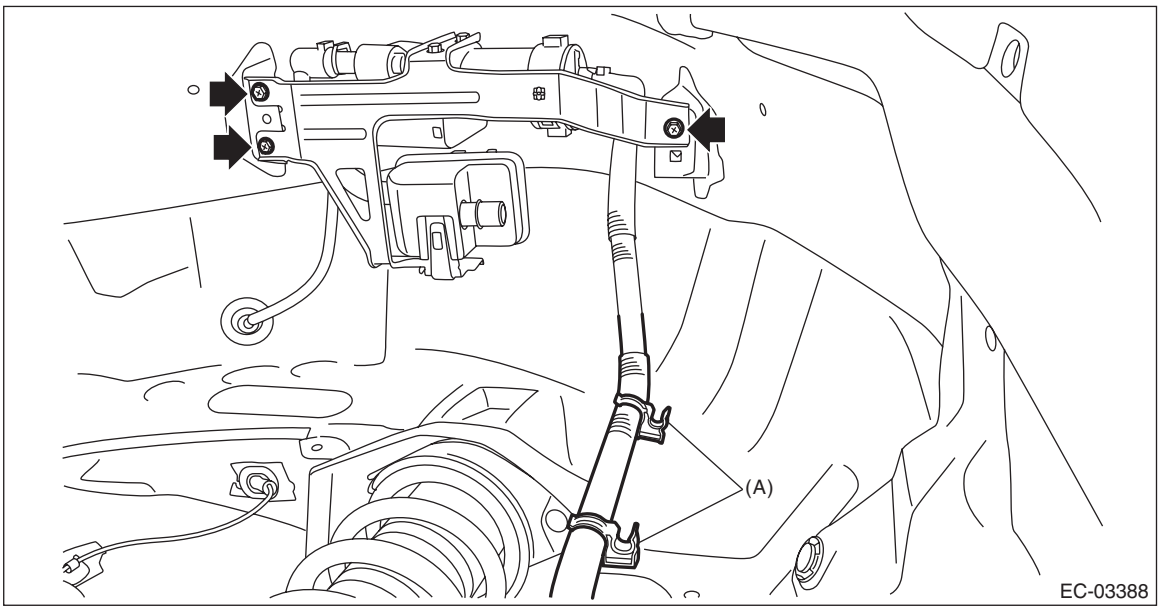
12.Leak Check Valve Assembly

A: REMOVAL

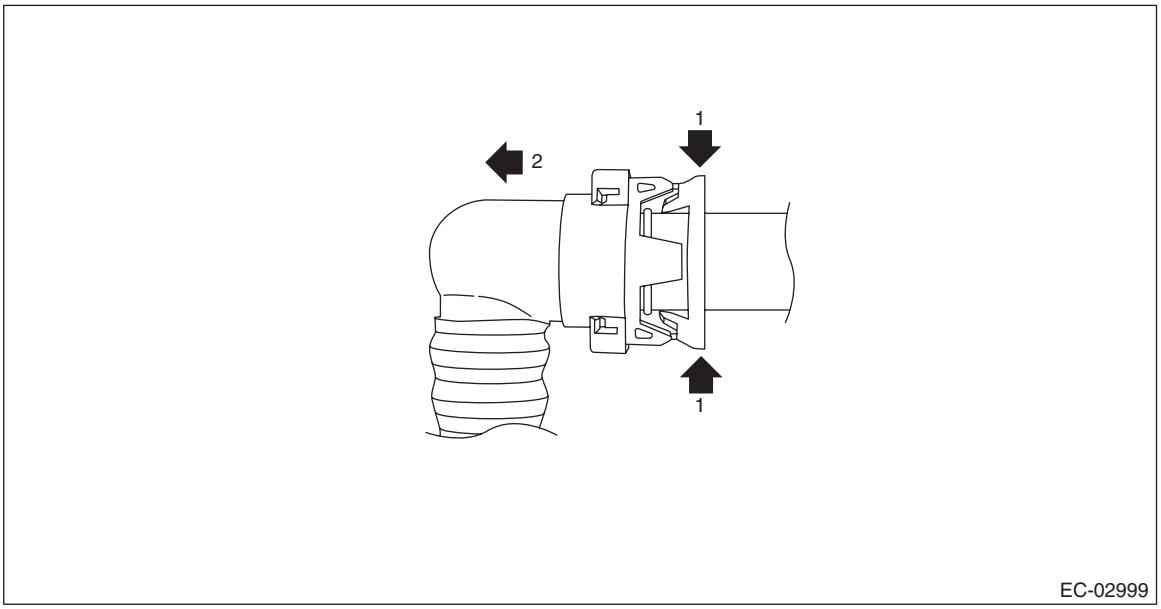
1) Disconnect the ground cable from battery. <Ref. to NT-5, BATTERY, NOTE, Note.>

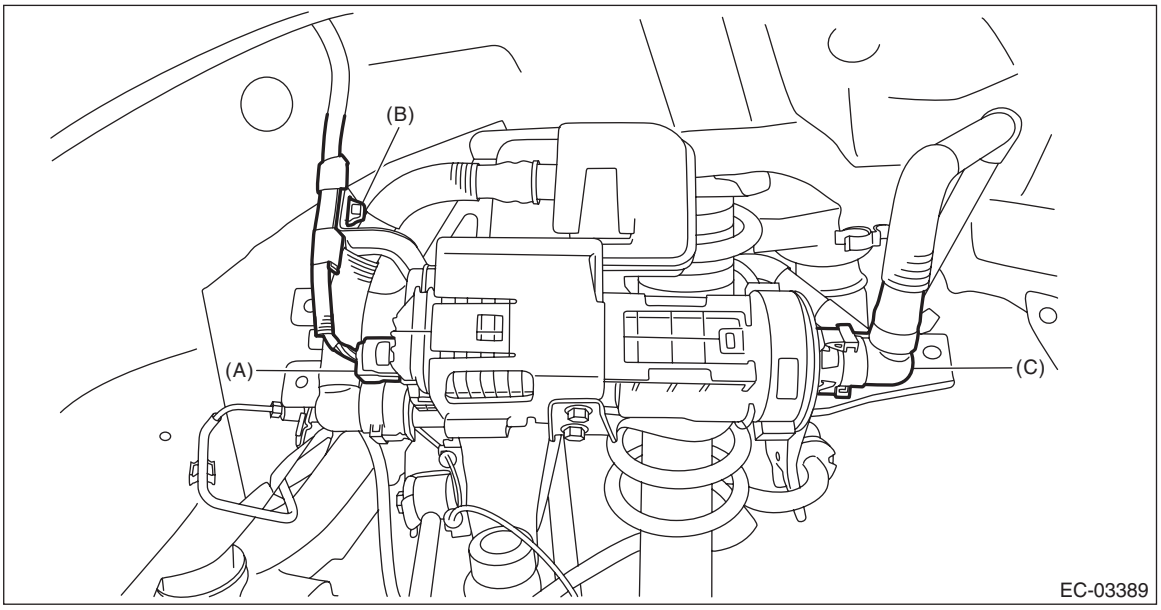
NOTE:
For the 12 volt engine restart battery, disconnect the ground terminal from 12V engine restart battery sensor.
2) Remove the rear wheel LH.
3) Lift up the vehicle.
4) Remove the rear mud guard LH. <Ref. to EI-33, REMOVAL, Mud Guard.>
5) Remove the drain tube B from the tube clamp (A).
6) Hold the leak check valve assembly, and remove the bolts securing the leak check valve assembly.



