

<b>DTC</b>	<b>C0278/11</b>	<b>OPEN CIRCUIT IN ABS SOLENOID RELAY CIRCUIT</b>
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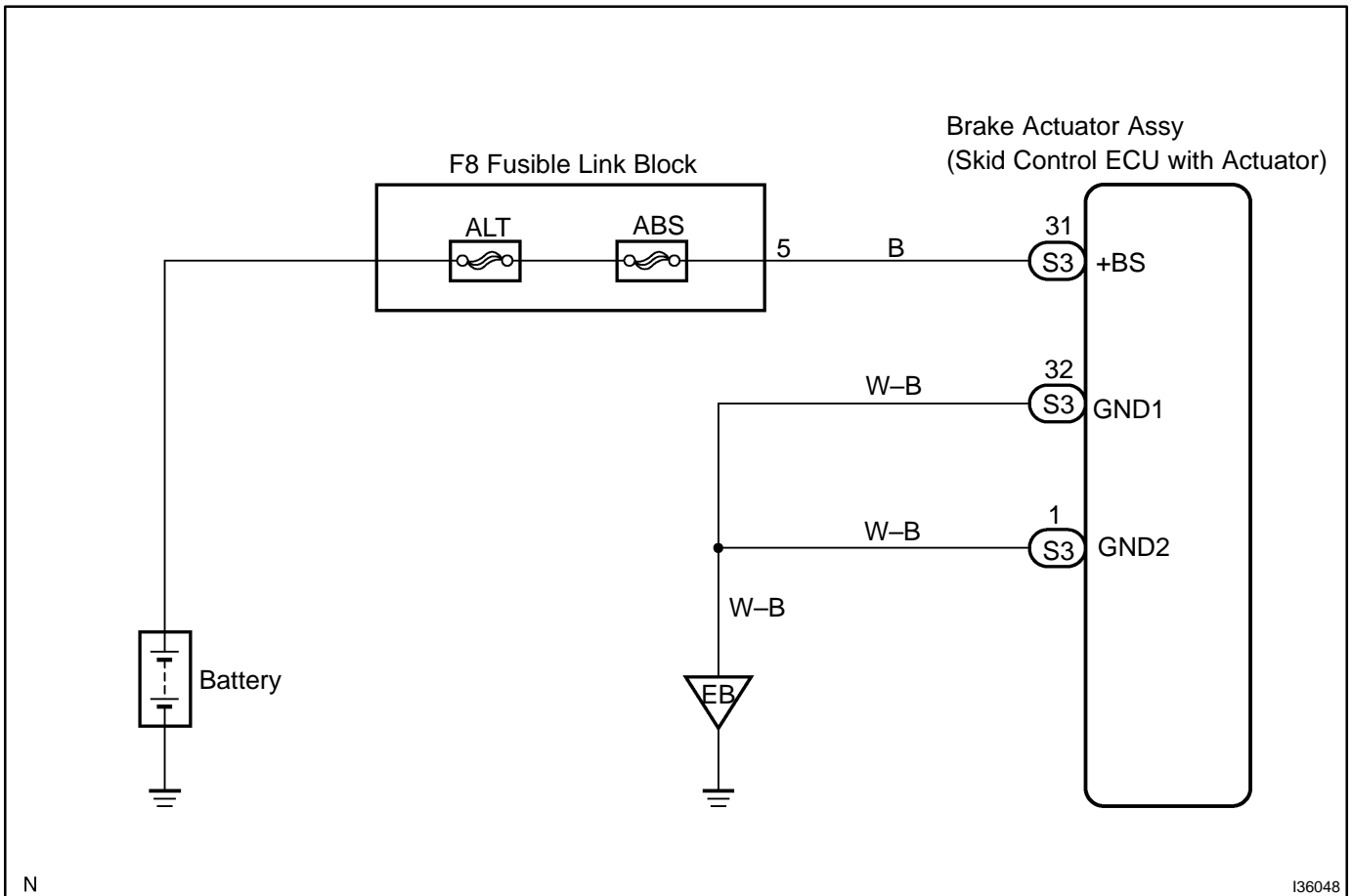
<b>DTC</b>	<b>C0279/12</b>	<b>SHORT CIRCUIT IN ABS SOLENOID RELAY CIRCUIT</b>
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**CIRCUIT DESCRIPTION**

This relay supplies power to each ABS solenoid. After the ignition switch is turned ON, if the initial check is OK, the relay goes on.

DTC No.	DTC Detecting Condition	Trouble Area
C0278/11	• With IG terminal voltage at 9.5 to 17.2 V, when solenoid relay is turned on, relay contact is "OFF" for 0.2 sec. or more.	• Brake actuator assy
C0279/12	Immediately after IG1 is turned ON, when solenoid relay is turned OFF, relay contact is "ON" for 0.2 sec. or more.	

