

# 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(STI)-7, REMOVAL, Canister.>

### B: INSTALLATION

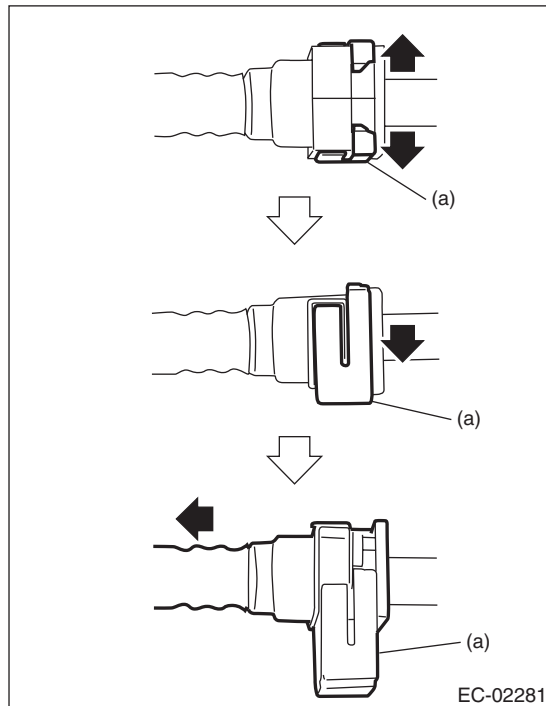
Refer to “Canister” for installation procedures. <Ref. to EC(STI)-9, INSTALLATION, Canister.>

### C: DISASSEMBLY

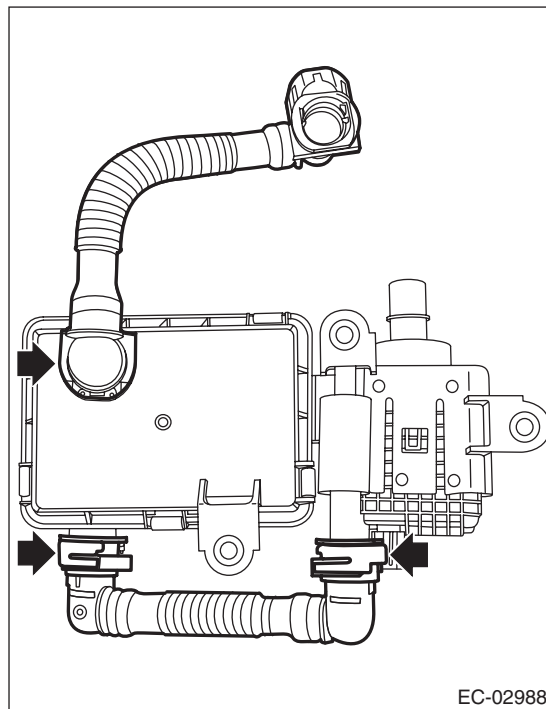
Disconnect the drain tube from the leak check valve assembly.

#### NOTE:

Disconnect the quick connector as shown in the figure.



(a) Retainer



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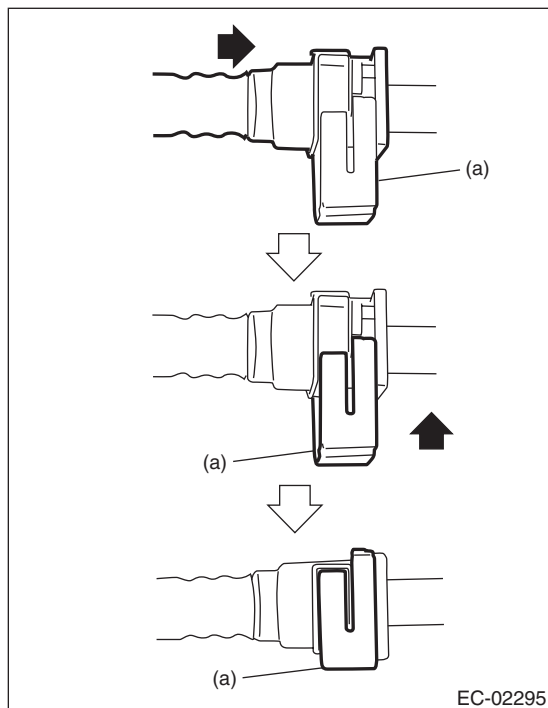
## D: ASSEMBLY

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.



