

12V Battery Relay

STARTING/CHARGING SYSTEMS

8. 12V Battery Relay

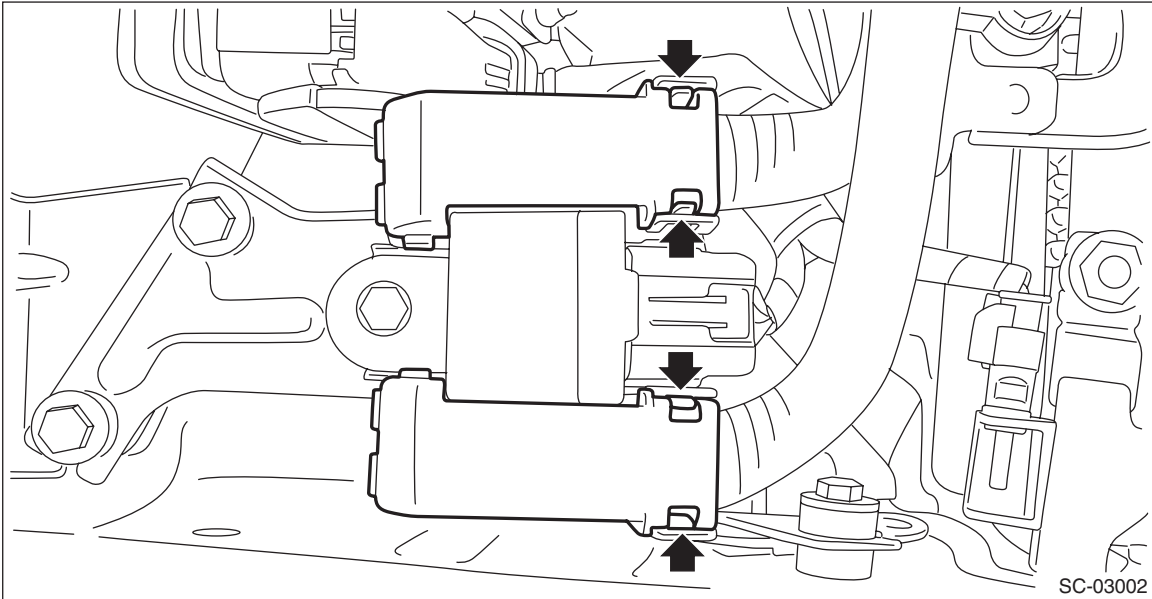
A: REMOVAL

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.

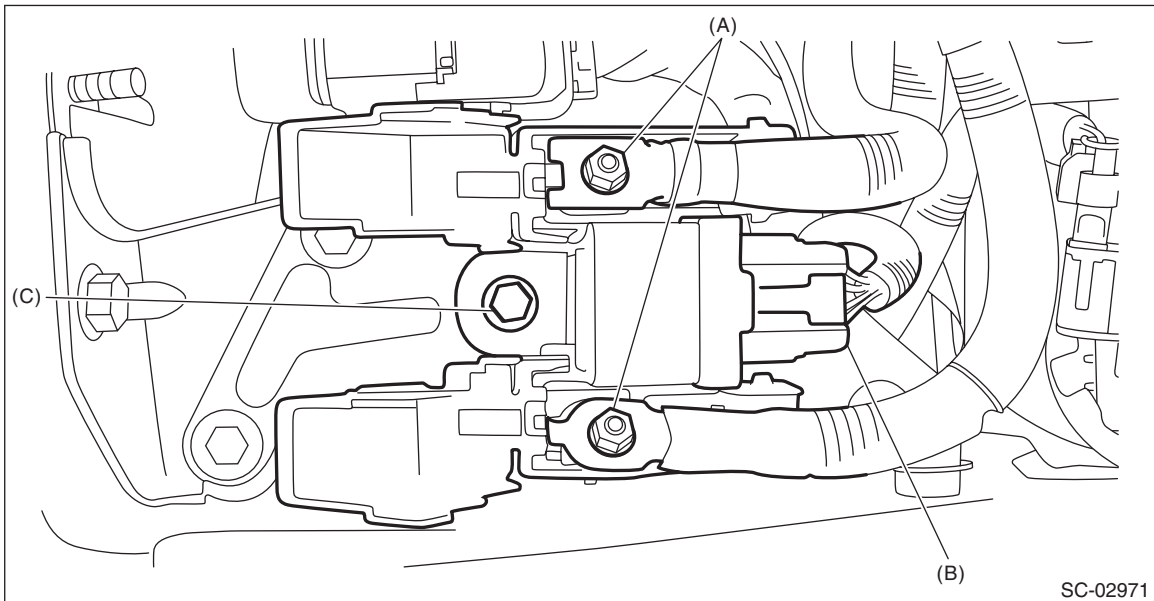
2) Open the 12V battery relay cover RH and the 12V battery relay cover LH.