**WIRING DIAGRAM**

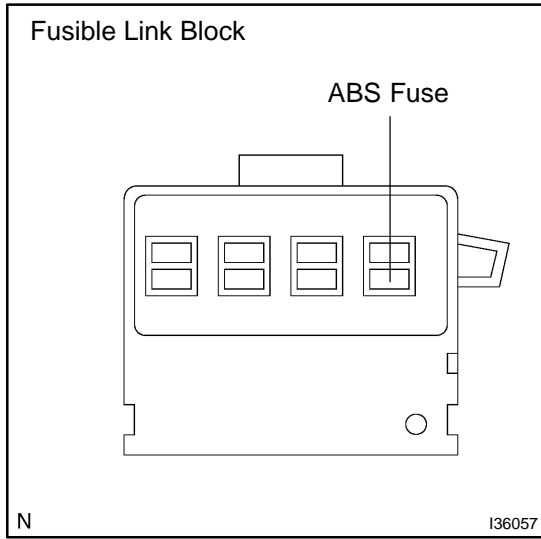


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# INSPECTION PROCEDURE

## 1 INSPECT FUSE(ABS FUSE)



- (a) Remove ABS fuse from fusible link block.
- (b) Measure the resistance according to the value(s) in the table below.

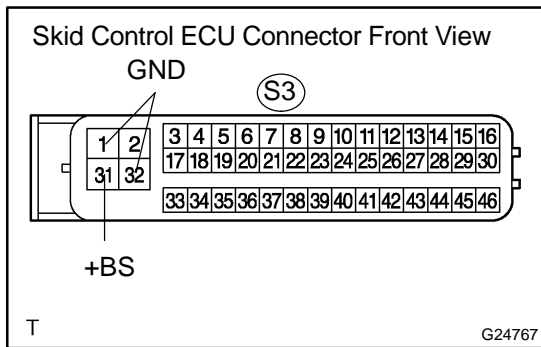
**Standard:**

Tester Connection	Specified Condition
ABS fuse	1 Ω or less

**NG** CHECK FOR SHORT IN ALL HARNESS AND CONNECTOR CONNECTED FUSE AND REPLACE FUSE

**OK**

## 2 INSPECT SKID CONTROL ECU CONNECTOR(+BS TERMINAL VOLTAGE)



- (a) Disconnect the skid control ECU connector.
- (b) Measure the voltage according to the value(s) in the table below.

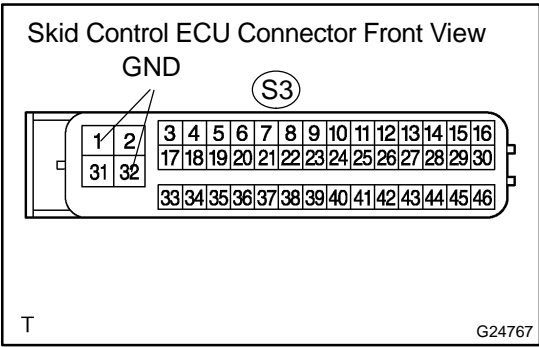
**Standard:**

Tester Connection	Specified Condition
+BS (S3-31) – GND1 (S3-32)	11 to 14 V
+BS (S3-31) – GND2 (S3-1)	

**NG** REPAIR OR REPLACE HARNESS AND CONNECTOR

**OK**

**3 INSPECT SKID CONTROL ECU CONNECTOR(GND TERMINAL CONTINUITY)**



- (a) Disconnect the skid control ECU connector.
- (b) Measure the resistance according to the value(s) in the table below.

**Standard:**

Tester Connection	Specified Condition
GND1 (S3-32) – Body ground	1 Ω or less
GND2 (S3-1) – Body ground	

**NG** REPAIR OR REPLACE HARNESS AND CONNECTOR

**OK**

**4 RECONFIRM DTC**

**HINT:**  
This DTC will be displayed when the internal malfunction of the Brake Actuator Assy is detected. Therefore, perform the recurrence test before replacing the Brake Actuator Assy to check that the DTC is displayed.

- (a) Clear the DTCs.
- (b) Drive the vehicle at a speed of 6 km/h (4 mph) or more.
- (c) Is DTC output?

**NO** PROCEED TO NEXT CIRCUIT INSPECTION SHOWN ON PROBLEM SYMPTOMS TABLE (See page 05-284)

**YES**

**REPLACE BRAKE ACTUATOR ASSY(See page 32-39)**

**NOTICE:**  
When replacing the brake actuator assy, perform the zero point calibration (See page 05-279).