

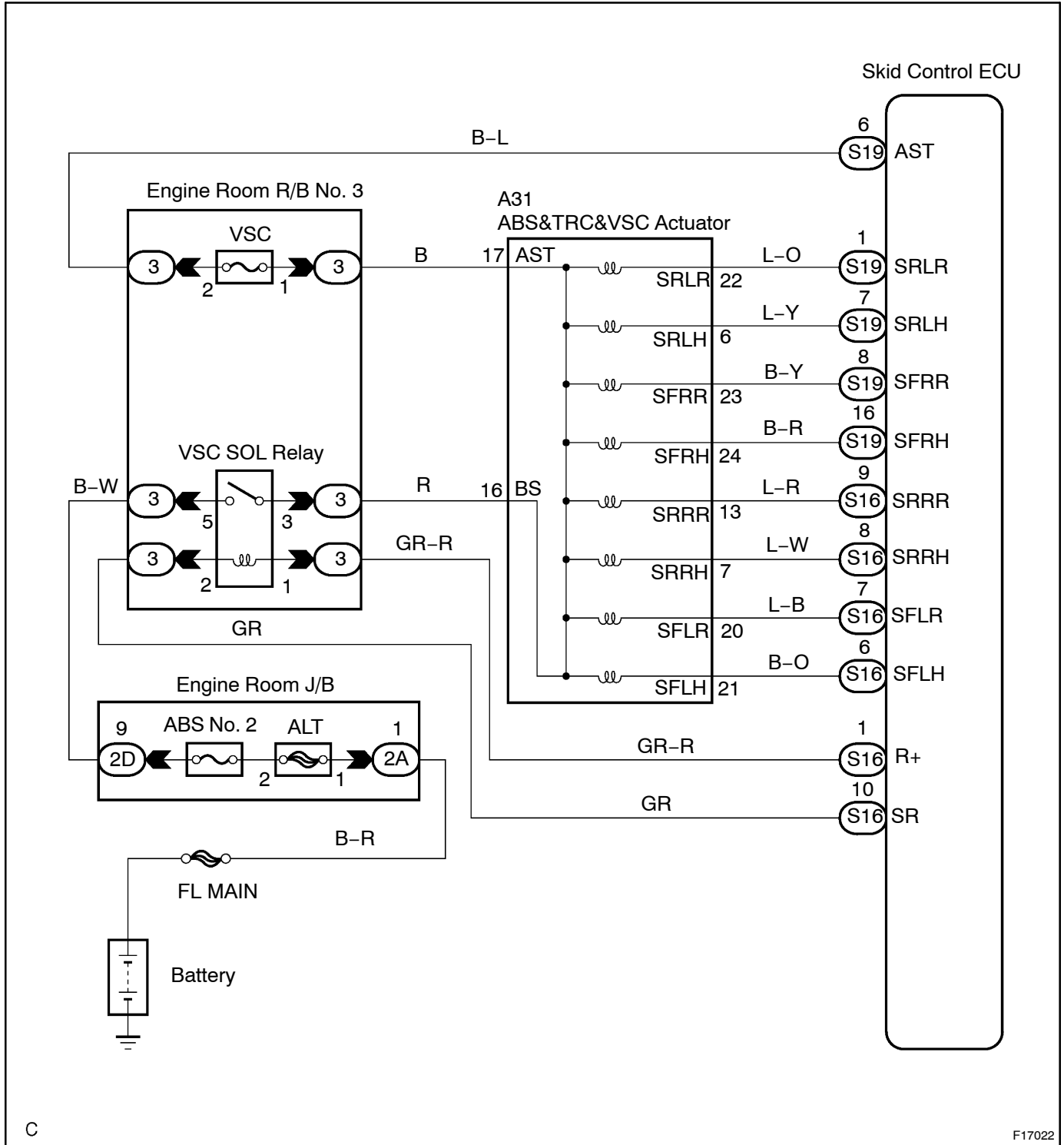
DTC	C0278 / 11, C0279 / 12	ABS SOL Relay Circuit
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CIRCUIT DESCRIPTION