7) Disconnect the connector (A) from the leak check valve assembly, and remove the clip (B) securing the harness.
8) Disconnect the drain tube B (C) from the leak check valve assembly.

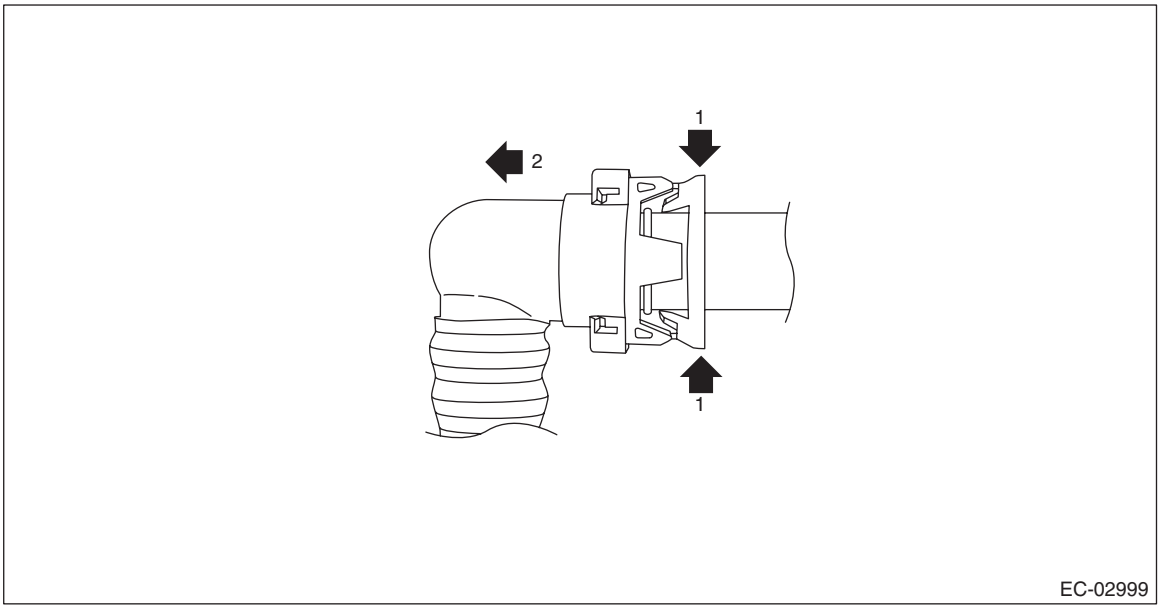
NOTE:
Disconnect the quick connector as shown in the figure.



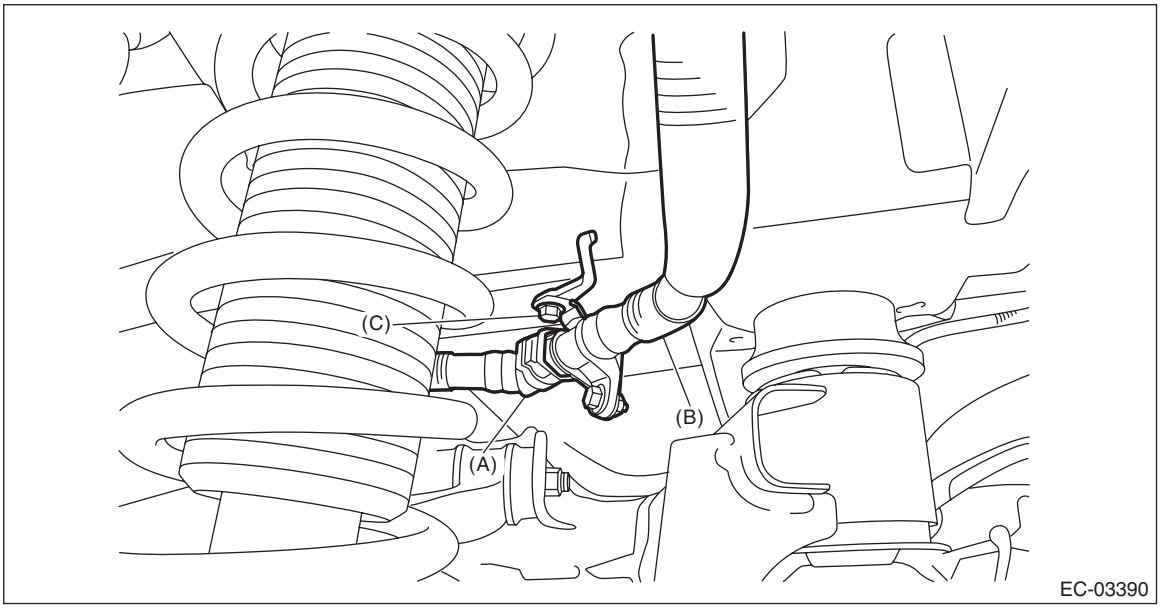


9) Disconnect the drain tube A (A) from the drain tube B (B).

NOTE:
Disconnect the quick connector as shown in the figure.



10) Remove the bolt (C) which secures to the vehicle, and remove the drain tube B (B).



