

DTC	C0273/13	OPEN CIRCUIT IN ABS MOTOR RELAY CIRCUIT
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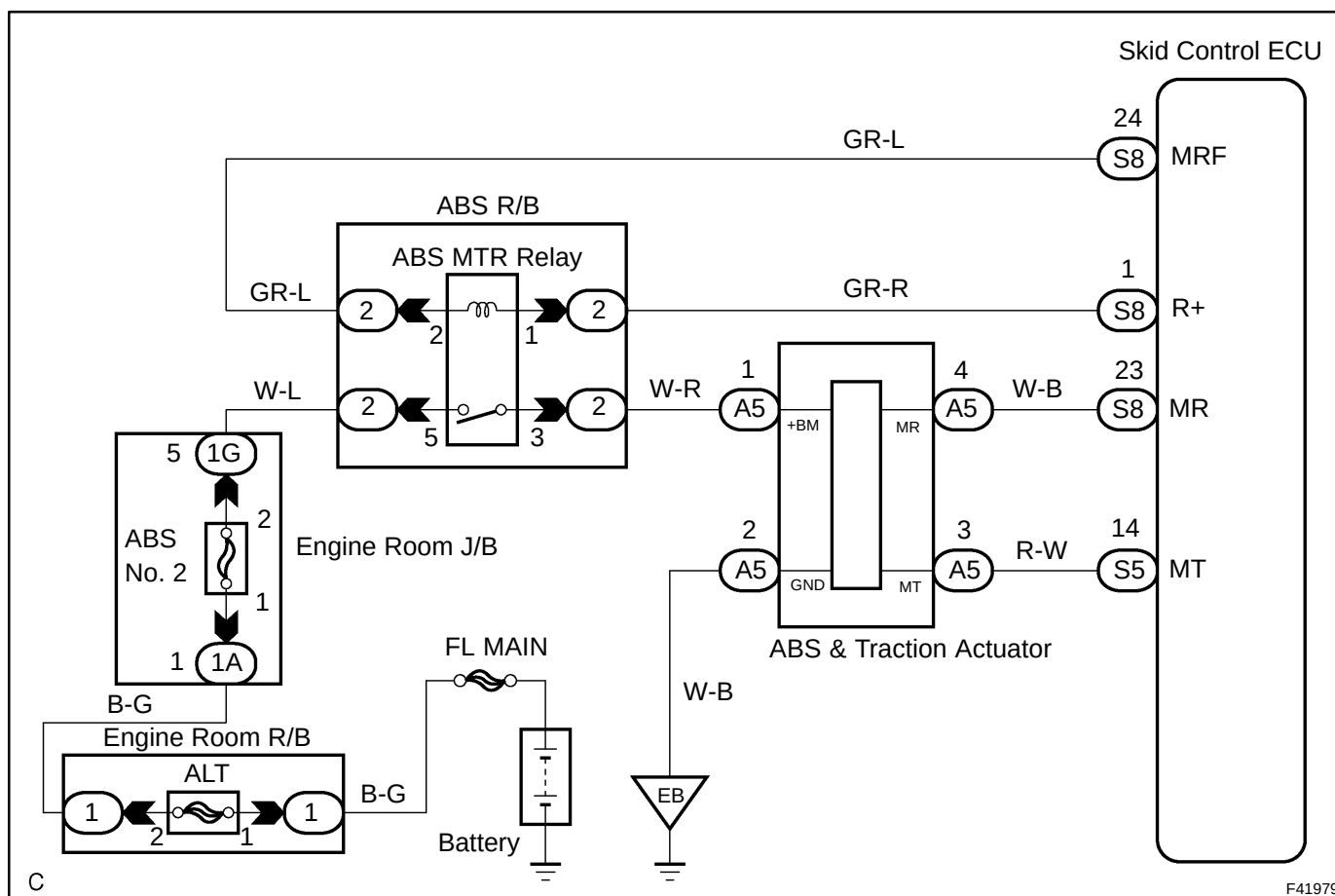
DTC	C0274/14	B+ SHORT CIRCUIT IN ABS MOTOR RELAY CIRCUIT
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CIRCUIT DESCRIPTION

The ABS motor relay supplies power to the ABS pump motor. While the ABS is activated, the ECU switches the motor relay ON and operates the ABS pump motor.

DTC No.	DTC Detection Condition	Trouble Area
C0273/13	Condition 1. or 2. continues for 0.2 sec. or more: 1. ECU terminal IG1 voltage is 9.5 V to 18.5 V, and when motor relay is ON in the midst of initial check or in operation of ABS control.*1 2. Motor relay is ON driving in the midst of initial check or in operation of ABS control, ECU terminal IG1 voltage becomes 9.5 V or less.*2	• Fusible link block • ABS No. 3 fuse • ABS motor relay • ABS motor relay circuit
C0274/14	Condition below continues for 4 sec. or more: When the motor relay is OFF, there is open circuit in MT terminal of ECU.	