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	Conditions 1. and 2. continue for 0.2 sec. or more: 1. ECU terminal IG1 voltage is 9.5 V to 17.2 V and the SOL relay is ON, however, the contact point of the SOL relay is OFF. 2. With SOL relay ON driving, ECU terminal IG1 voltage becomes 9.5 V or less and the contact point of the SOL relay does not become ON.	• ABS SOL relay • ABS SOL relay circuit • Skid control ECU
C0279 / 12	Immediately after ECU terminal IG1 becomes ON, and SOL relay is OFF, however, when the condition that the contact point of the SOL relay is ON continues for 0.2 sec. 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 Check VSC SOL 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 VSC SOL relay when operating it with the hand-held tester.

OK:

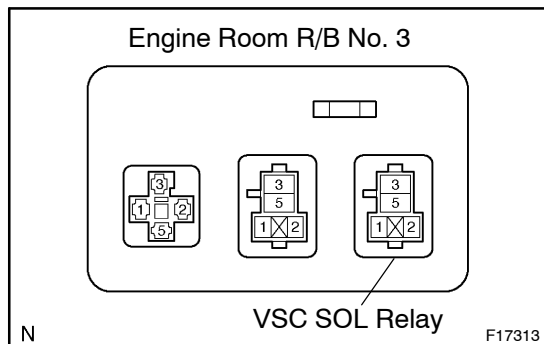
The operation sound of the VSC SOL relay should be heard.

OK

Go to step 4.

NG

2 Check voltage between terminals 5 of engine room R/B NO. 3 (for VSC SOL relay) and body ground.



PREPARATION:

Remove the VSC SOL relay from the engine room R/B No. 3.

CHECK:

Measure the voltage between terminals 5 of engine room R/B No. 3 (for ABS SOL relay) and body ground.

OK:

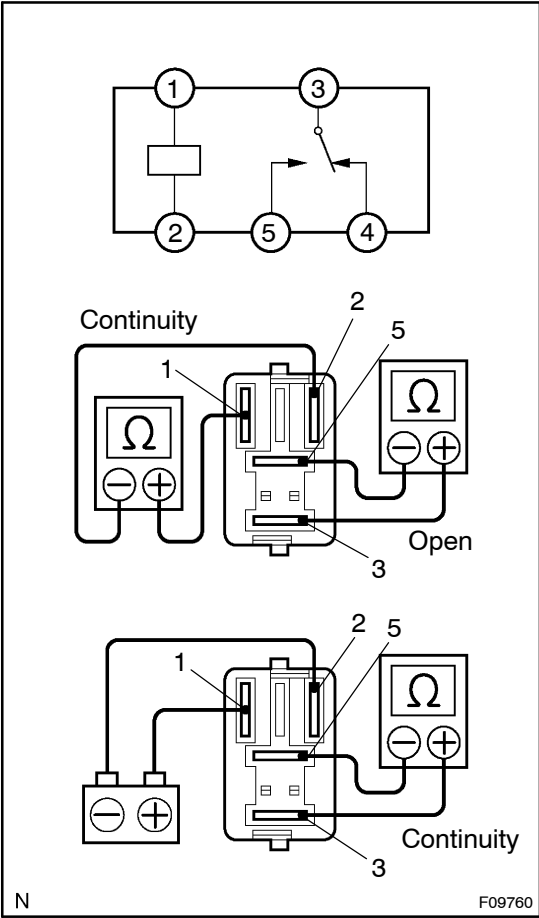
Voltage: 10 – 14 V

NG

Go to step 7.

OK

3 Check VSC SOL relay.



CHECK:

Check continuity between each terminal of VSC SOL relay.