3) Disconnect the battery cable assembly terminal (A) from the 12V battery relay.

4) Disconnect the connector (B) from the 12V battery relay, and remove the bolt (C) holding the 12V battery relay.

5) Remove the 12V battery relay from the 12V battery relay bracket assembly.

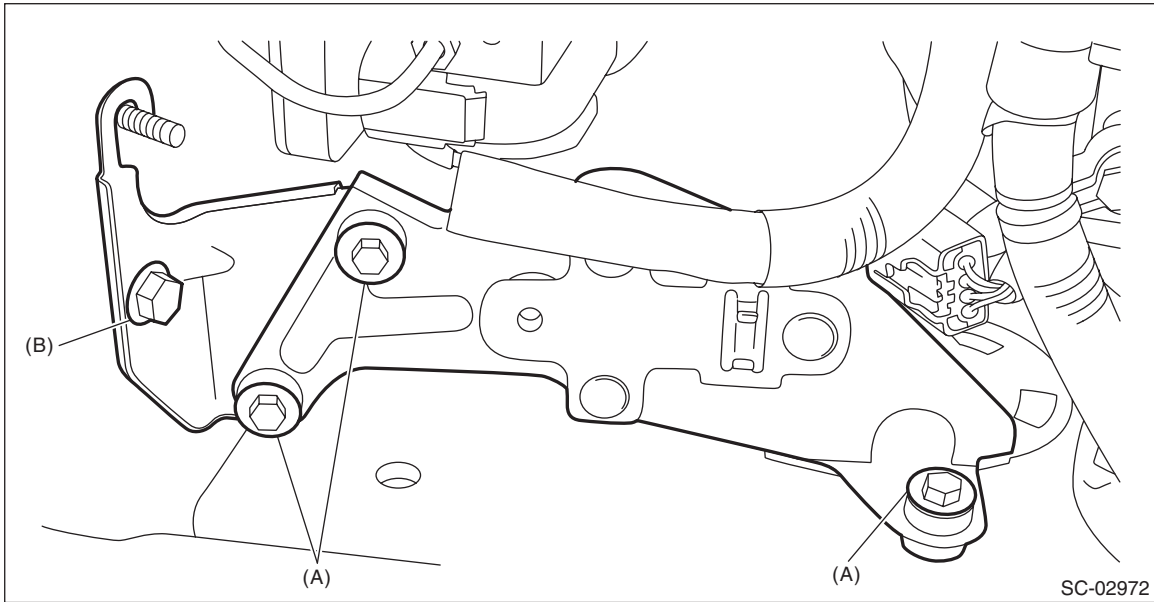


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6) Remove the bolt (A) securing the 12V battery relay bracket assembly, and remove the 12V battery relay bracket assembly.

7) Remove the bolt (B) securing the 12V battery relay bracket No. 2 to the vehicle, and remove the 12V battery relay bracket No. 2.



