

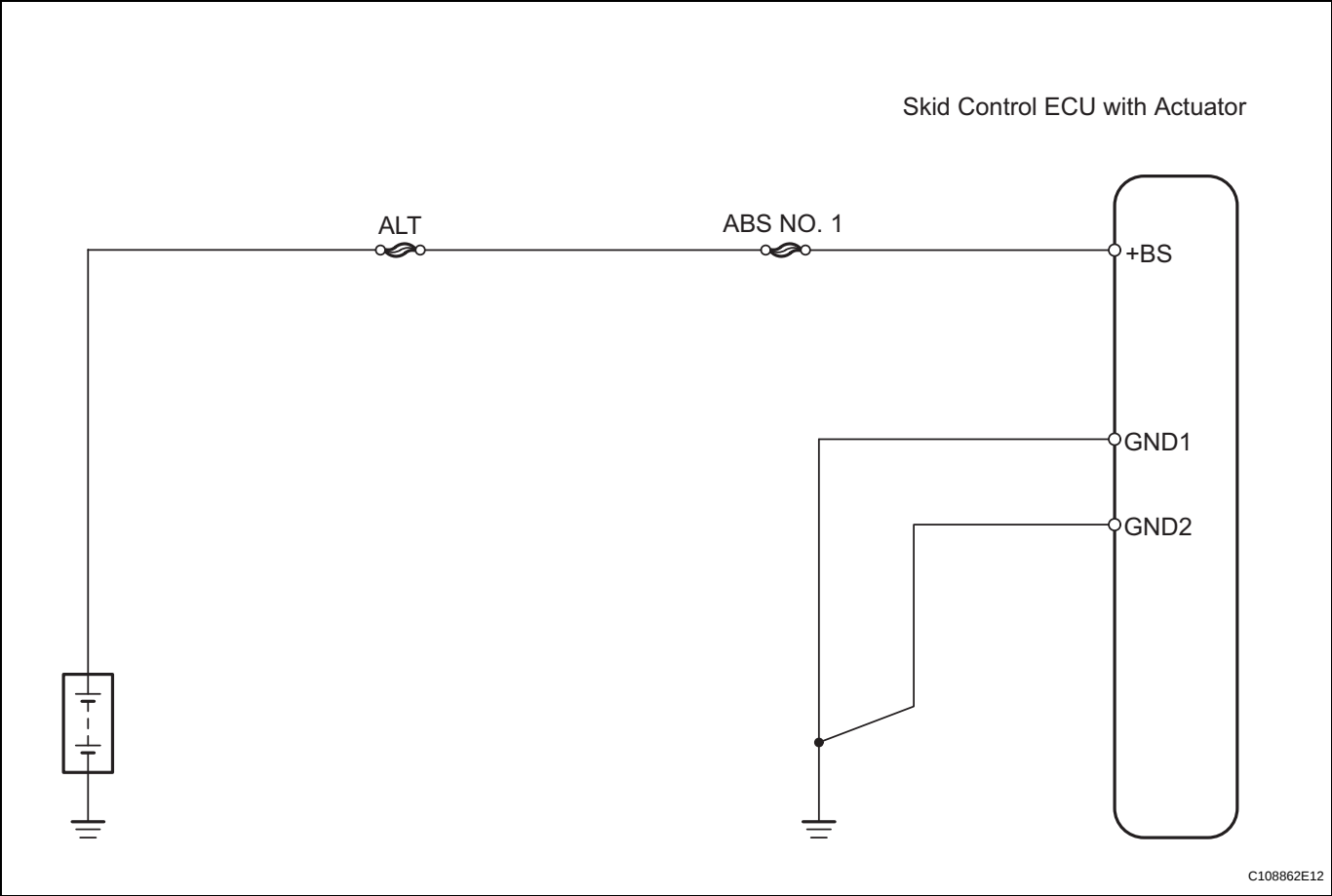
DTC	C0278/11	Open in ABS Solenoid Relay Circuit
DTC	C0279/12	Short to B+ in ABS Solenoid Relay Circuit

DESCRIPTION

This relay supplies power to each ABS solenoid. After the ignition switch is turned ON, if the ABS initial check completes, the skid control ECU turns the ABS solenoid relay on.

DTC No.	DTC Detection Condition	Trouble Area
C0278/11	When either of following is detected: 1. Both conditions continue for at least 0.2 seconds • IG voltage is between 9.5 and 17.2 V • Relay contact is open when relay is ON 2. Both conditions continue for at least 0.2 seconds • IG voltage is less than 9.5 V • Relay contact remains open when relay is ON	• Skid control ECU with actuator • ABS solenoid relay circuit
C0279/12	When relay is OFF, turning ignition switch ON closes relay contact immediately and continues for at least 0.2 seconds	• Skid control ECU with actuator • ABS solenoid relay circuit

WIRING DIAGRAM

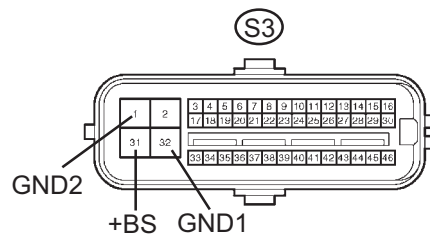


1 INSPECT FUSE (ALT, ABS NO. 1)

- (a) Remove the ABS NO. 1 H-fuse from the engine room junction block.
- (b) Remove the ALT H-fuse from the fusible link.
- (c) Measure the resistance of the H-fuses.

Standard resistance:**Below 1 Ω** **NG****REPLACE FUSE****OK****2 CHECK WIRE HARNESS (SKID CONTROL ECU - BATTERY AND BODY GROUND)**

Wire Harness Side



E114414E20

- (a) Disconnect the S3 ECU connector.
 - (b) Measure the voltage of the wire harness side connector.
- Standard voltage**

Tester Connection	Specified Condition
S3-31 (+BS) - Body ground	10 to 14 V

- (c) Measure the resistance of the wire harness side connector.
- Standard resistance**

Tester Connection	Specified Condition
S3-32 (GND1) - Body ground	Below 1 Ω
S3-1 (GND2) - Body ground	

NG**REPAIR OR REPLACE HARNESS AND CONNECTOR****OK****3 RECONFIRM DTC****HINT:**

These codes are output when a problem is detected in the brake actuator assembly.

As the ABS motor relay is built into the brake actuator assembly, ABS motor relay and solenoid unit inspection cannot be performed.

Be sure to check if the DTC is output before replacing the brake actuator assembly.

- (a) Clear the DTCs (see page [BC-16](#)).
- (b) Drive the vehicle at 6 km/h (4 mph) or more.
- (c) Check for DTCs (see page [BC-16](#)).

Result

Result	Proceed to
DTC is output	A
DTC is not output	B

HINT:
When replacing the skid control ECU with actuator, perform the zero point calibration (see page [BC-11](#)).



REPLACE BRAKE ACTUATOR ASSEMBLY