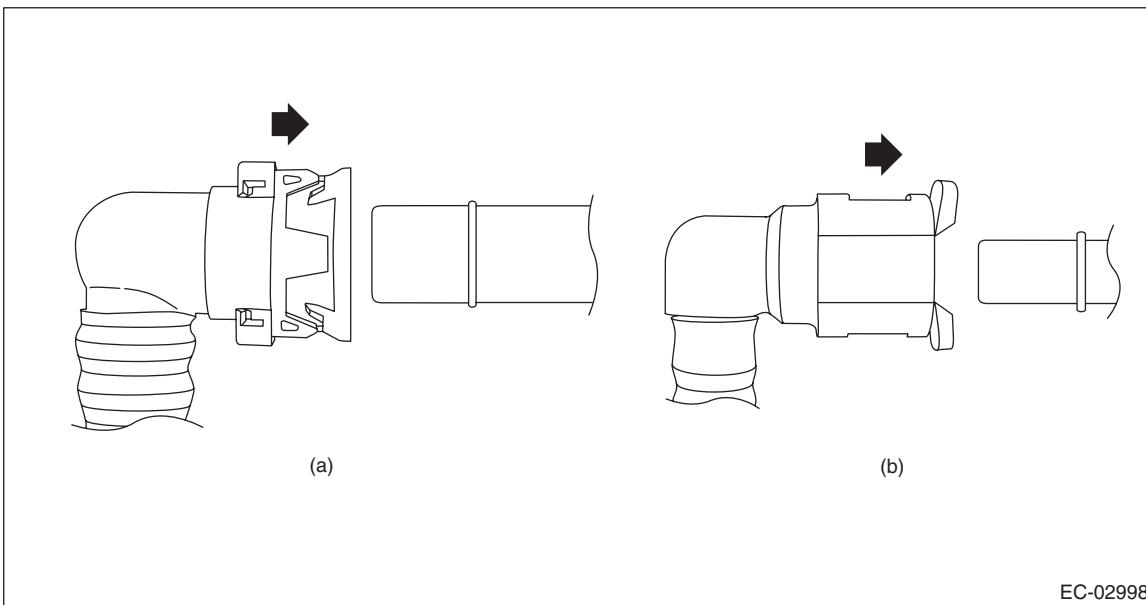
6) Connect the drain tube (A) and purge tube (B) to the canister.

CAUTION:

- Check that there is no damage or dust on the quick connector. If necessary, clean the seal surface of the pipe.
- Make sure that the quick connector is securely connected.

NOTE:

Install the quick connector as shown in the figure.

