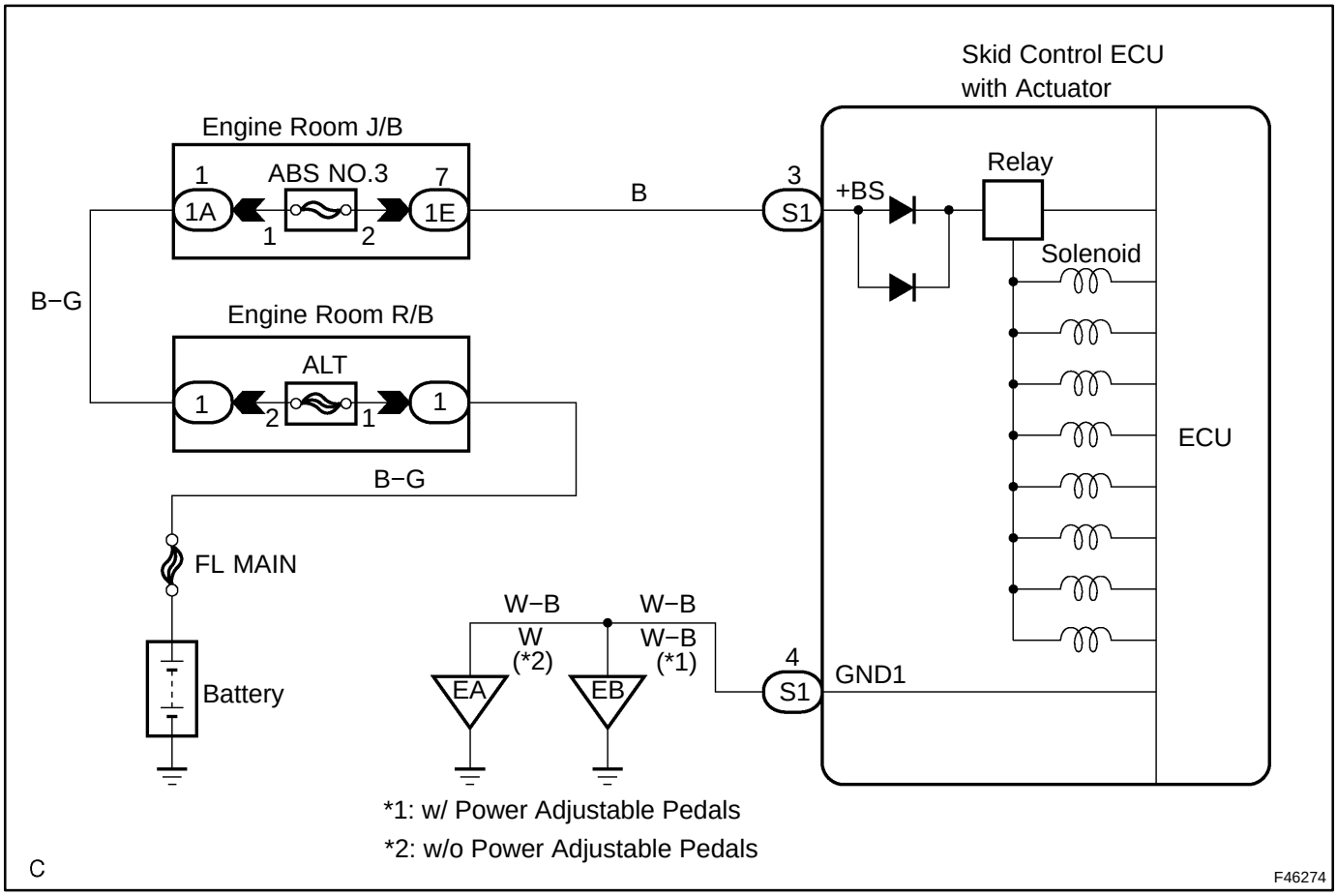
DTC	C0278/11	OPEN OR SHORT CIRCUIT IN ABS SOLENOID RELAY

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.

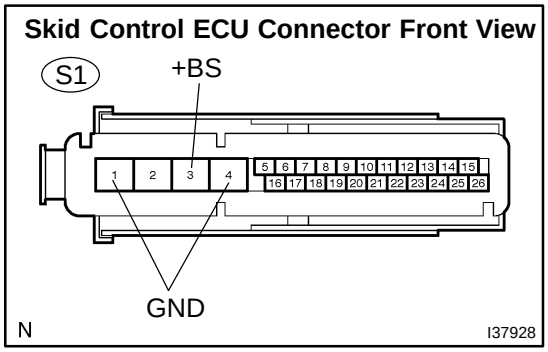
DTC No.	DTC Detecting Condition	Trouble Area
C0278/11	Detection of any conditions from 1 to 3: 1. Internal circuit malfunction in ECU. 2. Valve relay voltage is 0.8 x IG or less for 0.5 sec. 3. Valve relay voltage is high level at valve relay OFF.	• ABS solenoid relay • ABS solenoid relay circuit

WIRING DIAGRAM



INSPECTION PROCEDURE

1 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.

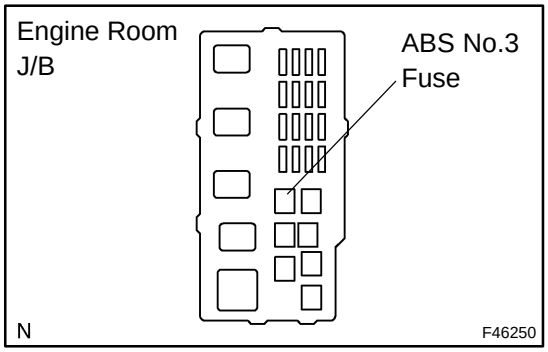
Standard:

Tester Connection	Specified Condition
S1−3 (+BS) − S1−4 (GND1)	10 to 14 V
S1−3 (+BS) − S1−1 (GND2)	10 to 14 V

OK → **Go to step 4**

NG

2 INSPECT FUSE(ABS NO.3 FUSE)



(a) Remove the ABS No.3 fuse from the engine room J/B.
(b) Measure the resistance according to the value(s) in the table below.

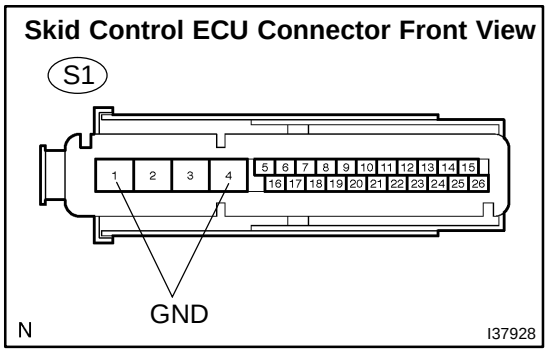
Standard:

ABS No.3 fuse	1 Ω or less

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

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
S1−4 (GND1) − Body ground	1 Ω or less
S1−1 (GND2) − Body ground	1 Ω or less

NG → **CHECK AND REPAIR HARNESS AND CONNECTOR**

OK

4	RECONFIRM DTC

(a) Clear the DTCs (See page 05–873).
(b) Turn the ignition switch to the ON position.
(c) Are the same DTCs recorded? (See page 05–873).

HINT:
The skid control ECU inspects the motor relay circuit when the stop lamp switch is turned off and the vehicle is running at a speed of 4 mph (6 km/h) or more.

NO → **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE (See page 05–883)**

YES

REPLACE BRAKE ACTUATOR ASSY (See page 32–58)