

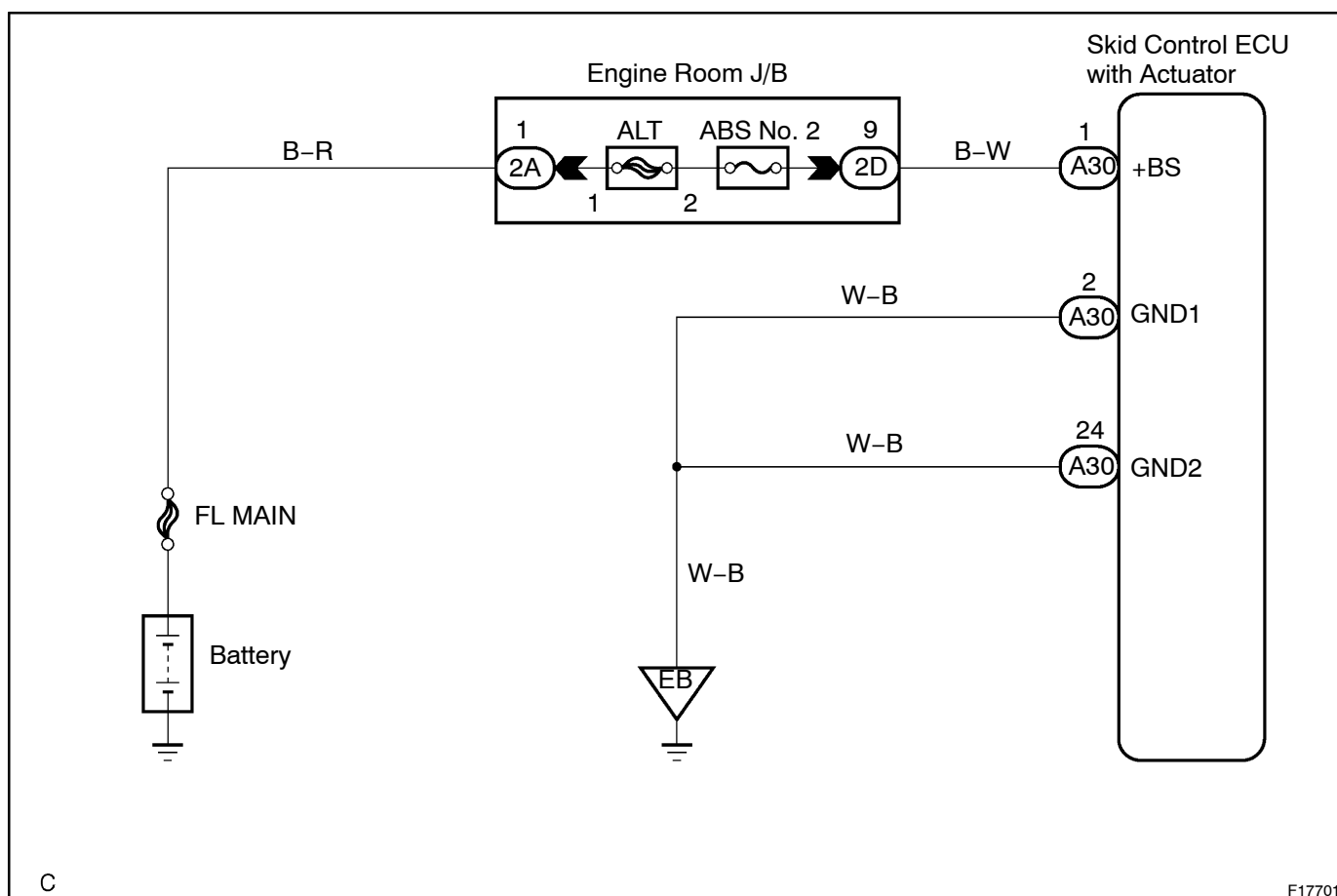
DTC	C0278/11, C0279/12	ABS Solenoid Relay Circuit
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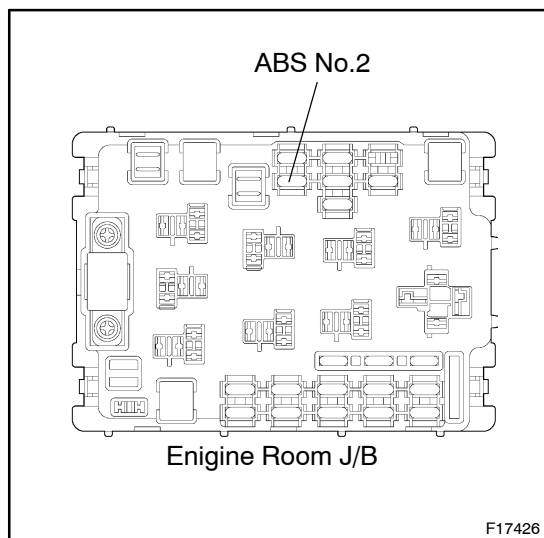
CIRCUIT DESCRIPTION