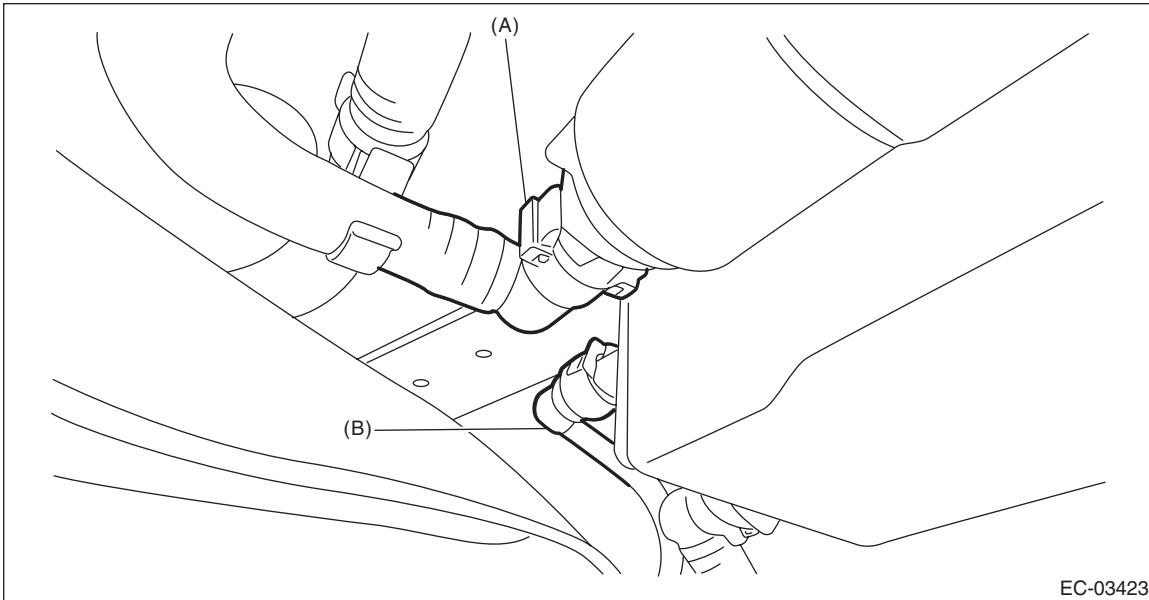


(a) Drain tube

(b) Purge tube

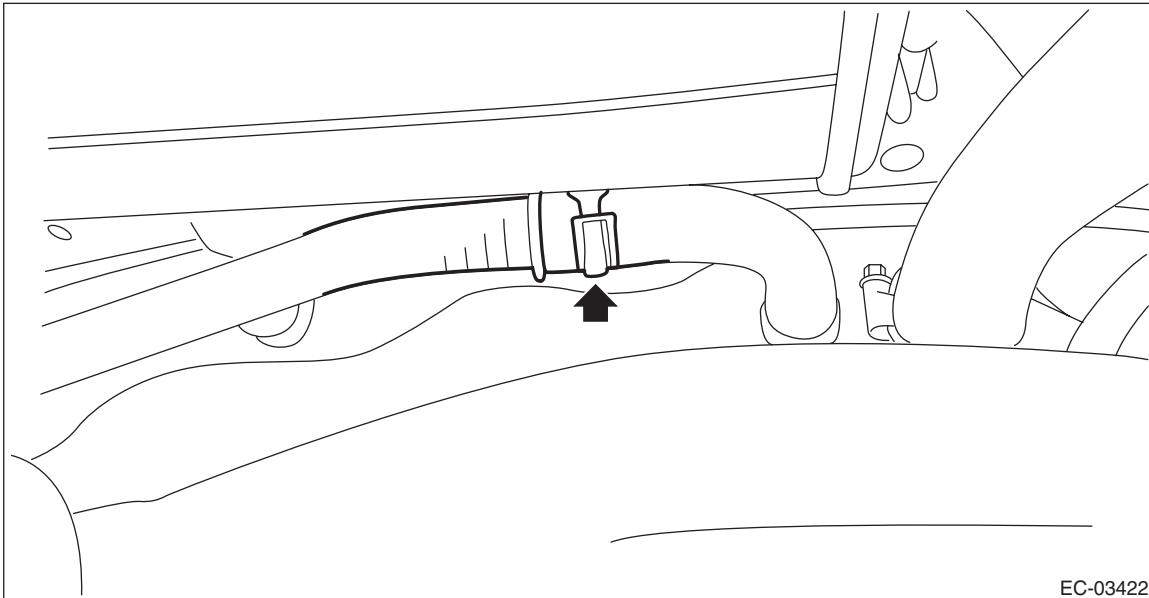
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EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)



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7) Connect the vent tube to the vent hose.



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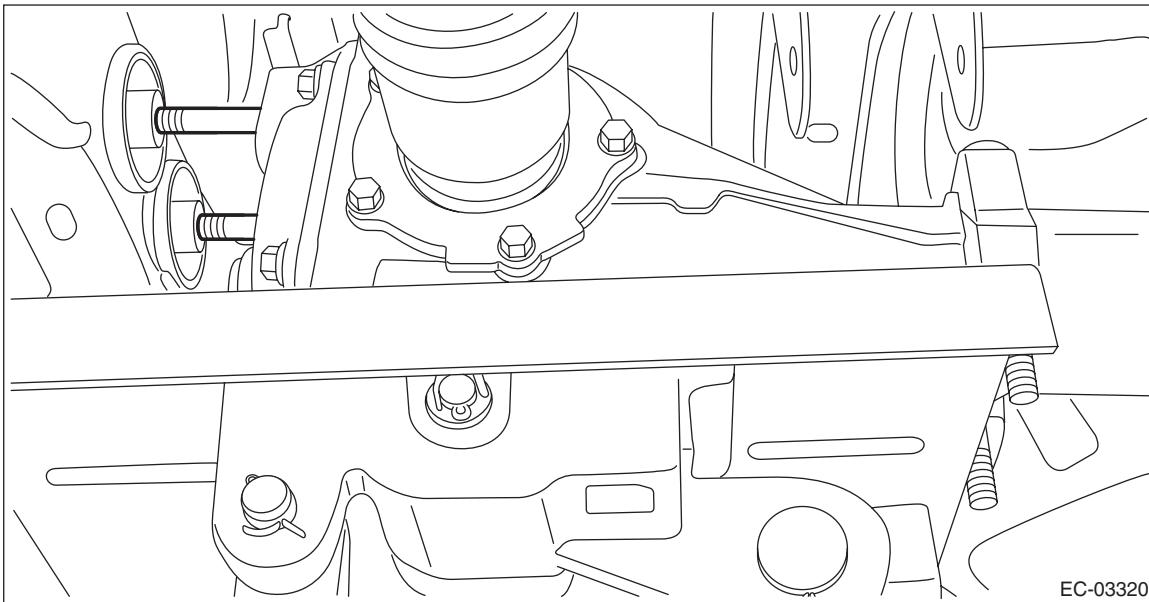
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EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

