

8. 12V Battery Relay

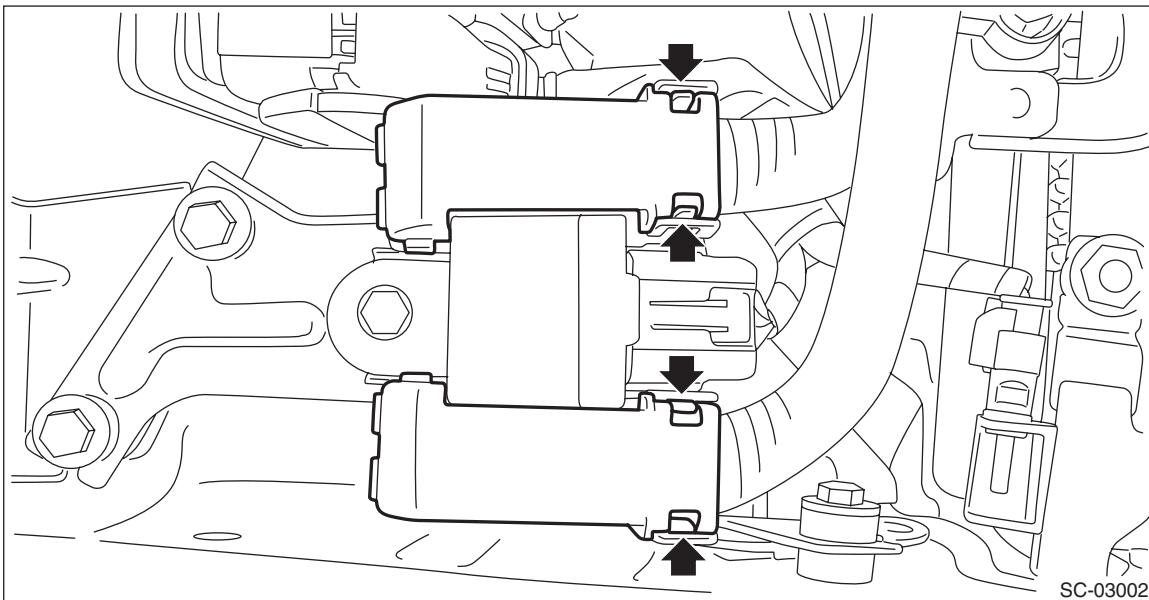
A: REMOVAL

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

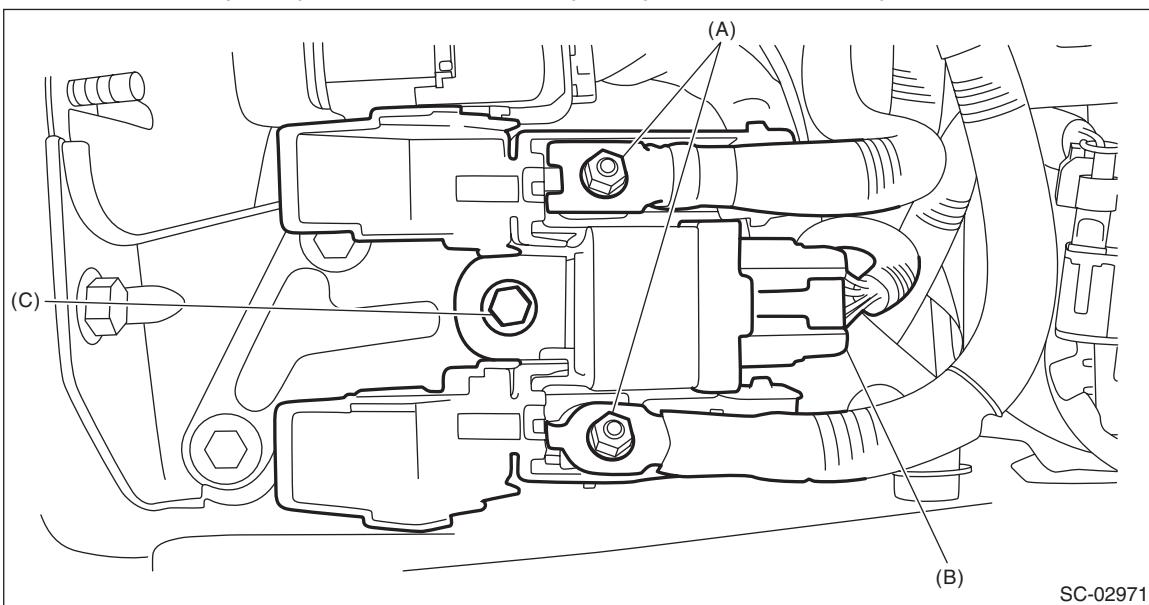
NOTE:

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.