B: INSTALLATION

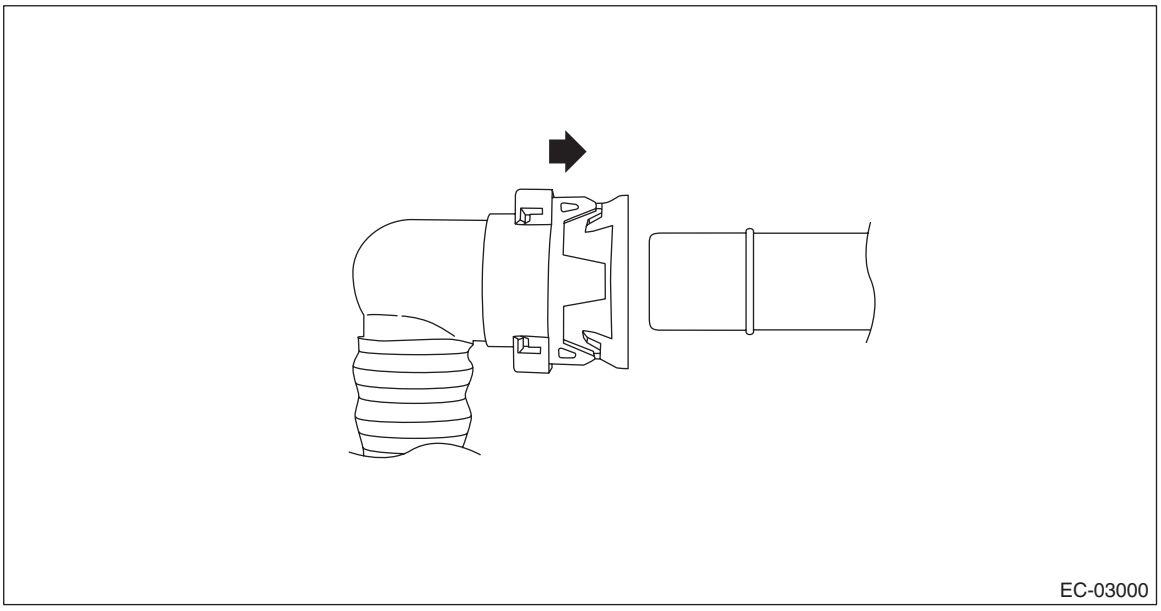
1) Install the drain tube B (B) to the vehicle using the bolt (C).

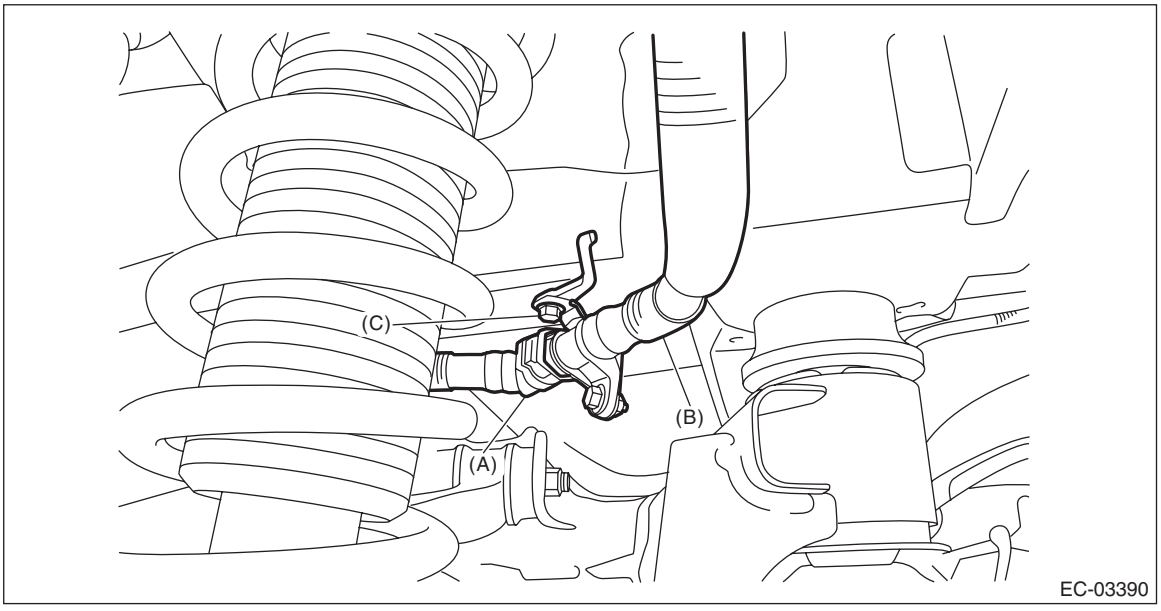
Tightening torque:
7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

2) Connect the drain tube A (A) to the drain tube B (B).

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:
Connect the quick connector as shown in the figure.