8) Lift up the transmission jack gradually, and set the rear differential to the rear sub frame assembly.

NOTE:

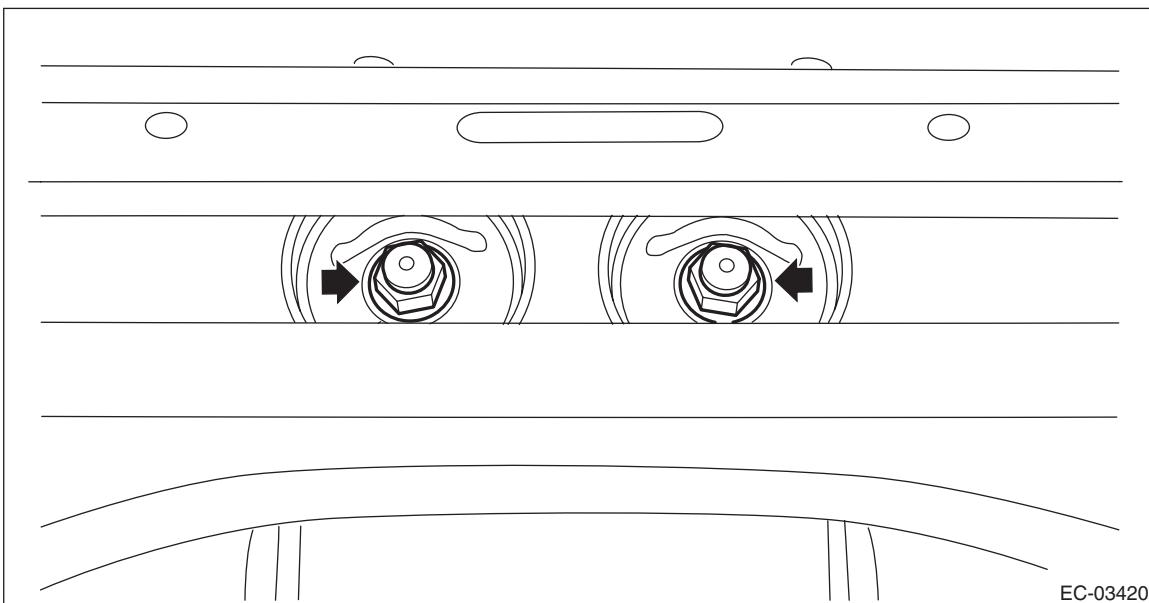
When inserting the stud bolt into the bushing portion of the rear sub frame assembly, adjust the angle and location of transmission jack and jack stand.



9) Temporarily tighten the self-locking nuts which hold the rear differential to the rear sub frame assembly.

NOTE:

Use a new self-locking nut.



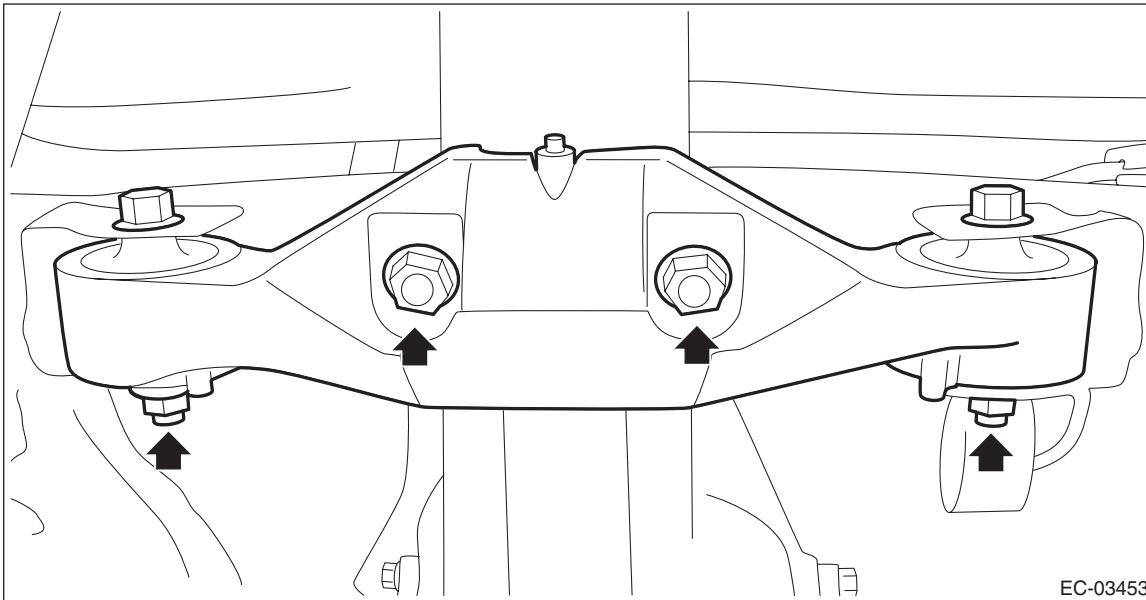
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EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

