

DTC	C0279/12	SHORT CIRCUIT IN ABS SOLENOID RELAY CIRCUIT
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This relay supplies power to each ABS solenoid. After the ignition switch is turned ON, if the initial check is OK, the relay turns on.

*1 Solenoid relay contact ON condition:
All of the solenoid terminal voltage is half of IG terminal voltage or more.

*2 Solenoid relay contact OFF condition:
All of the solenoid terminal voltage is half of IG terminal voltage or less.

Brake Actuator Assy
(Skid Control ECU with Actuator)

Wiring diagram showing the connection between the vehicle's electrical system and the Brake Actuator Assembly (Skid Control ECU with Actuator).

Vehicle Electrical System Components:

- Battery
- FL MAIN (Fuse)
- Engine Room J/B (Junction Box) containing:
 - 1G (Terminal)
 - 2 (Terminal)
 - 1 (Terminal)
 - 1A (Terminal)
 - ABS No. 2 (Relay)
- Engine Room R/B (Relay Box) containing:
 - 1 (Terminal)
 - 2 (Terminal)
 - 120A ALT (Relay)

Brake Actuator Assembly Components:

- Solenoid Relay
- SFRH, SFLH, SRRH, SRLH, SFRR, SFLR, SRRR, SRLR (Solenoid Coils)

Wiring Connections:

- Power (W):** Connects from the Battery/FL MAIN line to terminal 1 of the Solenoid Relay (+BS).
- Ground (GND):** Connects from the Engine Room R/B (120A ALT) to terminal 2 of the Solenoid Relay (GND).
- W-B (Wire to Battery):** Connects from the Engine Room J/B (1A) to terminal 24 of the Solenoid Relay (GND).
- B-G (Battery Ground):** Connects from the Engine Room J/B (2) to the Solenoid Relay.

INSPECTION PROCEDURE

HINT:

Start the inspection from step 1 in case of using the hand-held tester and start from step 2 in case of not using the hand-held tester.

1 PERFORM ACTIVE TEST BY HAND-HELD TESTER(ABS SOLENOID RELAY OPERATION)

- (a) Select the "ABS SOL RELAY" in the ACTIVE TEST and operate the ABS solenoid relay on the hand-held tester.
- (b) Check the operation sound of the ABS solenoid relay when operating it with the hand-held tester.

OK:

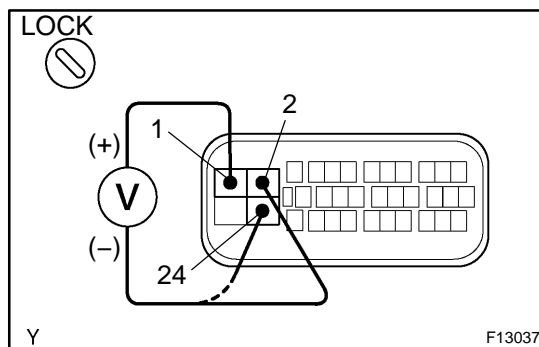
The operation sound of the ABS solenoid should be heard.

OK

CHECK AND REPLACE BRAKE ACTUATOR ASSY (SEE PAGE 32-58)

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2 CHECK TERMINAL VOLTAGE(+BS AND GND OF SKID CONTROL ECU)



- (a) Disconnect the skid control ECU connector.
- (b) Measure the voltage between terminals 1 and 2 or 24 of the skid control ECU connector.

Standard:

11 to 14 V

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CHECK AND REPAIR HARNESS AND CONNECTOR

OK

IF THE SAME CODE IS STILL OUTPUT AFTER THE DTC IS DELETED, CHECK THE CONTACT CONDITION OF EACH CONNECTION