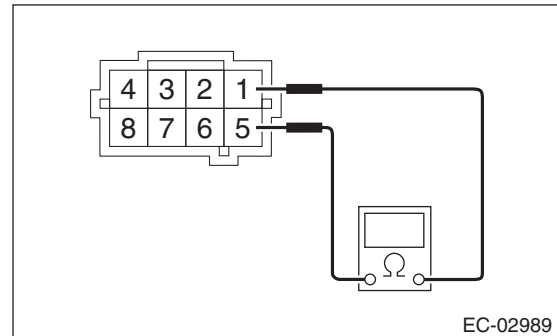
(a) Retainer

EC-02295

## E: INSPECTION

### 1. CHECK SWITCHING VALVE

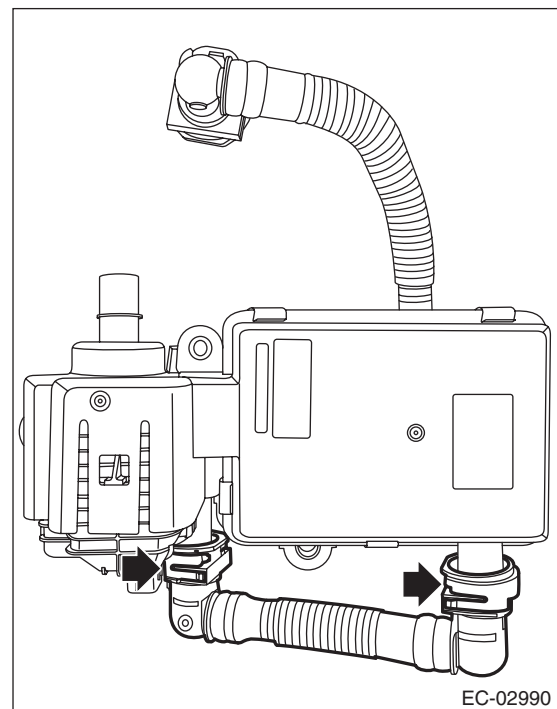
- 1) Check the resistance between switching valve terminals.



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.

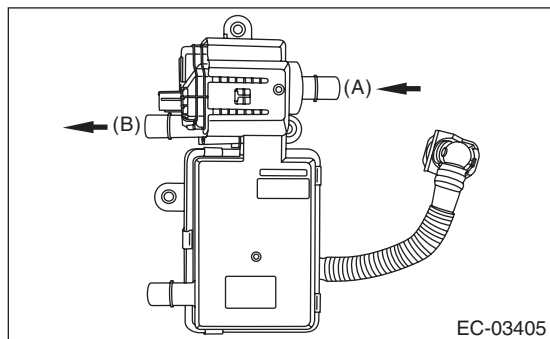


EC-02990

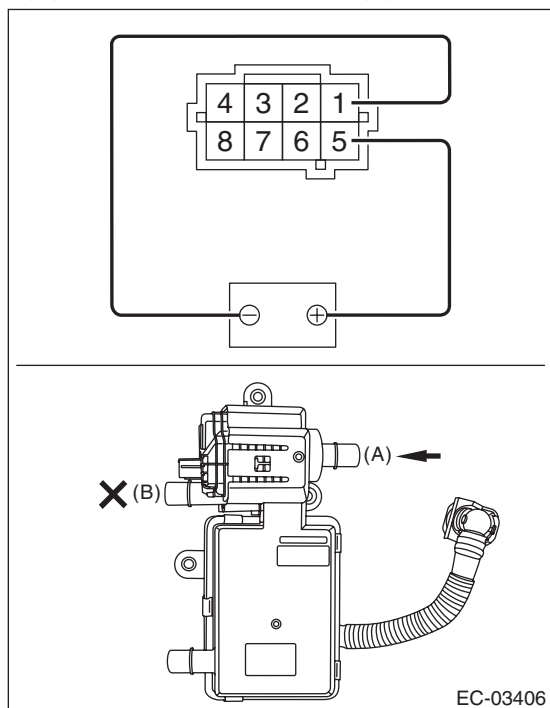
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3) Check that air is discharged from (B) when air is blown into (A).