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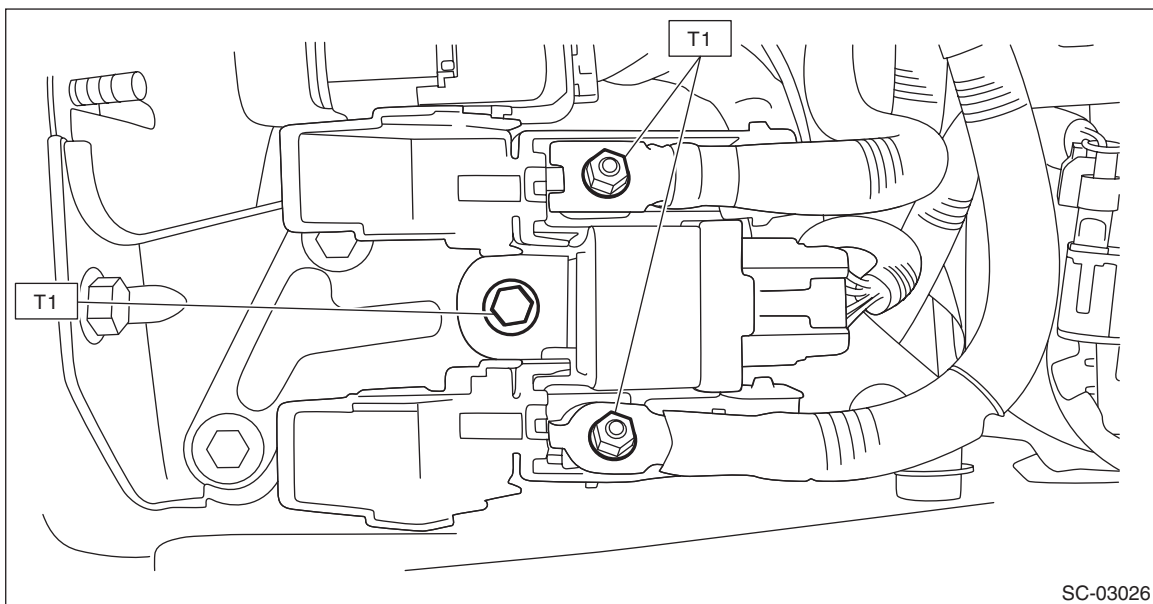
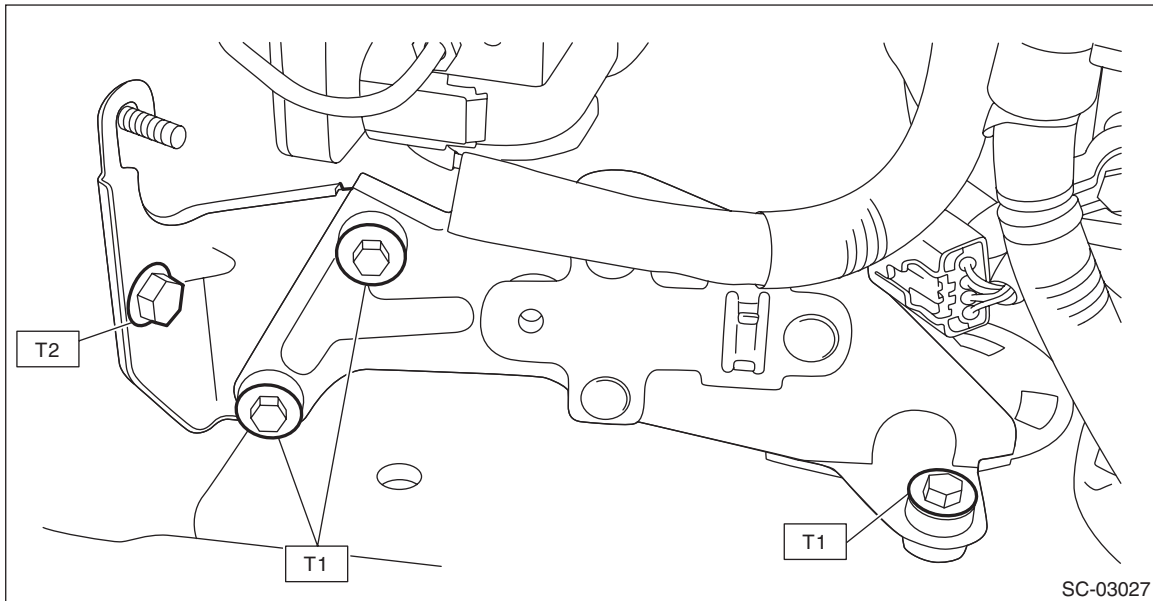
B: INSTALLATION

Install in the reverse order of removal.

Tightening torque:

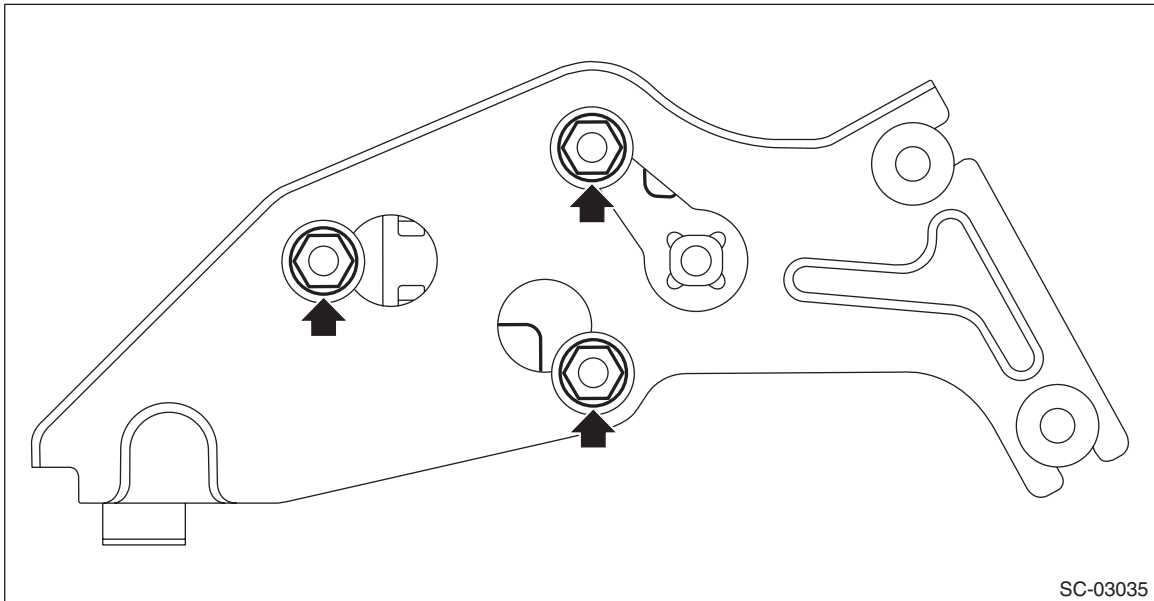
T1: 7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

T2: 33 N·m (3.4 kgf-m, 24.3 ft-lb)



C: DISASSEMBLY

Remove the 12V battery relay bracket No. 3 from the 12V battery relay bracket No. 1.

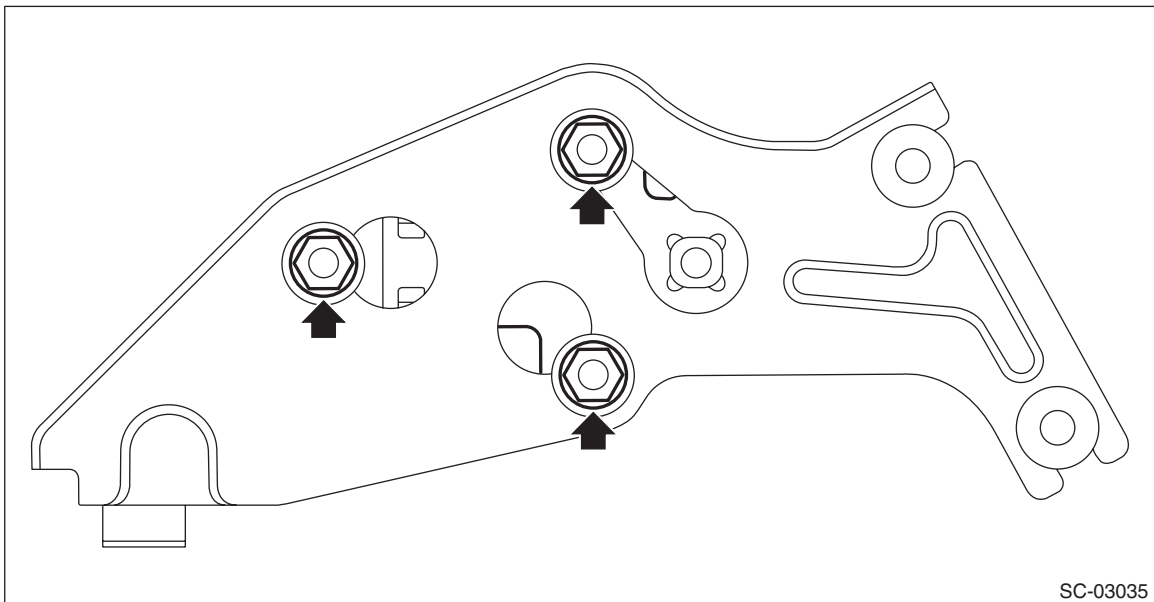


D: ASSEMBLY

Install the 12V battery relay bracket No. 3 to the 12V battery relay bracket No. 1.

