

Leak Check Valve Assembly

EMISSION CONTROL (AUX. EMISSION CONTROL DEVICES)

11. Leak Check Valve Assembly

A: REMOVAL

Refer to “Canister” for removal procedures. <Ref. to EC(w/o STI)-7, REMOVAL, Canister.>

B: INSTALLATION

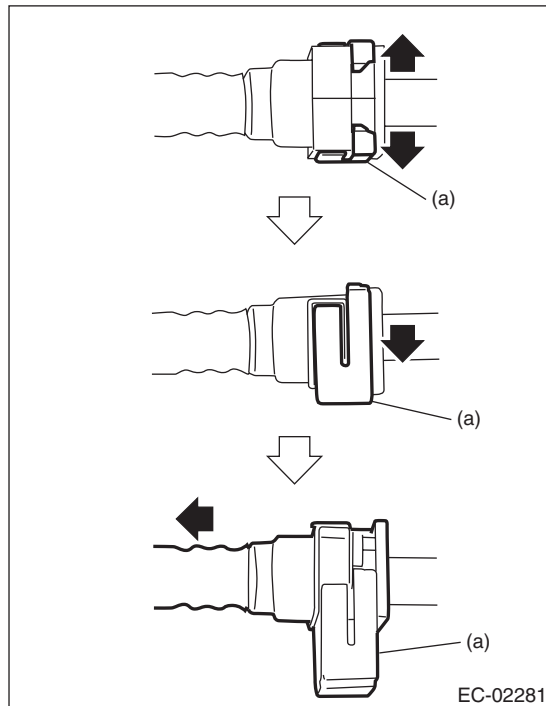
Refer to “Canister” for installation procedures. <Ref. to EC(w/o STI)-9, INSTALLATION, Canister.>

C: DISASSEMBLY

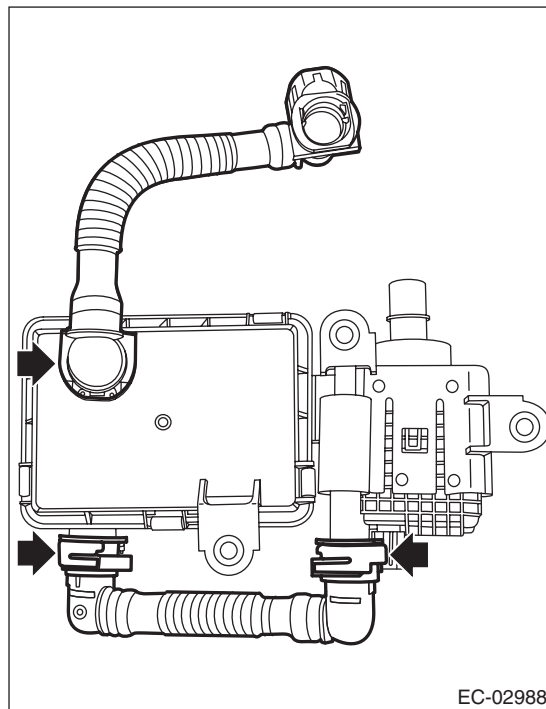
Disconnect the drain tube from the leak check valve assembly.

NOTE:

Disconnect the quick connector as shown in the figure.



(a) Retainer



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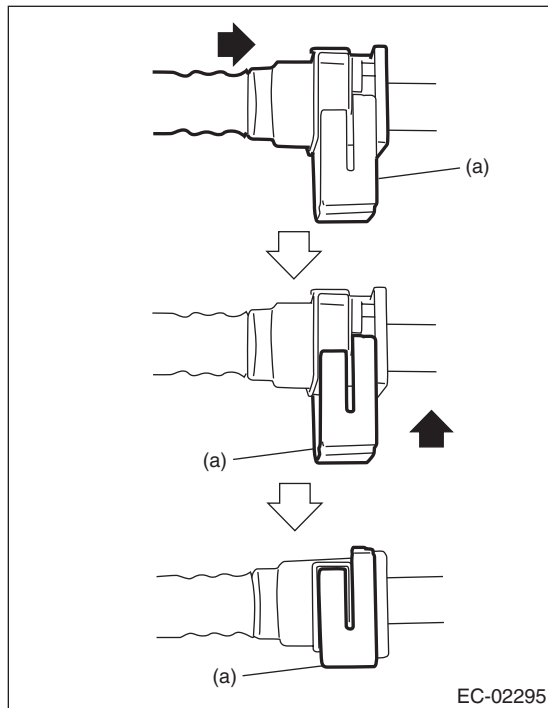
D: ASSEMBLY

Assemble the parts in the reverse order of disassembly while being careful of the following.