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

DTC No.	DTC Detection Condition	Trouble Area
C0278/11	- IG1 terminal voltage is from 9.5 V to 18.5 V and the relay contact OFF condition continues for 0.2 sec. or more. - IG1 terminal voltage decreases in 9.5 V or less because of the relay ON driving, and the relay contact OFF condition elapses for 0.2 sec. or more.	•ABS solenoid relay •ABS solenoid relay circuit •ABS actuator
C0279/12	Immediately after IG switch has been turned ON, when the solenoid relay is OFF.	

WIRING DIAGRAM



INSPECTION PROCEDURE**1 Check ABS No.2 fuse.****PREPARATION:**

Remove the ABS No.2 fuse from the Engine Room J/B.

CHECK:

Check continuity of ABS No.2 fuse.

OK:

Continuity

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Check for short circuit in all the harness and components connected to ABS No.2 fuse (See attached wiring diagram).

OK

2 Check the DTC once more.**PREPARATION:**

- (a) Clear DTC ([See page DI-3](#)).
- (b) Turn the ignition switch to OFF.

CHECK:

Turn the ignition switch to ON, and check that the same DTC is stored in the memory.

YES

Replace ABS Actuator Assembly.

NO

3 Check ABS solenoid relay operation.

PREPARATION:

- (a) Connect the hand-held tester to the DLC3.
- (b) Turn the ignition switch ON and push the hand-held tester main switch ON.
- (c) Select the ACTIVE TEST mode on the hand-held tester.

CHECK:

Check the operation sound of the ABS solenoid relay when operating it with the hand-held tester.

OK:

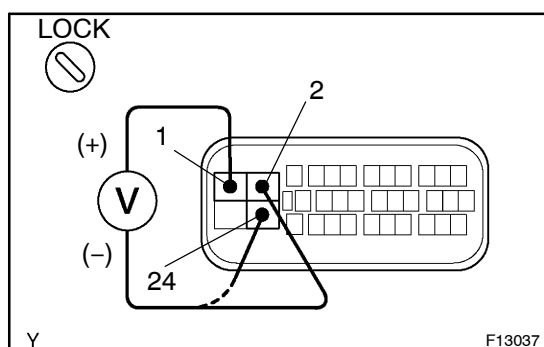
The operation sound of the ABS solenoid relay should be heard.

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Check and replace ABS Actuator Assembly.

OK

4 Check voltage between terminals +BS (1) and GND (2, 24) of skid control ECU.



PREPARATION:

Disconnect the Skid Control ECU connector.

CHECK:

Measure the voltage between terminal 1 and 2, 24 of the Skid Control ECU harness side connector.

OK:

Voltage: 10 – 14 V

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Check and repair harness or connector.

OK

If the same code is still output after the DTC is deleted, check the contact condition of each connection. If the connection is normal, the ECU may be defective.