Tightening torque:

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

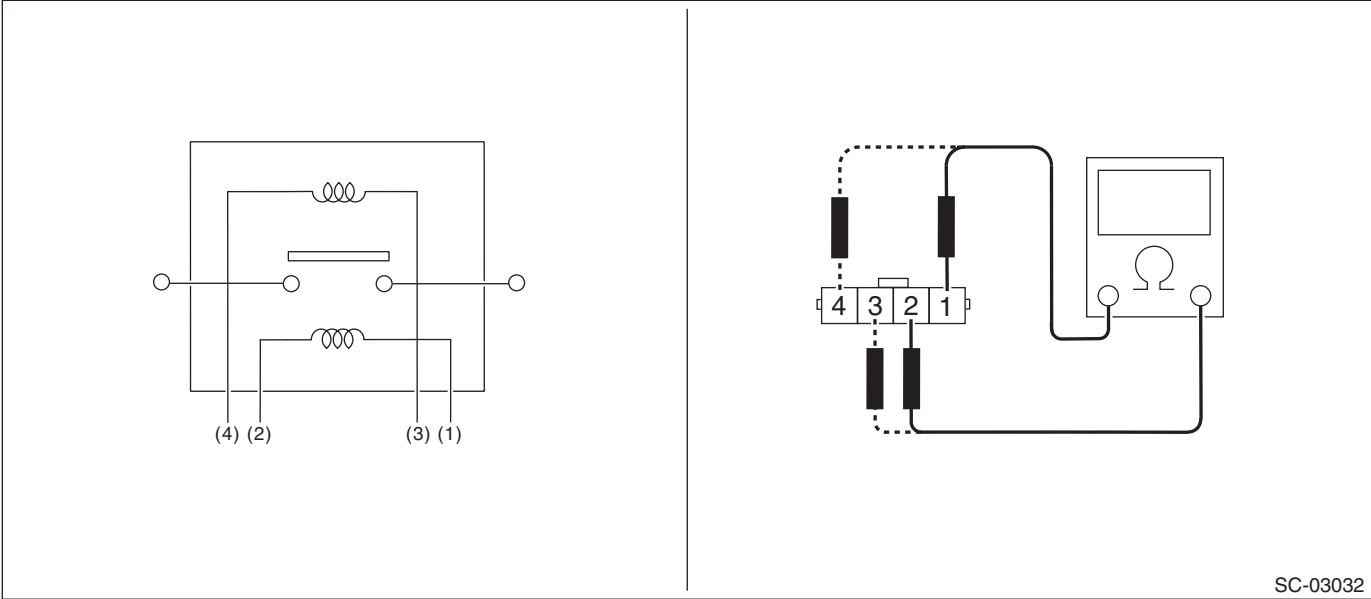


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E: INSPECTION

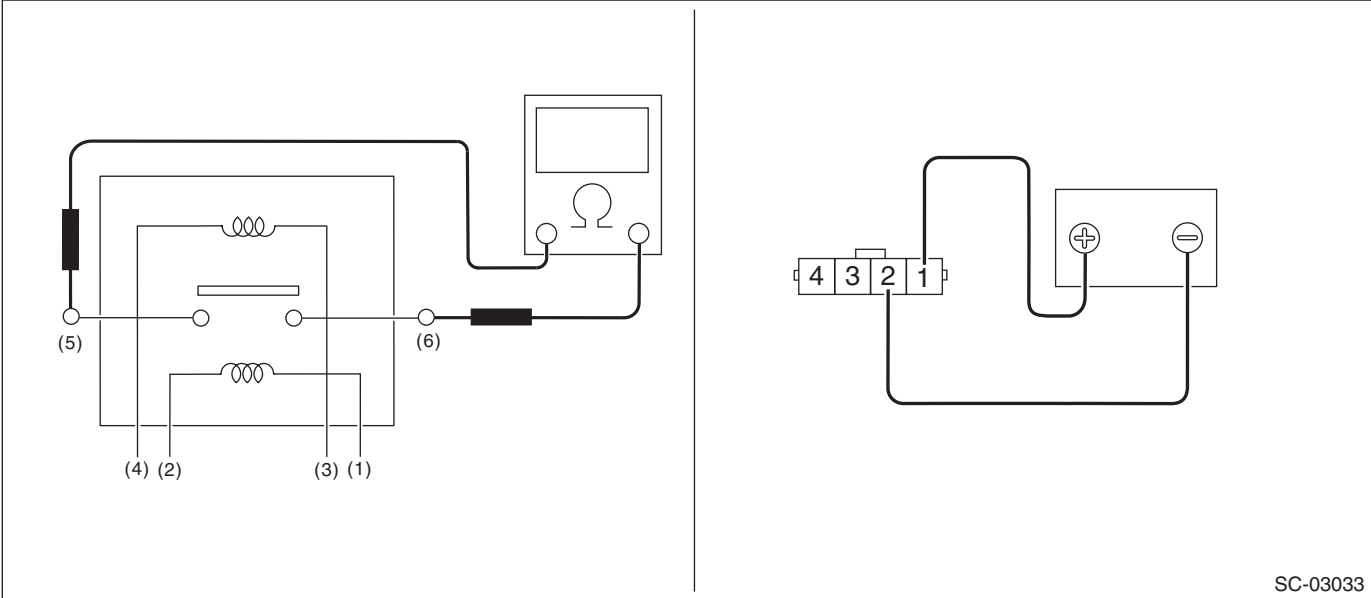
- 1) Check that the 12V battery relay has no deformation, cracks or other damages.
- 2) Measure the resistance between the 12V battery relay terminals.



