DTC	C0278/11	OPEN CIRCUIT IN ABS SOLENOID RELAY CIRCUIT

DTC	C0279/12	SHORT CIRCUIT IN ABS SOLENOID RELAY CIRCUIT

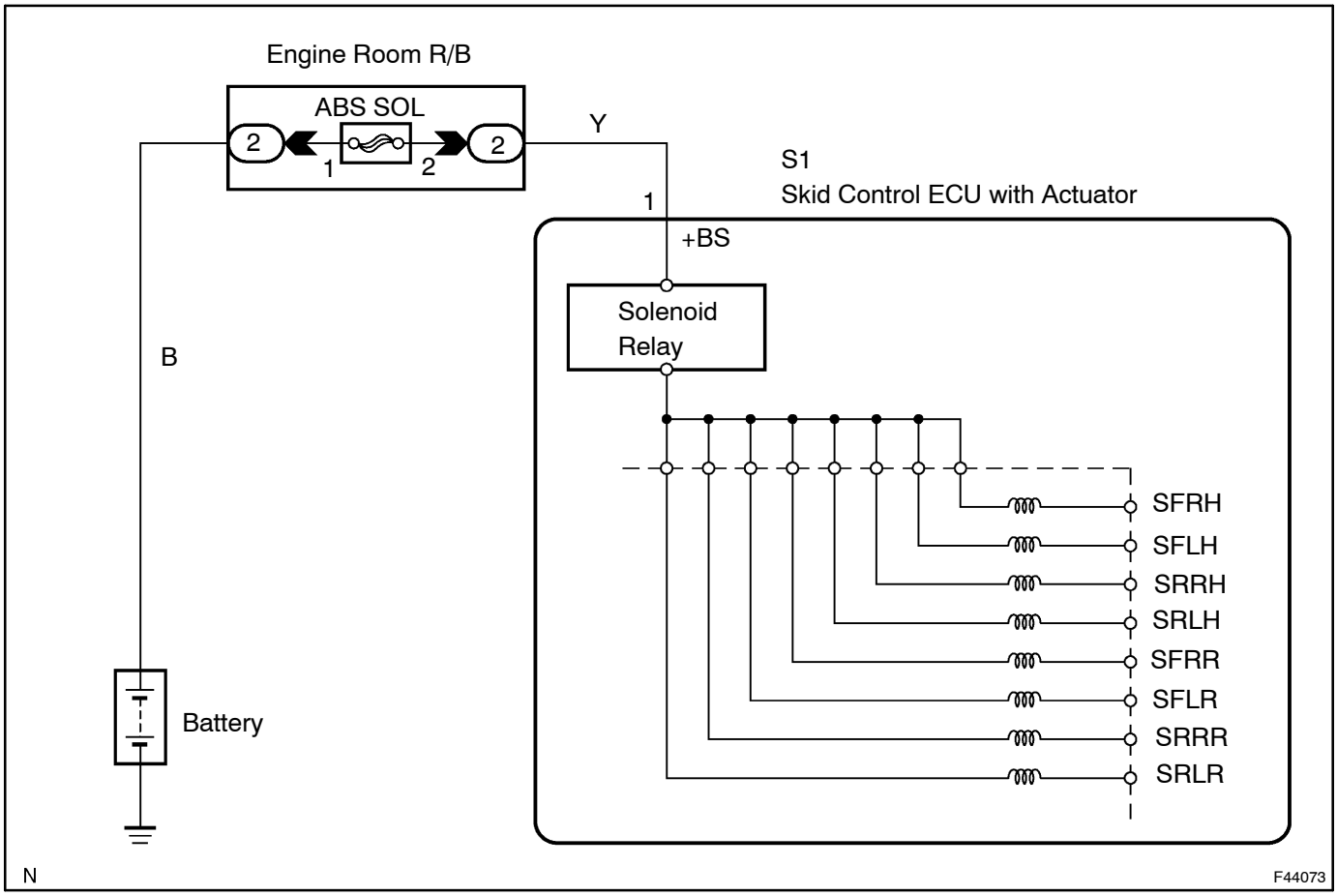
CIRCUIT DESCRIPTION

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

DTC No.	DTC Detection Condition	Trouble Area
C0278/11	Condition 1. or 2. continues for 0.2 sec. or more: 1. IG1 terminal voltage of skid control ECU is 9.5 – 18.5 V, and when the solenoid relay is ON.*1 2. With solenoid relay ON driving, when IG terminal of skid control ECU is less than 9.5 V.*1	• Fusible link block • ABS No.2 fuse • ABS solenoid relay • ABS solenoid relay circuit
C0279/12	Immediately after IG switch has been turned ON, when the solenoid relay is OFF.*2	

*1 Solenoid relay contact OFF condition:
All of solenoid terminal voltage is half of IG terminal voltage or less than.
*2 Solenoid relay contact ON condition:
All of solenoid terminal voltage is half of IG terminal voltage or more.

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:
Start the inspection from step 1 in case of using the hand–held tester and start from step 2 in case of not using the hand–held tester.

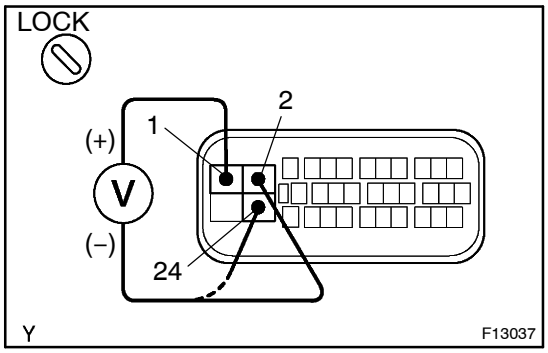
1	PERFORM ACTIVE TEST BY HAND–HELD TESTER(ABS SOLENOID RELAY OPERATION)

(a) Select the item ”ABS SOL RELAY” in the ACTIVE TEST and operate the ABS solenoid relay on the hand–held tester.
(b) 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 should be heard.

OK → **CHECK AND REPLACE BRAKE ACTUATOR ASSY**

NG

2	CHECK TERMINAL VOLTAGE(+BS AND GND OF SKID CONTROL ECU)



(a) Disconnect the skid control ECU connector.
(b) Measure the voltage between terminals 1 and 2 or 24 of the skid control ECU connector.
OK: 11 – 14 V

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

OK

IF THE SAME CODE IS STILL OUTPUT AFTER THE DTC IS DELETED, CHECK THE CONTACT THE CONDITION OF EACH CONNECTION