

DTC	C0278/11	OPEN CIRCUIT IN ABS SOLENOID RELAY CIRCUIT
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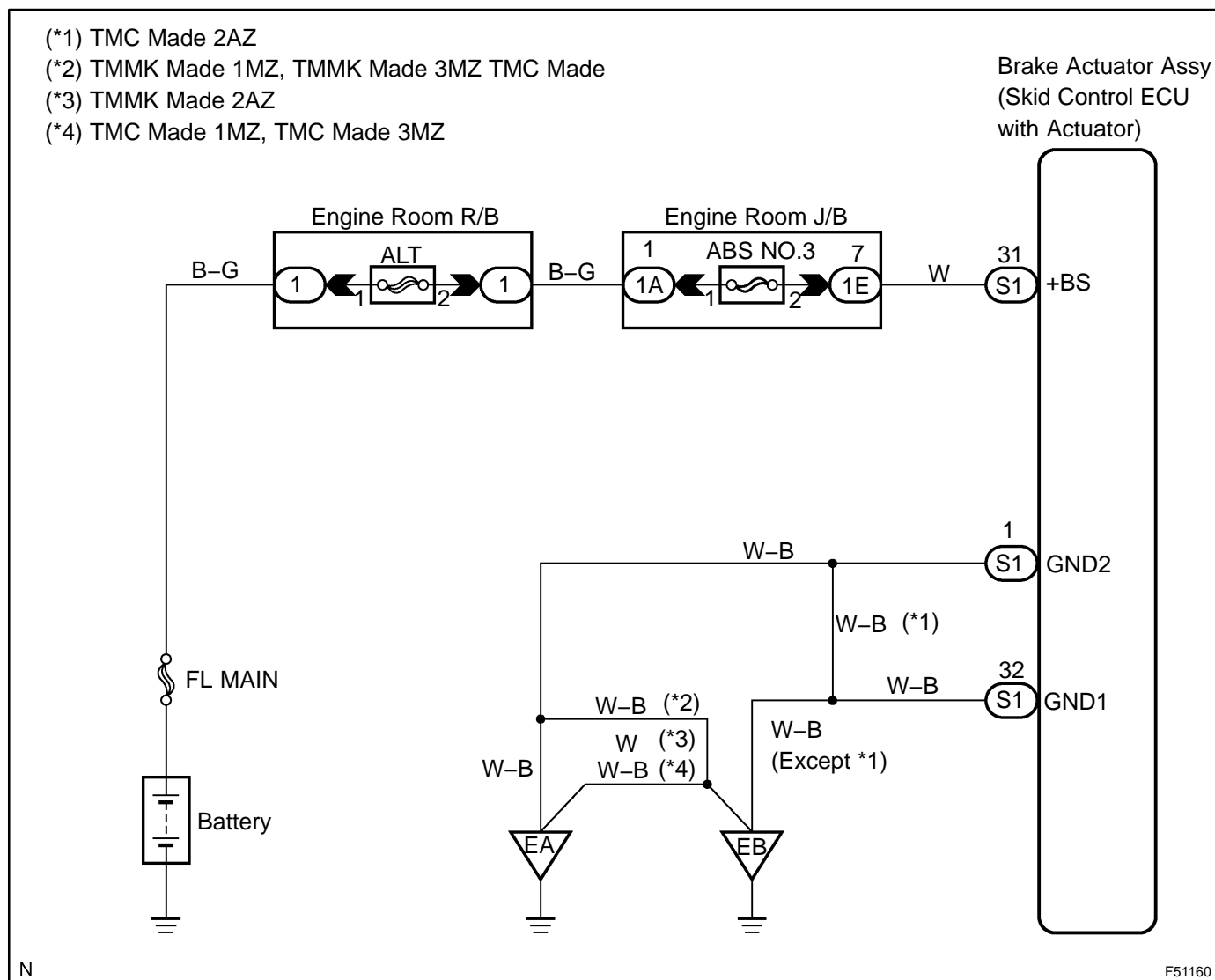
DTC	C0279/12	SHORT CIRCUIT IN ABS SOLENOID RELAY CIRCUIT
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CIRCUIT DESCRIPTION