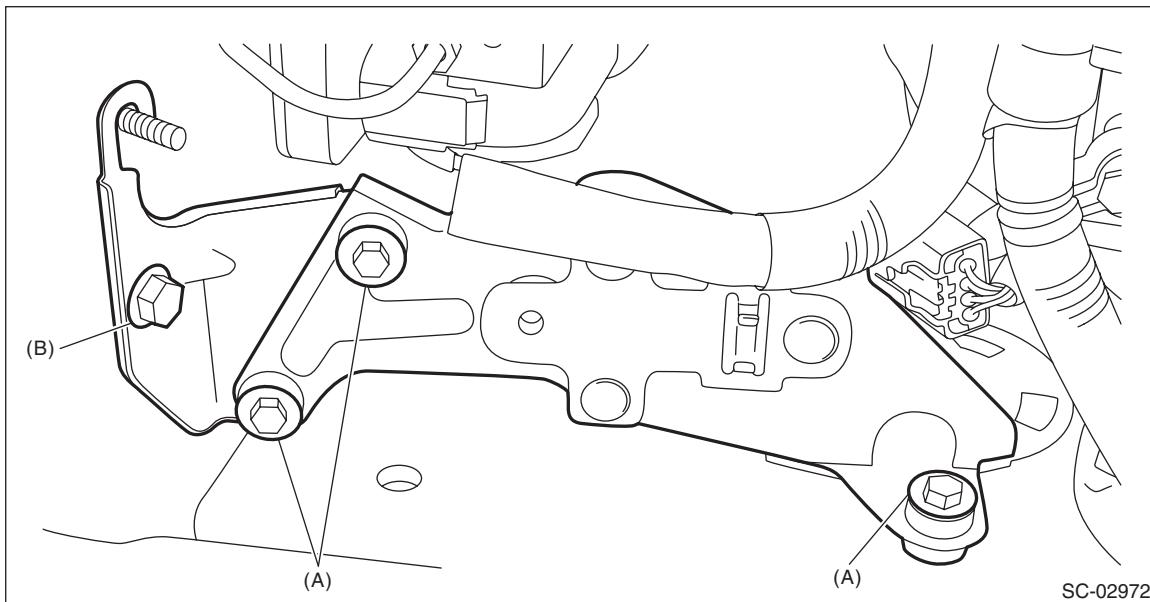
- 3) Disconnect the battery cable assembly terminal (A) from the 12V battery relay.
- 4) Disconnect the connector (B) from the 12V battery relay, and remove the bolt (C) holding the 12V battery relay.
- 5) Remove the 12V battery relay from the 12V battery relay bracket assembly.



12V Battery Relay

STARTING/CHARGING SYSTEMS

- 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.