10) Set the rear differential member to the rear sub frame assembly and rear differential, and temporarily tighten the self-lock nuts which secure the rear differential member to the rear sub frame assembly and rear differential.

NOTE:

Use a new self-locking nut.



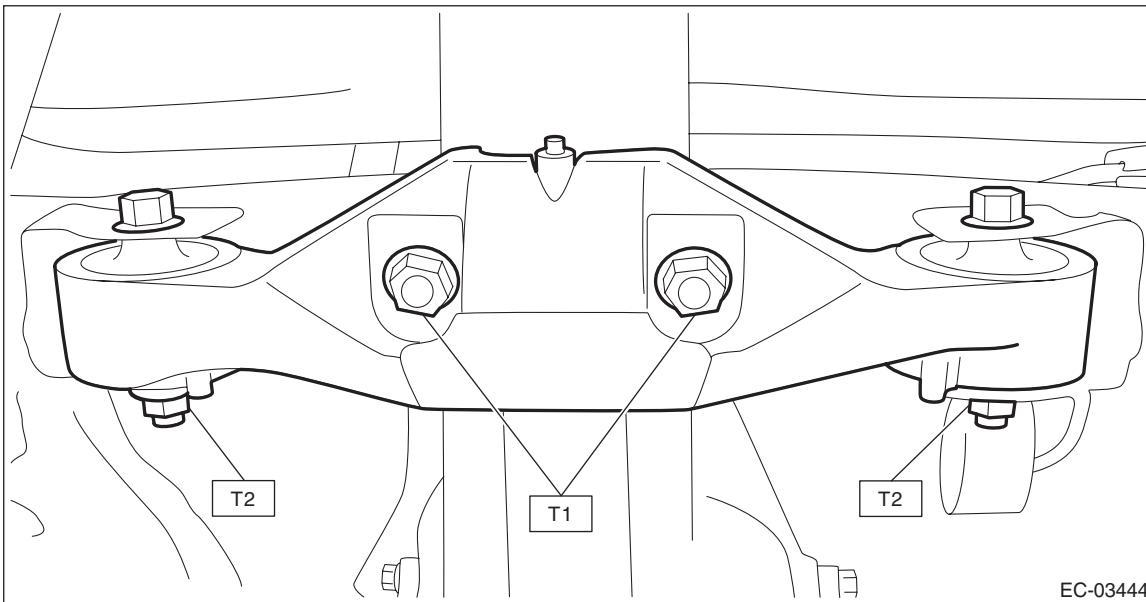
11) Remove the transmission jack from the rear differential.

12) Tighten the self-locking nuts which secure the rear differential member to the rear sub frame assembly and rear differential.

Tightening torque:

T1: 50 N·m (5.1 kgf-m, 36.9 ft-lb)

T2: 110 N·m (11.2 kgf-m, 81.1 ft-lb)