Terminal No.	Standard
1 and 2	Approx. 4.3 Ω (when 20°C (68°F))
3 and 4	Approx. 4.3 Ω (when 20°C (68°F))

- 3) Connect battery positive terminal to terminal No. 1 and battery ground terminal to terminal No. 2, and measure the resistance between the terminal No. 5 and the terminal No. 6.

CAUTION:
To avoid burning a magnetizing coil, continuity time should be within 1 second.

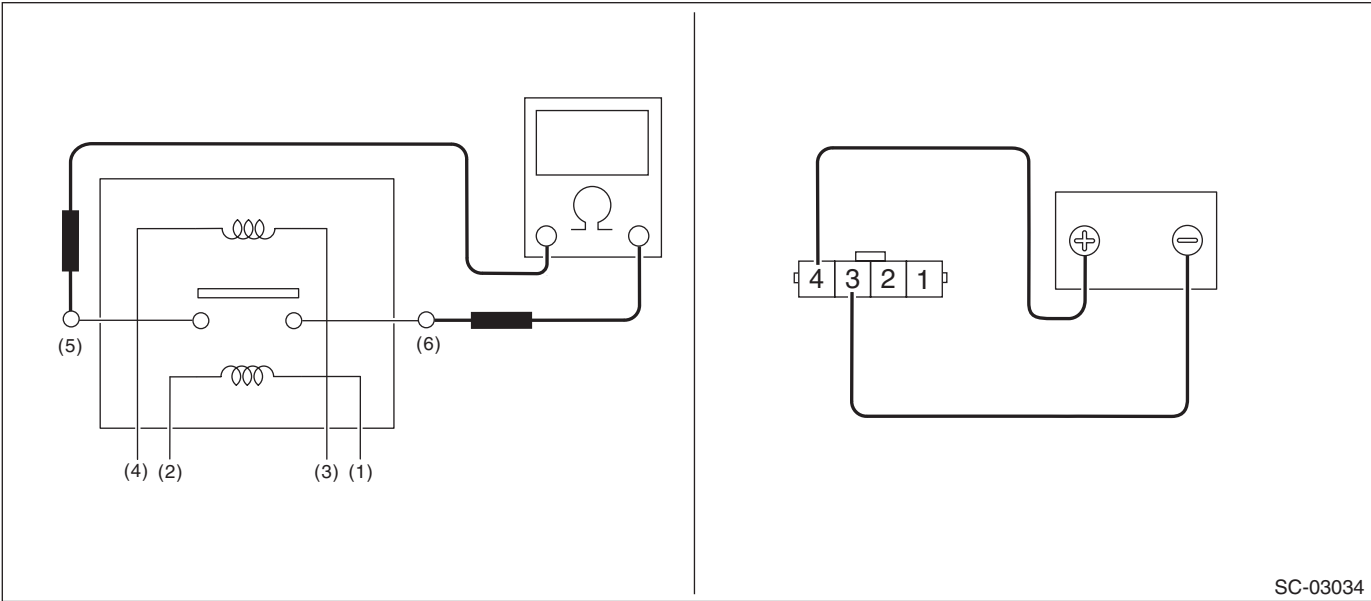


Terminal No.	Standard
5 and 6	Less than 1 Ω

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4) Connect battery positive terminal to terminal No. 4 and battery ground terminal to terminal No. 3, and measure the resistance between the terminal No. 5 and the terminal No. 6.

CAUTION:
To avoid burning a magnetizing coil, continuity time should be within 1 second.



Terminal No.	Standard
5 and 6	1 MΩ or more