12V Battery Relay

STARTING/CHARGING SYSTEMS

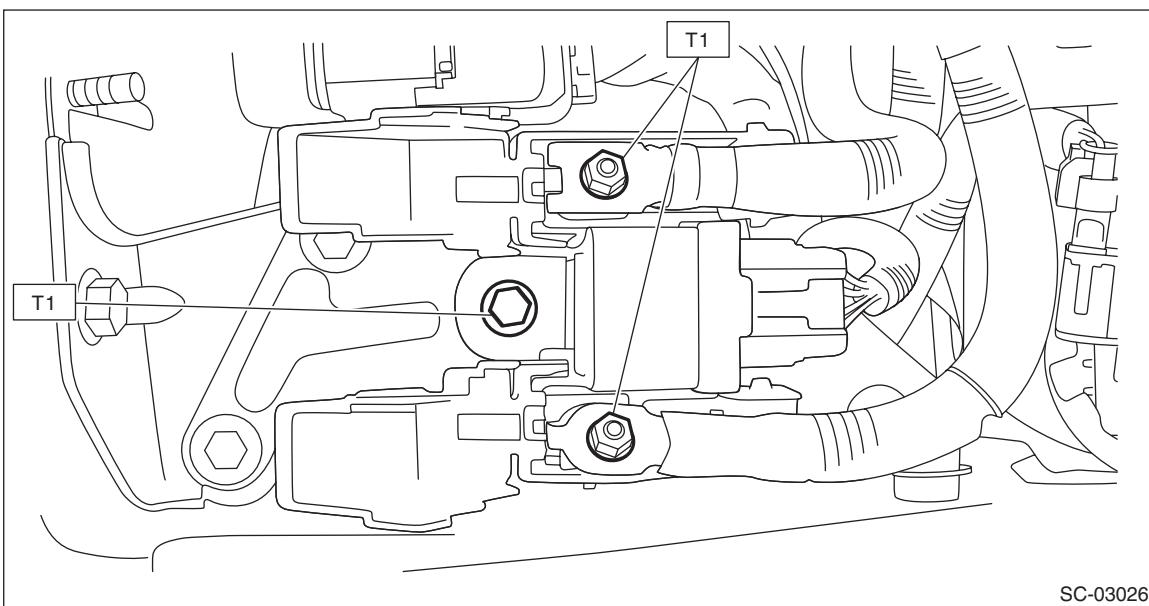
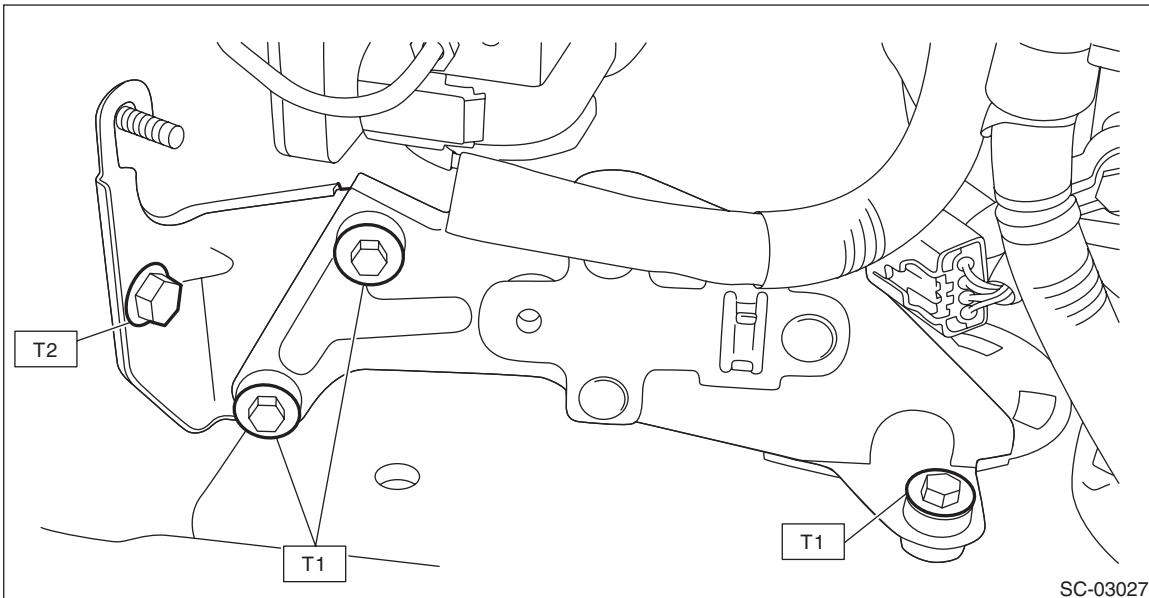
B: INSTALLATION

Install in the reverse order of removal.

Tightening torque:

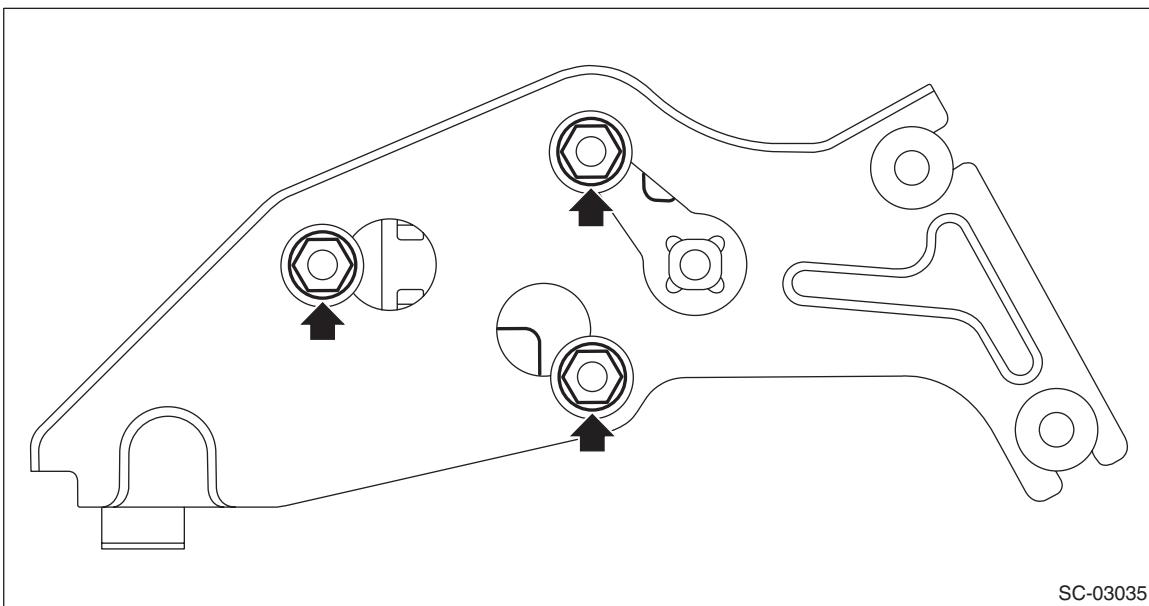
T1: 7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

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.

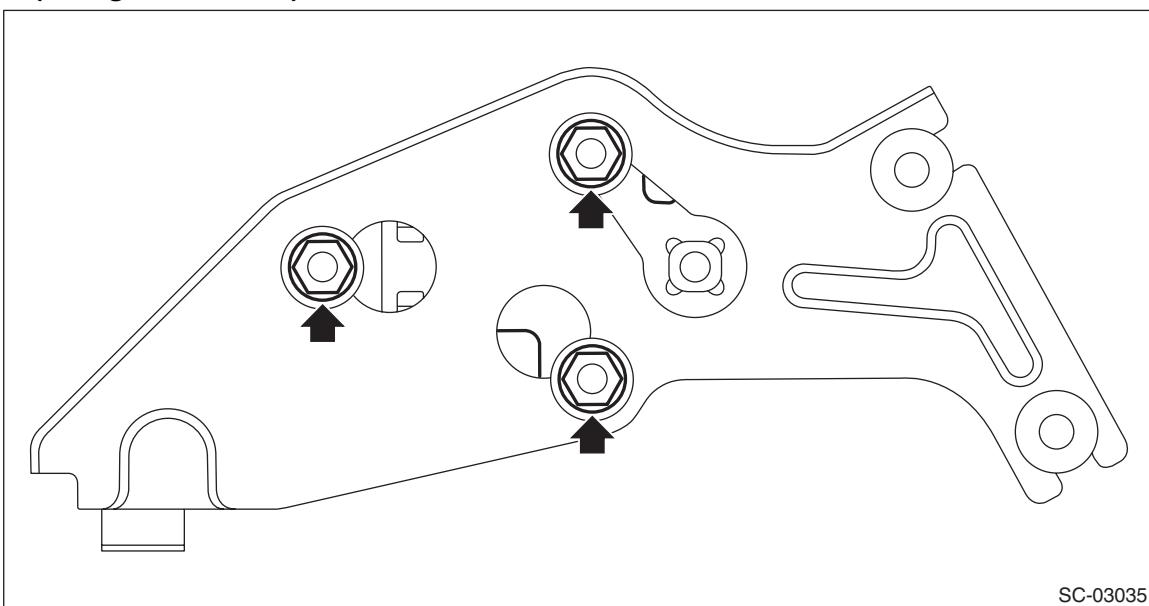


D: ASSEMBLY

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)

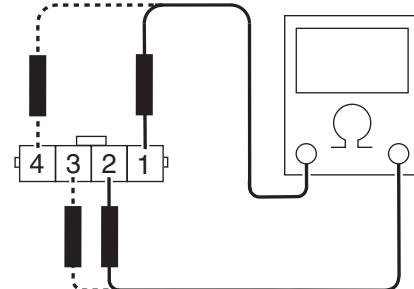
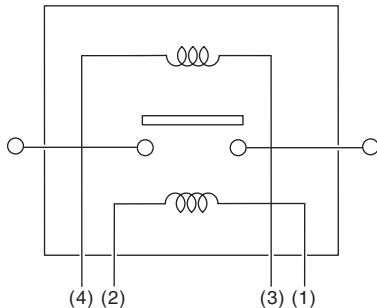


12V Battery Relay

STARTING/CHARGING SYSTEMS

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.