- Connect the quick connector as shown in the figure.

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.

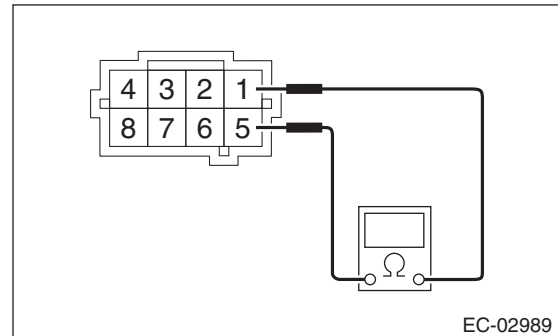


(a) Retainer

E: INSPECTION

1. CHECK SWITCHING VALVE

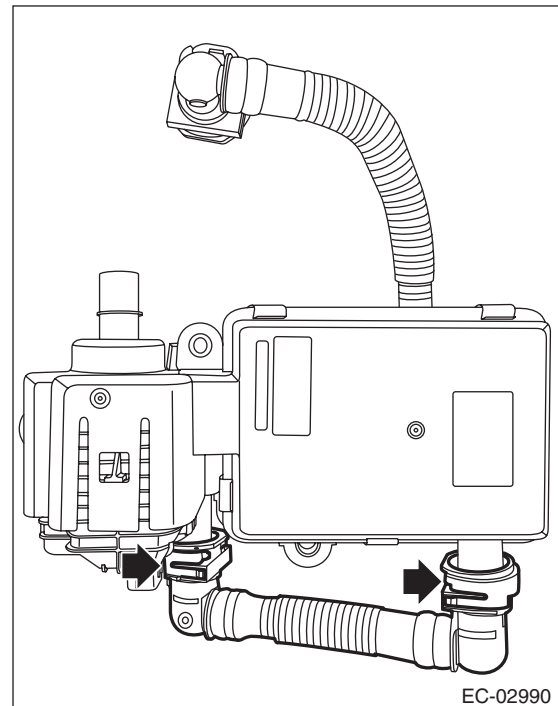
- 1) Check the resistance between switching valve terminals.



EC-02989

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

- 2) Disconnect the drain tube from the leak check valve assembly.

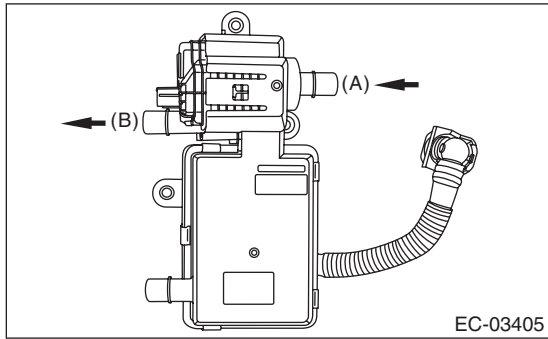


EC-02990

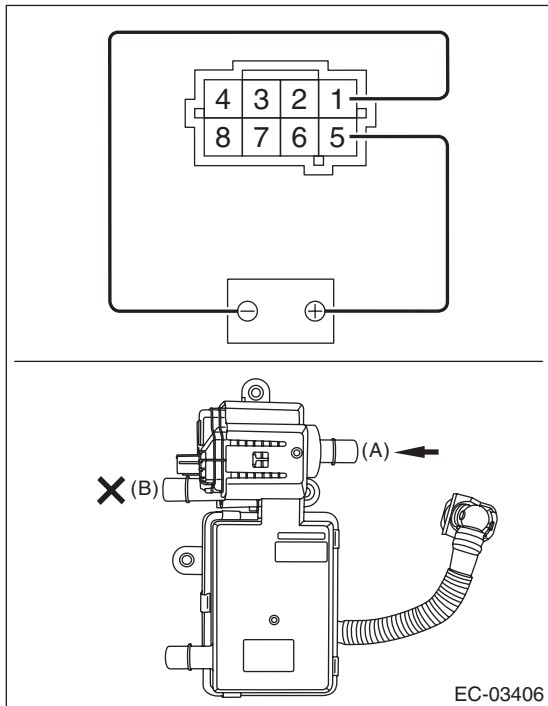
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3) Check that air is discharged from (B) when air is blown into (A).