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

DTC No.	DTC Detecting Condition	Trouble Area
C0278/11	<p>When any of the following (1 to 2) is detected:</p> <p>(1) All the following conditions continue for at least 0.2 seconds.</p> <ul style="list-style-type: none"> • IG voltage is between 9.5 and 17.2 V. • Relay contact is open when the relay is ON. <p>(2) All the following conditions continue for at least 0.2 seconds.</p> <ul style="list-style-type: none"> • IG voltage is 9.5 V or less when the relay is ON. • Relay contact remains open. 	<ul style="list-style-type: none"> • ABS No.3 fuse • Brake actuator assy (solenoid relay circuit)
C0279/12	<p>The following condition continues for at least 0.2 seconds.</p> <ul style="list-style-type: none"> • Relay contact is closed immediately after turning IG switch to the ON position when the relay is OFF. 	<ul style="list-style-type: none"> • ABS No.3 fuse • Brake actuator assy (solenoid relay circuit)

WIRING DIAGRAM

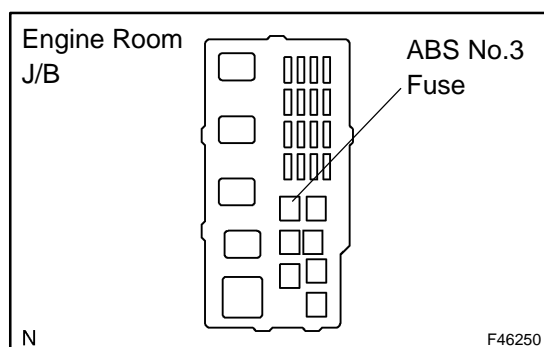


INSPECTION PROCEDURE

NOTICE:

When replacing the brake actuator assy, perform zero point calibration (see page 05-987).

1	CHECK FUSE(ABS NO.3)
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- Remove the ABS No.3 fuse from the engine room J/B.
- Check continuity of the ABS No.3 fuse.

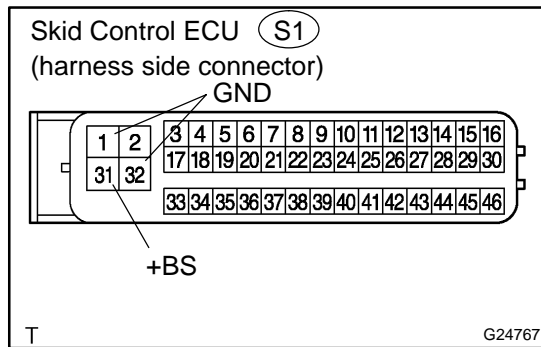
Standard:

ABS No.3 fuse	Below 1Ω (Continuity)
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NG

CHECK FOR SHORT IN ALL HARNESS AND CONNECTOR CONNECTED TO FUSE AND REPLACE FUSE

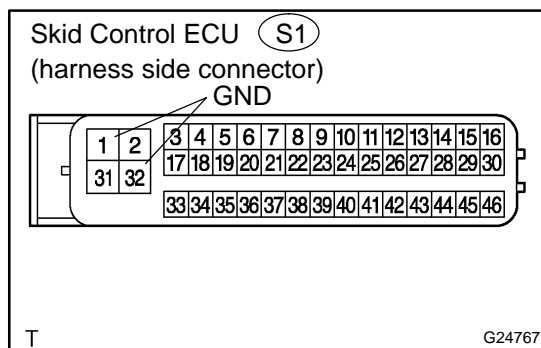
OK

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
S1-31 (+BS) – S1-1 (GND2)	10 to 14 V
S1-31 (+BS) – S1-32 (GND1)	10 to 14 V

OK**Go to step 4****NG****3 INSPECT HARNESS AND CONNECTOR(SKID CONTROL ECU – BODY GROUND)**

- (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
S1-1 (GND2) – Body ground	Below 1 Ω
S1-32 (GND1) – Body ground	Below 1 Ω

NG**REPAIR OR REPLACE HARNESS AND CONNECTOR (SKID CONTROL ECU – BODY GROUND)****OK****REPAIR OR REPLACE HARNESS AND CONNECTOR (SKID CONTROL ECU – BATTERY)****4 RECONFIRM DTC**

- (a) Clear the DTCs (see page 05-1002).
(b) Turn the ignition switch to the ON position.
(c) Are the same DTCs recorded? (see page 05-1002)

NO**END****HINT:**

These DTCs may be memorized due to a malfunction in the connector terminal.

YES**REPLACE BRAKE ACTUATOR ASSY (SEE PAGE 32-63)**