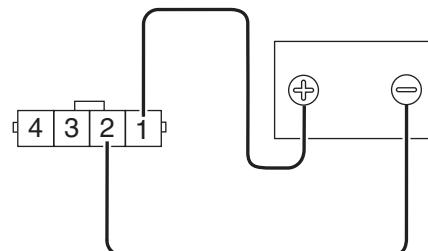
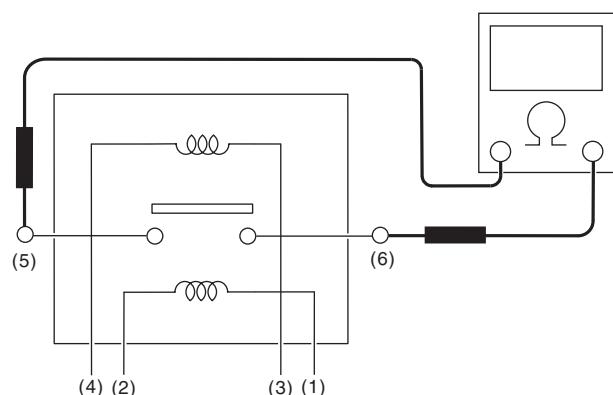
SC-03032

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.



SC-03033

Terminal No.	Standard
5 and 6	Less than 1 Ω

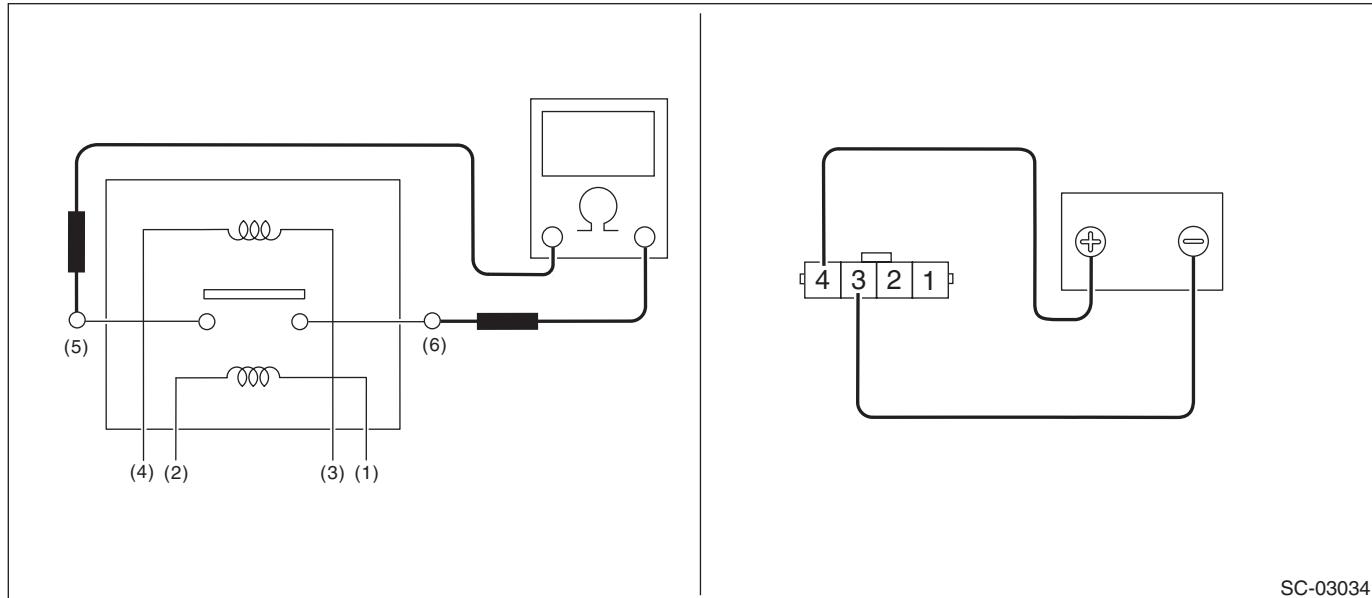
12V Battery Relay

STARTING/CHARGING SYSTEMS

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