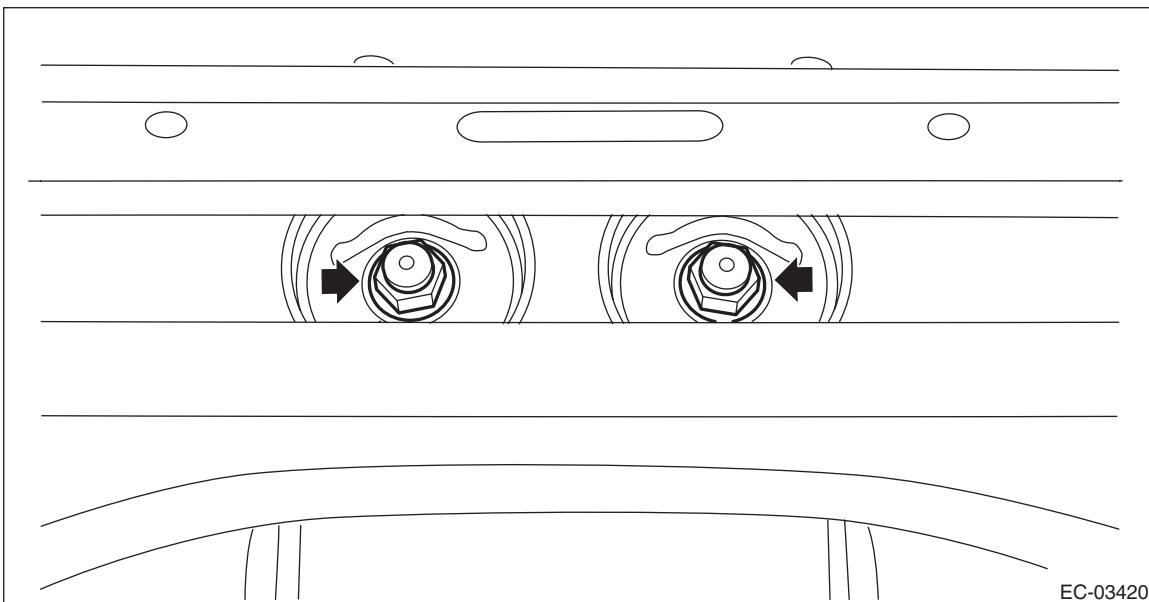
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EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

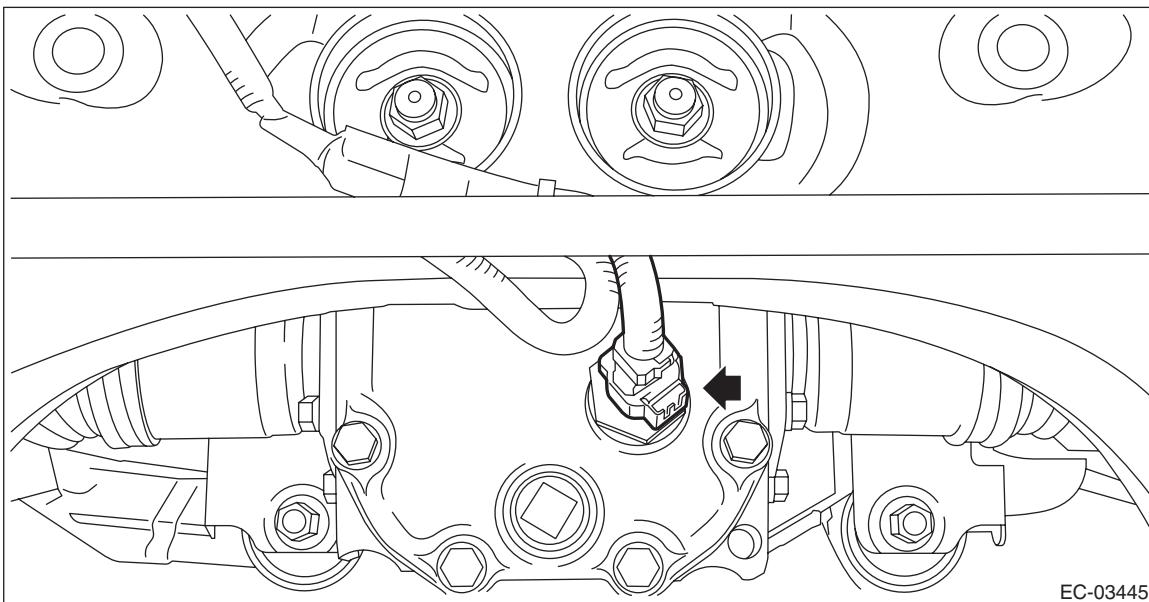
13) Tighten the self-locking nuts which secure the rear differential to the rear sub frame assembly.

Tightening torque:

70 N·m (7.1 kgf·m, 51.6 ft-lb)



14) Connect the connector to the oil temperature sensor.



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

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

17) Lower the vehicle.

18) Connect the ground terminal to the battery.

C: INSPECTION

- 1) Check that the canister has no deformation, cracks or other damages.
- 2) Check that the tube has no cracks, damage or loose part.