EC-03000

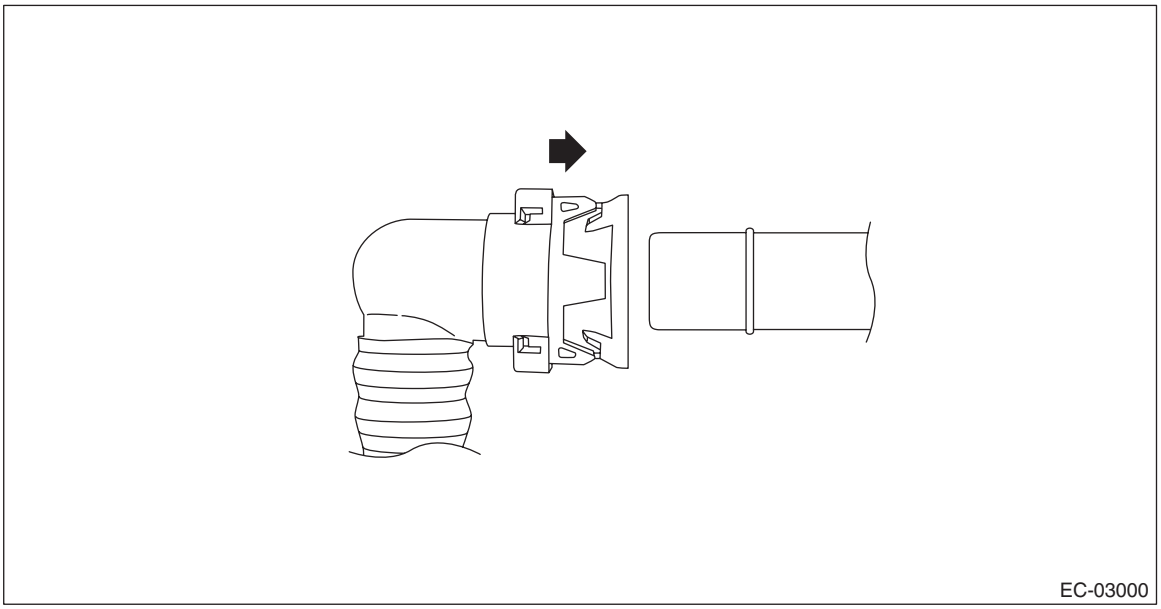


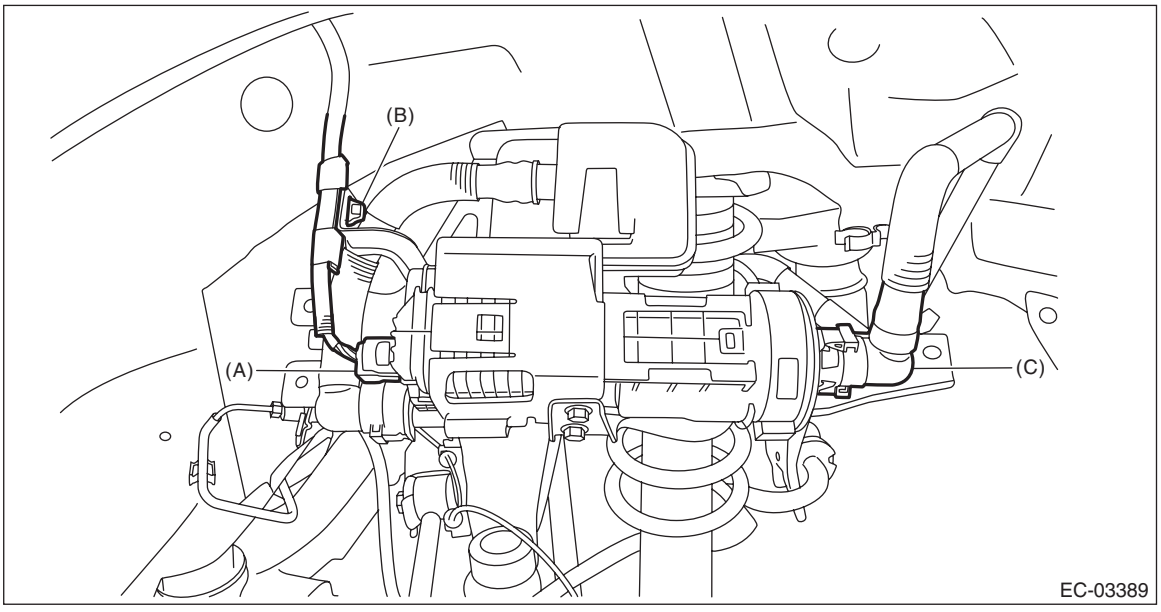
EC-03390

3) Connect the connector (A) to the leak check valve assembly, and install the clip (B) securing the harness.
4) Connect the drain tube B (C) to the leak check valve assembly.

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:
Connect the quick connector as shown in the figure.


EC-03000

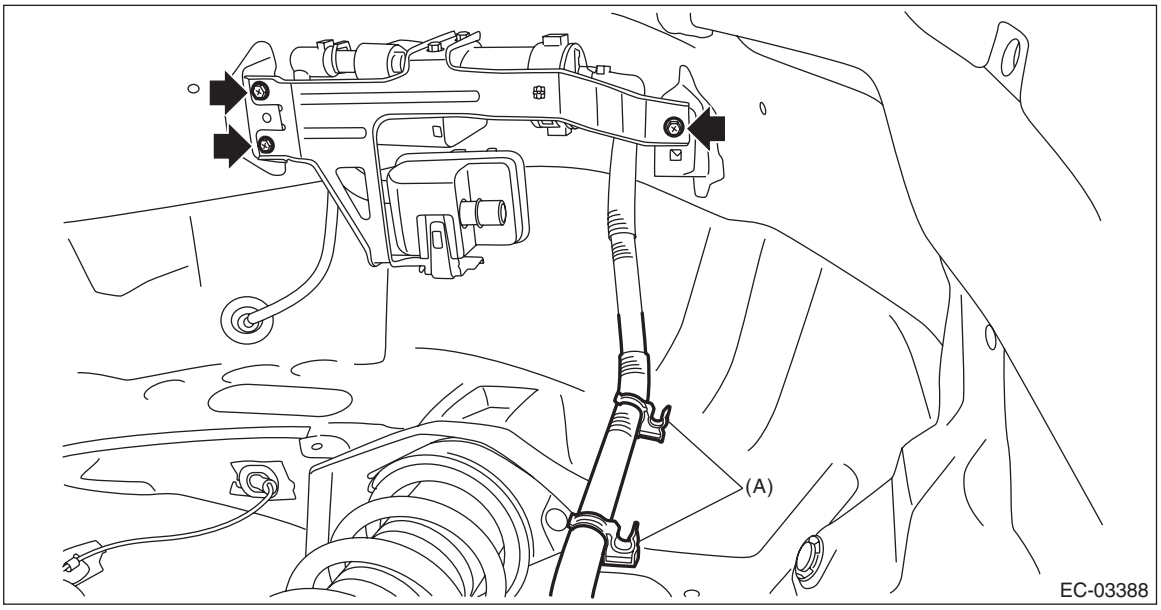


EC-03389

5) Install the leak check valve assembly to the vehicle.

Tightening torque:
7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

6) Install the drain tube B to the tube clamp (A).