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 hand-held tester.

1 PERFORM ACTIVE TEST BY HAND-HELD TESTER(ABS MOTOR RELAY OPERATION)

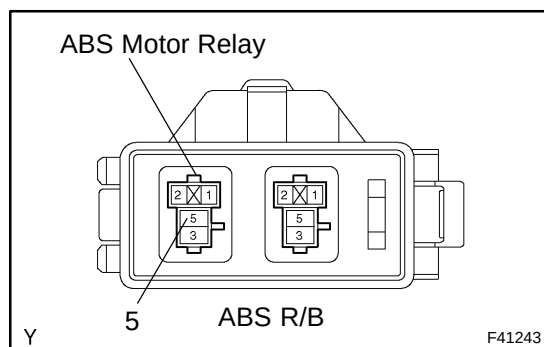
- (a) Select the item "ABS MOT RELAY" in the ACTIVE TEST and operate the ABS motor relay on the hand-held tester.
- (b) Check the operation sound of the ABS motor relay when operating it with the hand-held tester.
OK: The operation sound of the pump motor should be heard.

OK

Go to step 4

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2 CHECK TERMINAL VOLTAGE(ABS MOTOR RELAY 5 TERMINAL OF ABS R/B)



- (a) Remove the ABS motor relay from ABS R/B.
- (b) Measure voltage between terminal 5 of ABS R/B (for ABS motor relay) and body ground.

OK: 10 - 14 V

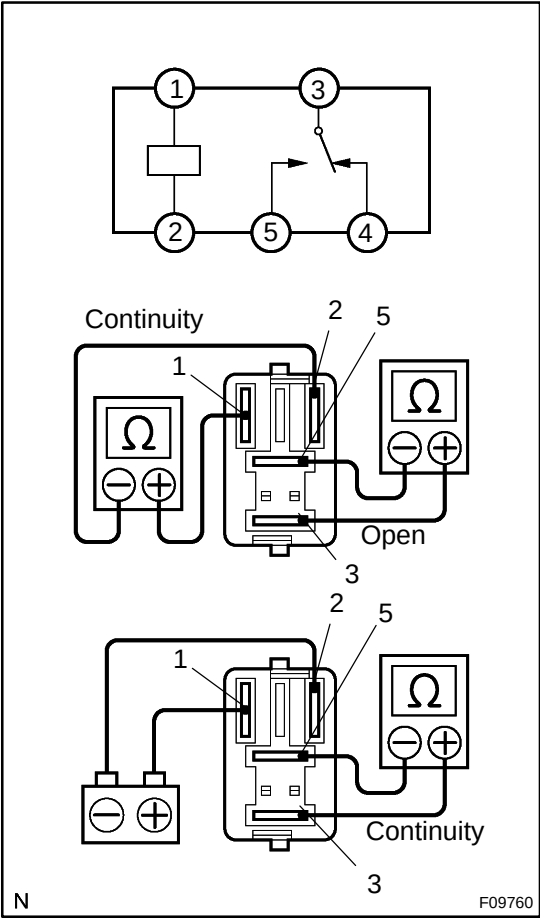
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Go to step 5

OK

3

INSPECT ABS MOTER RELAY



(a) Check continuity between each terminal of ABS motor relay.

OK:

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

(b) Apply battery positive voltage between terminals 1 and 2.

(c) Check continuity between terminals 3 and 5 of ABS motor relay.

OK:

Terminals 3 and 5	Continuity
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REPLACE ABS MOTER RELAY

OK

4

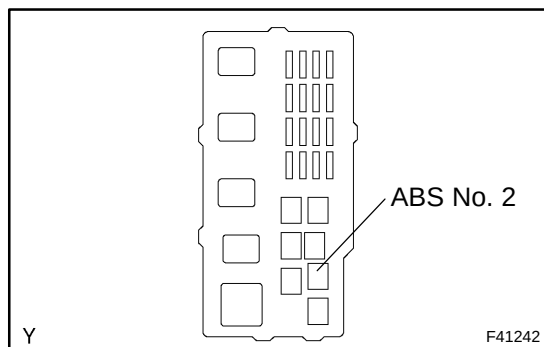
CHECK HARNESS AND CONNECTOR(ABS MOTER RELAY - SKID CONTROL ECU ASSY)(See page 01-31)

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REPAIR OR REPLACE HARNESS AND CONNECTOR

OK

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

5 INSPECT FUSE(ABS NO.2 OF ENGINE ROOM J/B)


- (a) Remove ABS No. 2 fuse from the engine room J/B.
- (b) Check continuity of fuse.

OK: Continuity

OK

REPAIR OR REPLACE HARNESS AND CONNECTOR

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REPLACE FUSE