4) 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).

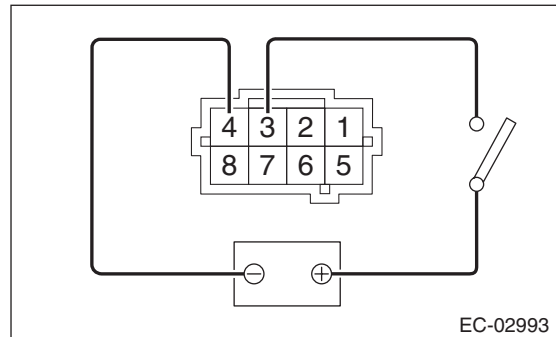


2. CHECK VACUUM PUMP

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.

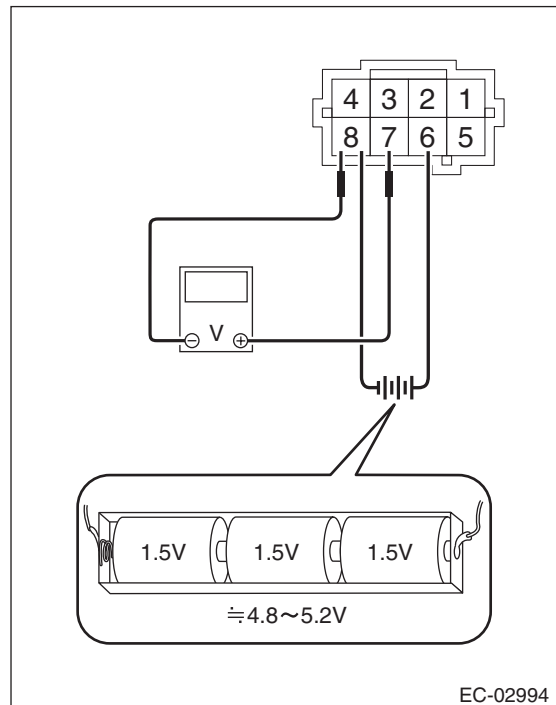


3. CHECK PRESSURE SENSOR

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.



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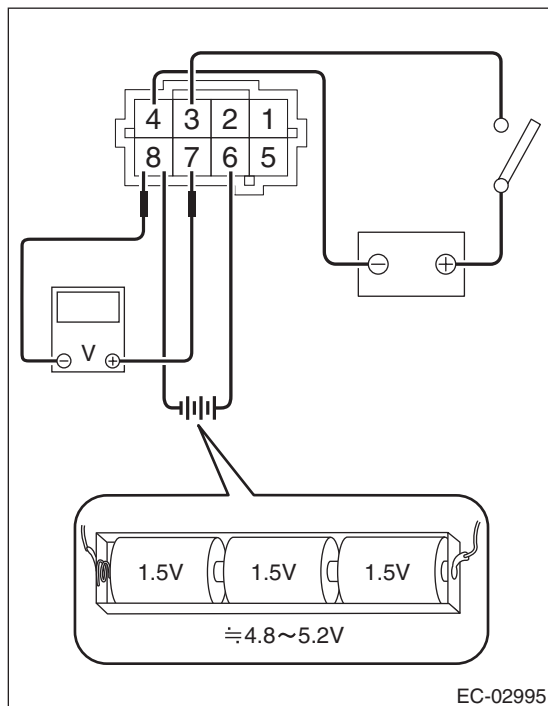
2) Check the voltage at a normal atmospheric pressure.

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

Check that the drain tube has no cracks, damage or loose part.