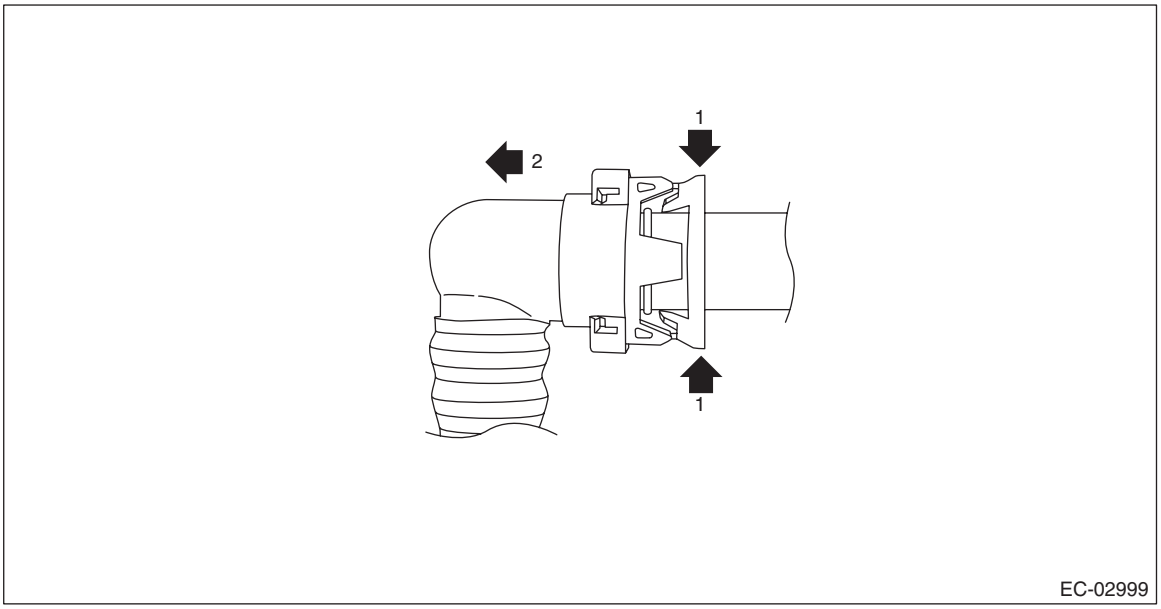


7) Install the rear mud guard LH. <Ref. to EI-33, INSTALLATION, Mud Guard.>
8) Lower the vehicle.
9) Install the rear wheel LH.
10) Connect the battery ground terminal. <Ref. to NT-5, BATTERY, NOTE, Note.>

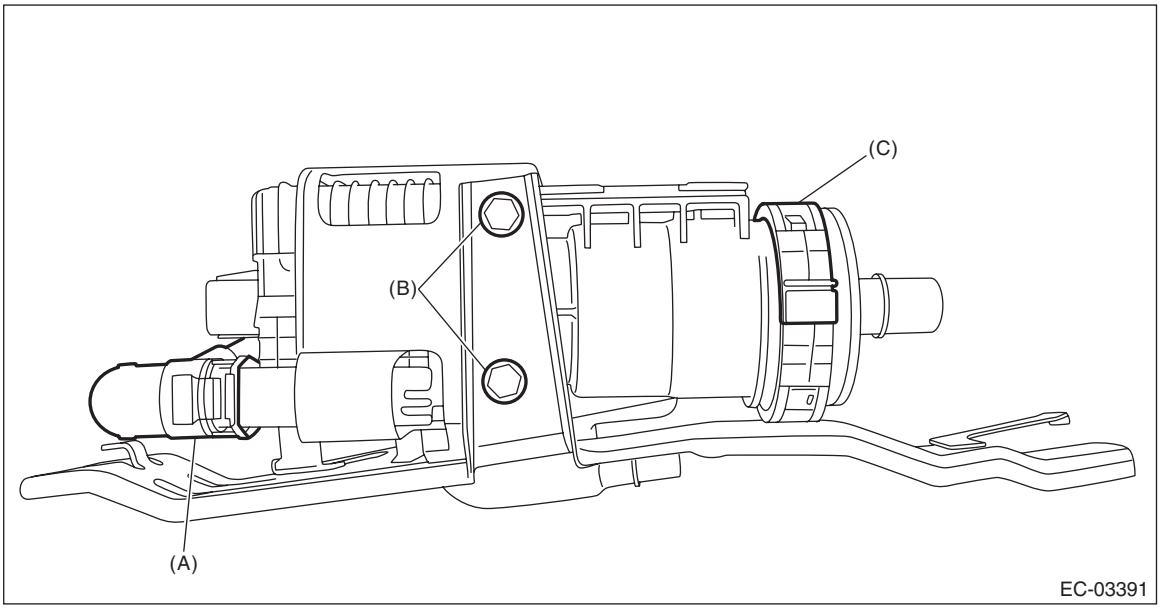
C: DISASSEMBLY

1) Disconnect the drain tube (A) from the leak check valve assembly.

NOTE:
Disconnect the quick connector as shown in the figure.

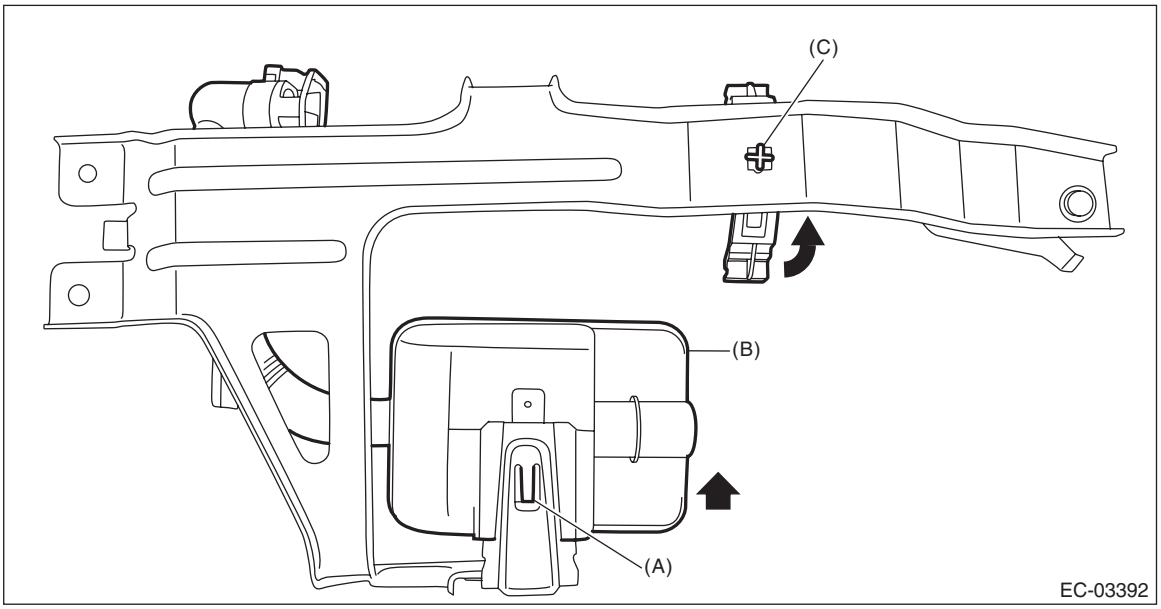


2) Remove the bolt (B) securing the leak check valve assembly to the drain bracket.
3) Remove the clamp B (C) which secures the leak check valve assembly, and remove the leak check valve assembly.