OK:

Terminals 1 and 2	Continuity (Reference value 62 Ω)
Terminals 3 and 5	Open

CHECK:

- (a) Apply battery voltage between terminals 1 and 2.
- (b) Check continuity between each terminal of VSC SOL relay.

OK:

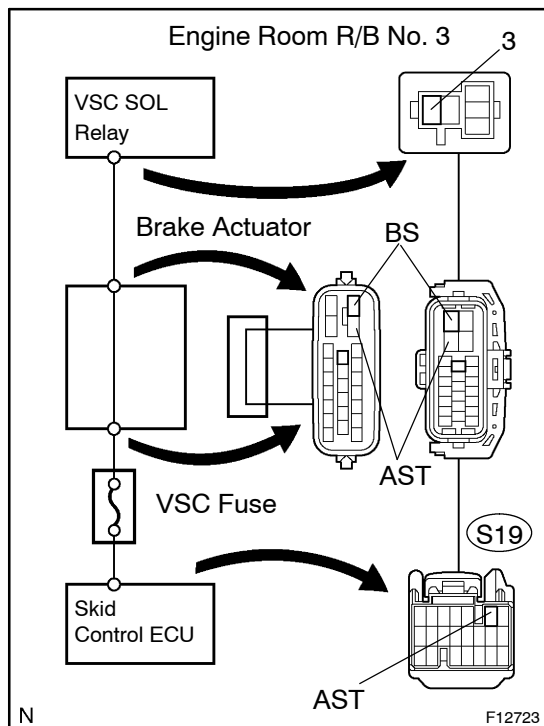
Terminals 3 and 5	Continuity
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Replace VSC SOL relay.

OK

- 4 Check continuity between terminals 3 of engine room R/B No. 3 (for VSC SOL relay) and terminal AST of skid control ECU.**



PREPARATION:

- Remove the VSC SOL relay from the engine room R/B No. 3.
- Disconnect the connector from the skid control ECU.

CHECK:

Check continuity between terminals 3 of engine room R/B No. 3 (for VSC SOL relay) and terminal AST of skid control ECU harness side connector.

OK:

Continuity

NG

Repair or replace harness or brake actuator.

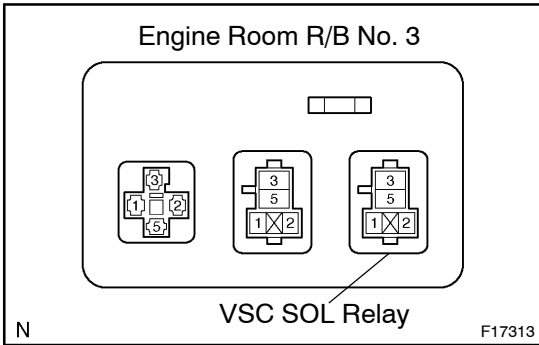
OK

- 5 Check for open and short circuit in harness and connector between ABS SOL relay and skid control ECU (See page IN-30).**

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Repair or replace harness or connector.

OK

6 Check VSC fuse.**PREPARATION:**

Remove the VSC fuse from the engine room R/B No. 3.

CHECK:

Check continuity of VSC fuse.

OK:

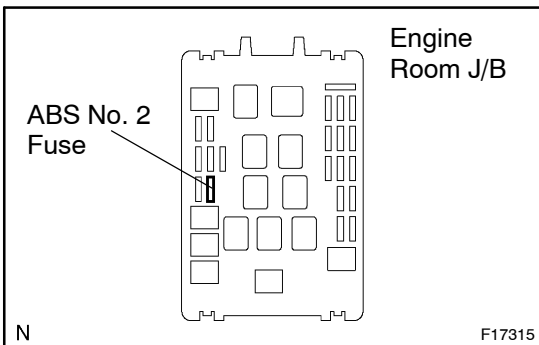
Continuity

NG

Replace the VSC fuse.

OK

Repair or replace harness or connector.

7 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

NG

Replace the ABS No. 2 fuse.

OK

Repair or replace harness or connector.