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).

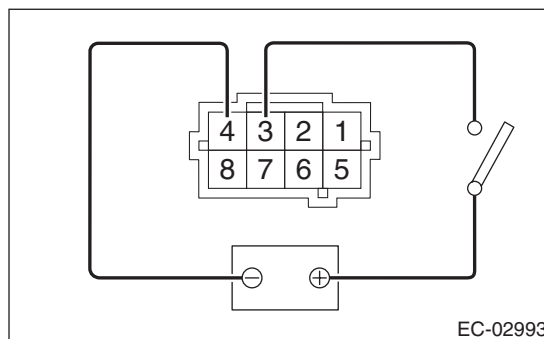


## 2. CHECK VACUUM PUMP

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.

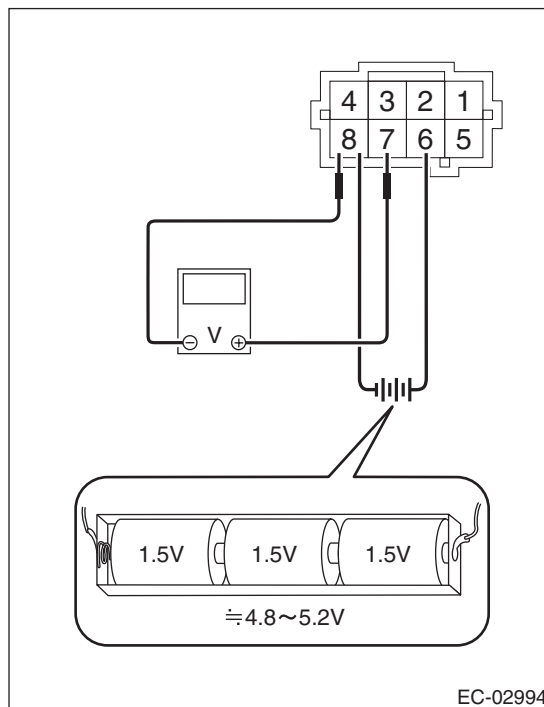


## 3. CHECK PRESSURE SENSOR

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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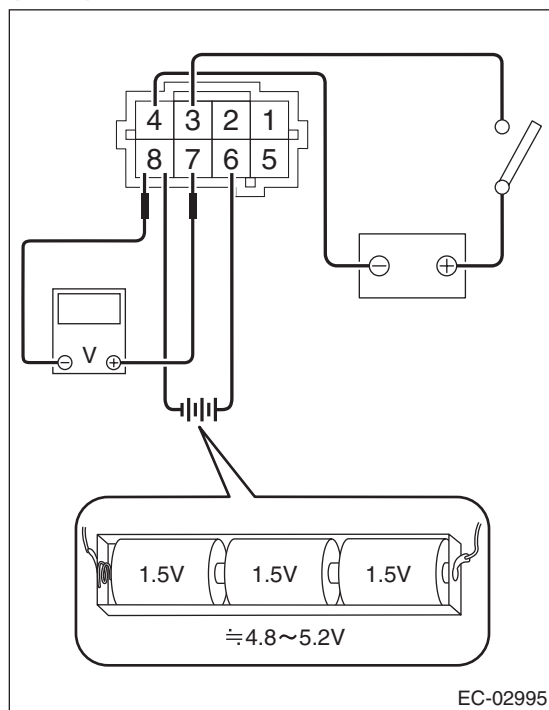
2) Check the voltage at a normal atmospheric pressure.

### 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.