4) Release the claw (A), and slide the drain filter (B) from the drain bracket in the direction of the arrow to remove.

NOTE:
When removing the drain filter from the drain bracket, use the new drain bracket and drain filter to install.
5) Turn the clamp A (C) from the drain bracket in the direction of arrow to remove.

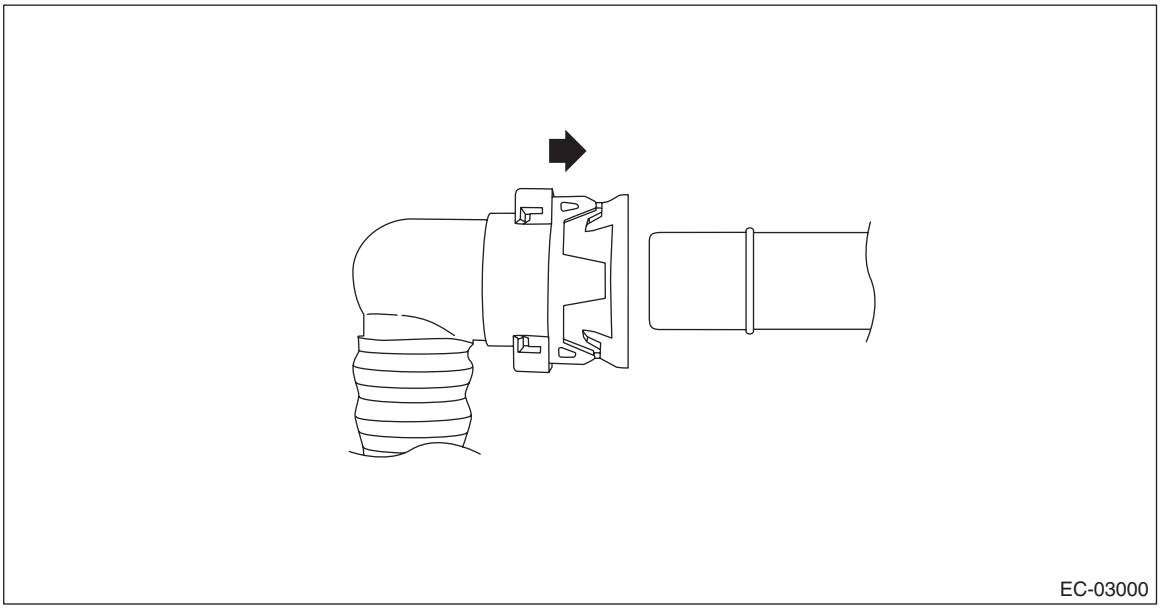


D: ASSEMBLY

Assemble in the reverse order of disassembly.

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:
• Use a new drain bracket and drain filter.
• Connect the quick connector as shown in the figure.

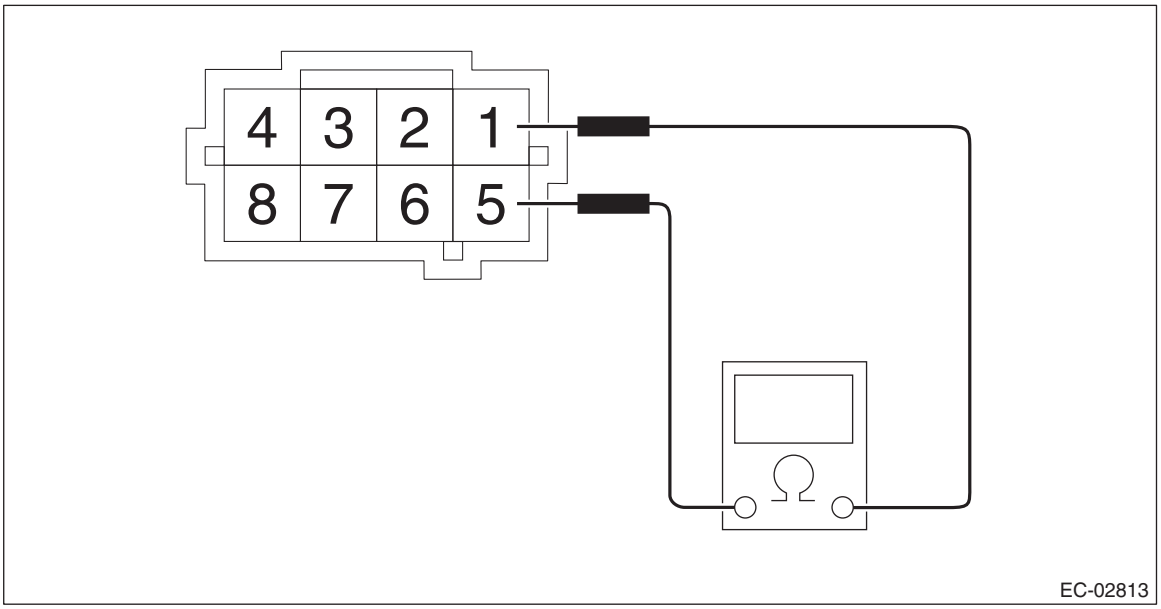


Tightening torque:
5.4 N·m (0.6 kgf-m, 4.0 ft-lb)

E: INSPECTION

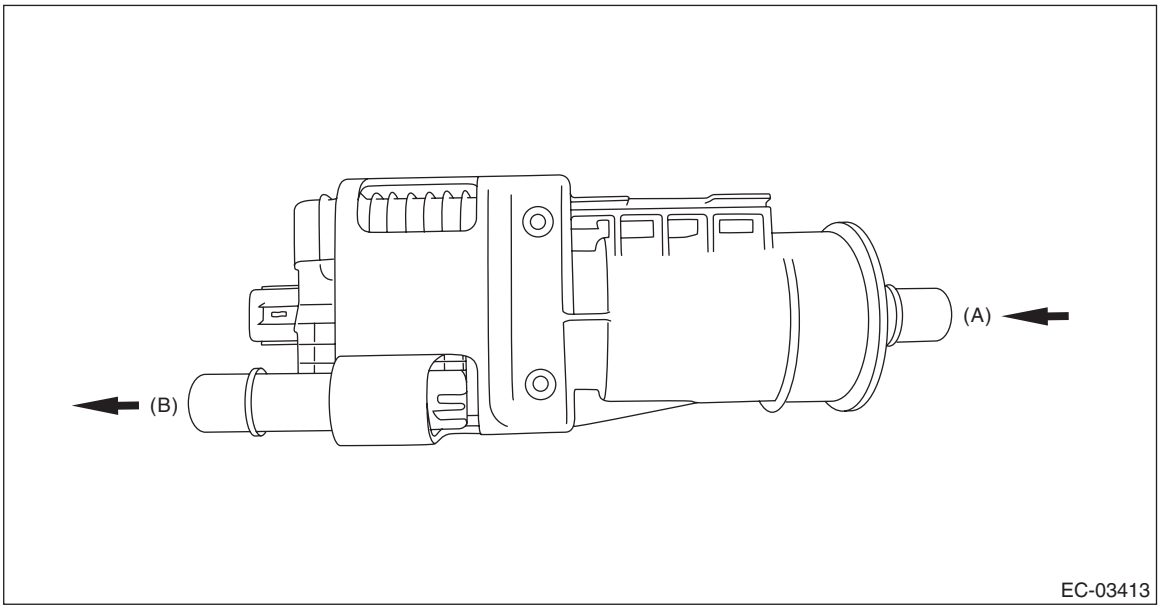
1. CHECK SWITCHING VALVE

1) Check the resistance between switching valve terminals.

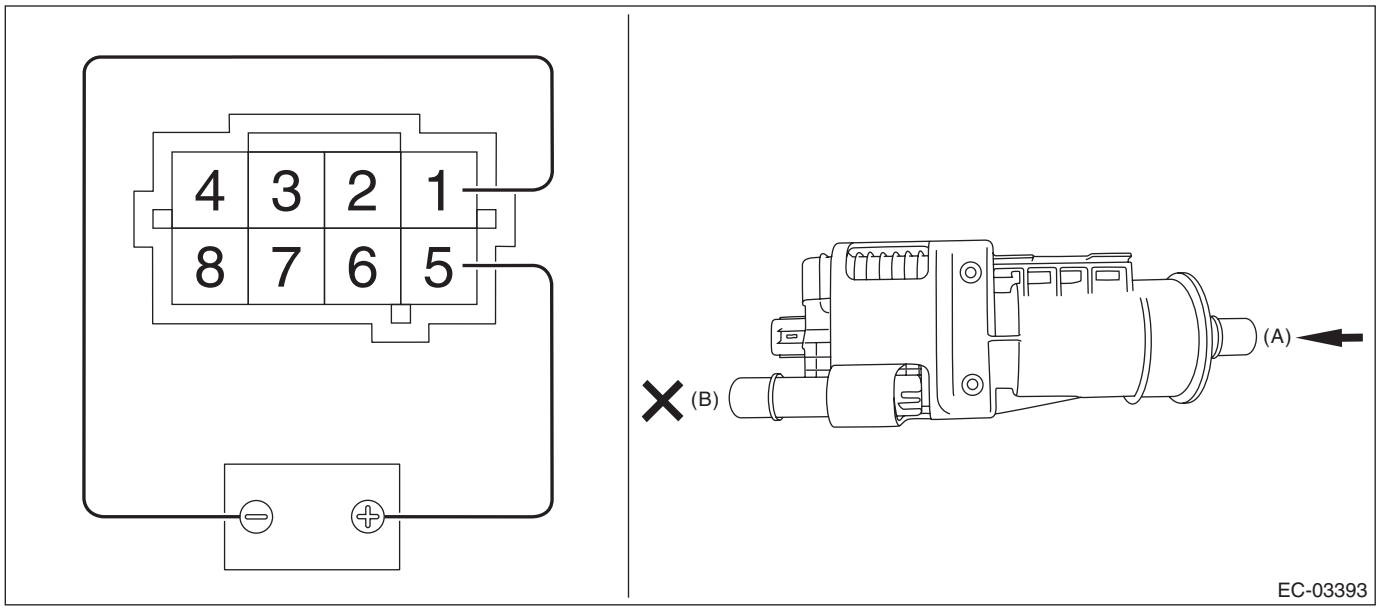


Terminal No.	Standard
1 and 5	27^{+3}_{-2} Ω (when 20°C (68°F))
	31±4 Ω (60°C (140°F))

2) Check that air is discharged from (B) when air is blown into (A).



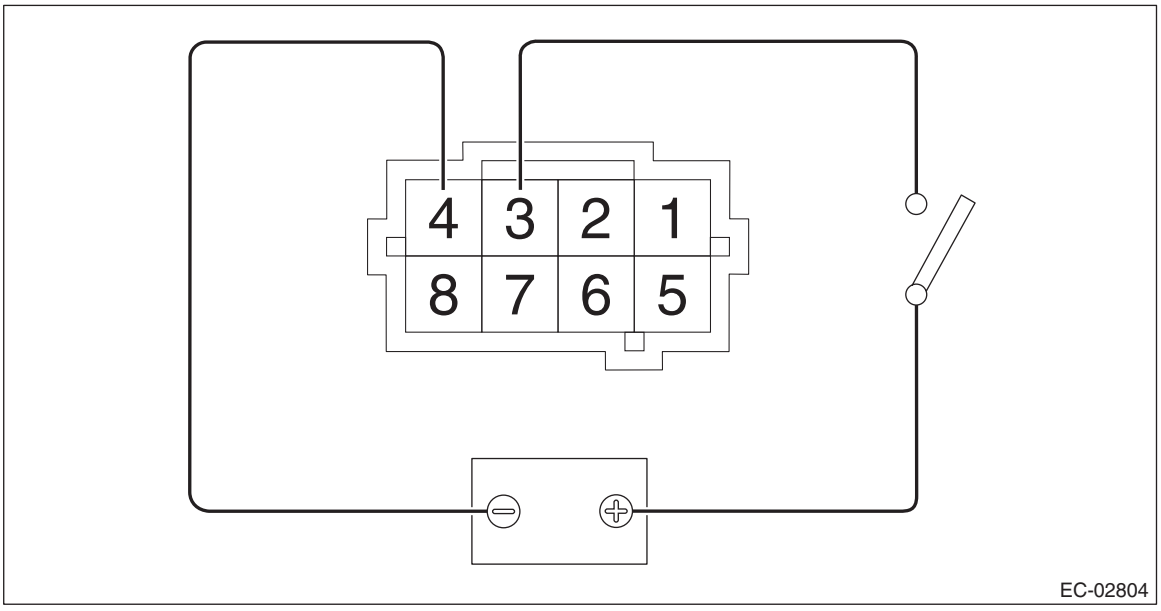
3) Connect the battery positive terminal to the terminal No. 5 and the battery negative terminal to the terminal No. 1. Check that air does not come out from (B) when air is blown into (A).



2. CHECK VACUUM PUMP

1) Connect the battery positive terminal to terminal No. 3 and the battery ground terminal to terminal No. 4, and inspect the vacuum pump operation.

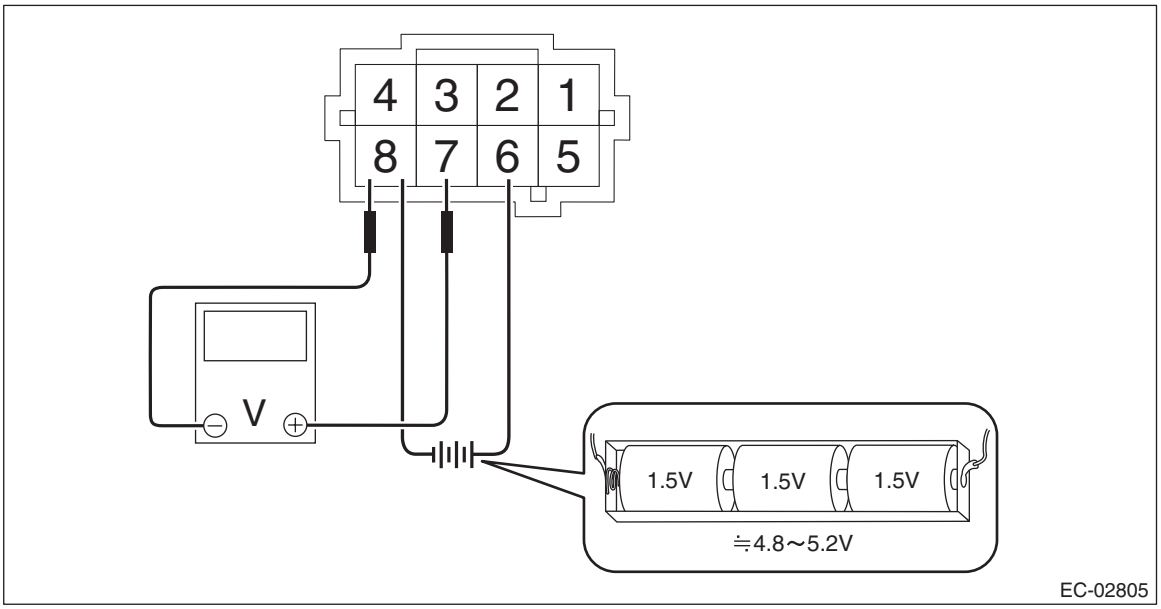
CAUTION:
Do not operate the vacuum pump for 5 minutes or more.



3. CHECK PRESSURE SENSOR

1) Connect dry-cell battery positive terminal to terminal No. 6 and dry-cell battery ground terminal to terminal No. 8, circuit tester positive terminal to terminal No. 7 and the circuit tester negative terminal to terminal No. 8.

NOTE:
- Use new dry-cell batteries.
- Using circuit tester, check the voltage of a single dry-cell battery is 1.6 V or more. And also check the voltage of three batteries in series is between 4.8 V and 5.2 V.
- For power supply, 5 V DC voltage source can also be used.

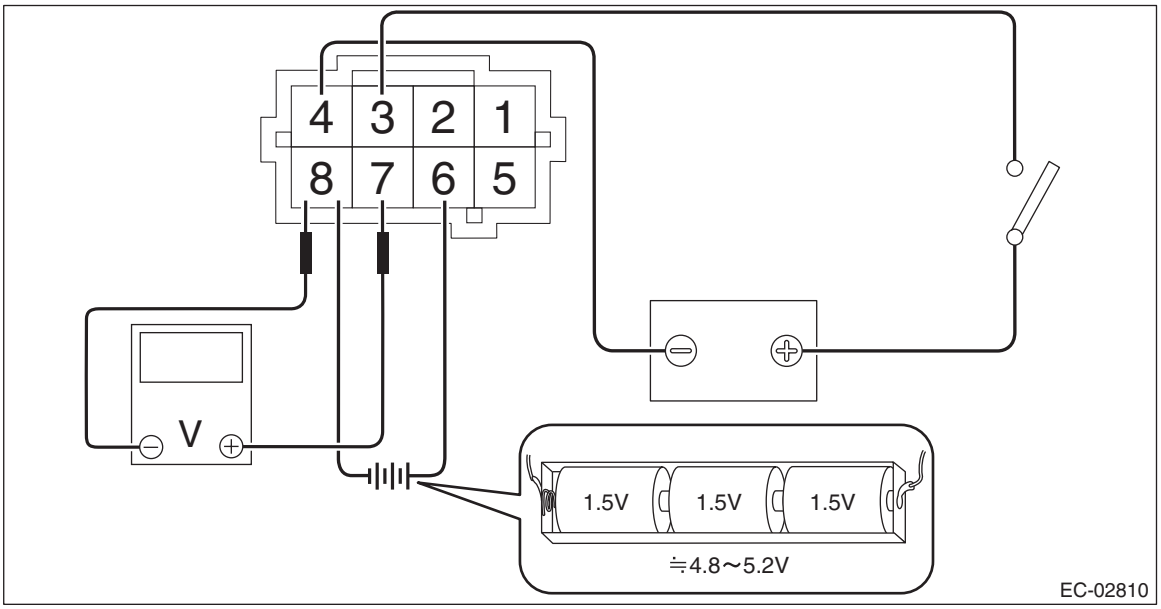


2) Check the voltage at a normal atmospheric pressure.

NOTE:
The atmospheric pressure at higher altitude is lower than normal. Therefore, the voltage is lower than the standard value.

Terminal No.	Standard
7 (+) and 8 (–)	Approx. 3.5 V (when 25°C (77°F))

3) Connect the battery positive terminal to terminal No. 3 and the battery ground terminal to terminal No. 4, and check that there is a voltage drop from the voltage measured in step 2) when the vacuum pump is operated.



4. OTHER INSPECTIONS

1) Check that the leak check valve assembly has no deformation, cracks or other damages.
2) Check that the tube has no cracks, damage or loose part.