

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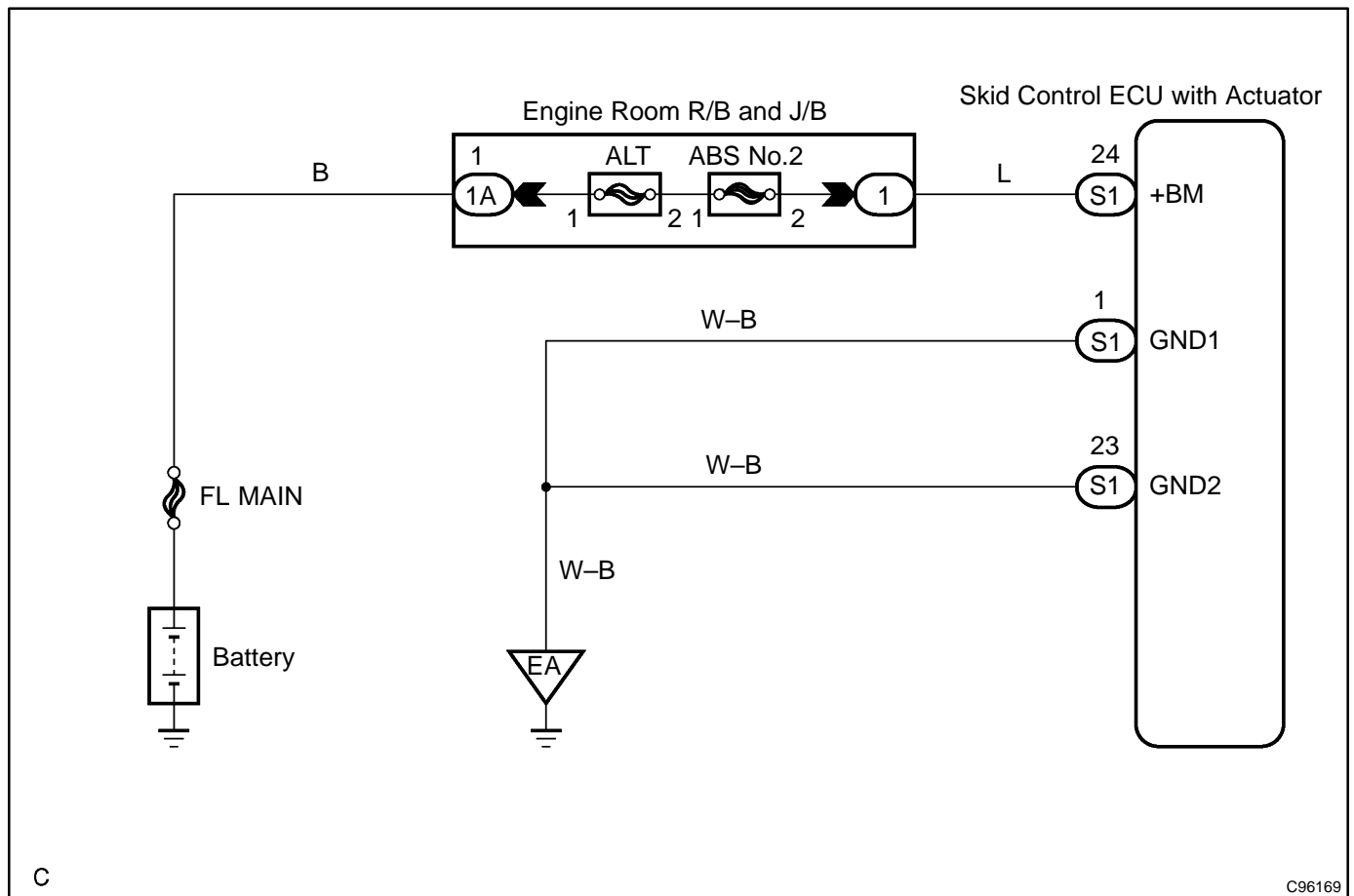
<b>DTC</b>	<b>C0274/14</b>	<b>B+ SHORT CIRCUIT IN ABS MOTOR RELAY CIRCUIT</b>
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**CIRCUIT DESCRIPTION**

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 Detecting Condition	Trouble Area
C0273/13	With IG1 voltage 10V or below during initial check or ABS control, pump motor relay is turned ON, and relay contact is not ON for 0.2 sec. or longer.	<ul style="list-style-type: none"> <li>• ABS motor relay</li> <li>• ABS motor relay circuit</li> </ul>
C0274/14	When pump motor relay is turned OFF, relay contact is ON for 3 sec. or longer.	

**WIRING DIAGRAM**



C

C96169

## 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 MOTOR RELAY)

- (a) Check the operation sound of the ABS motor individually when operating it with the hand-held tester.

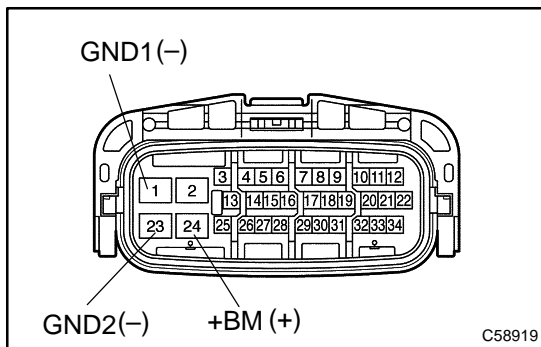
**OK:**

The operation sound of the ABS motor should be heard.

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

**NG**

### 2 INSPECT SKID CONTROL ECU CONNECTOR(+BM TERMINAL VOLTAGE)

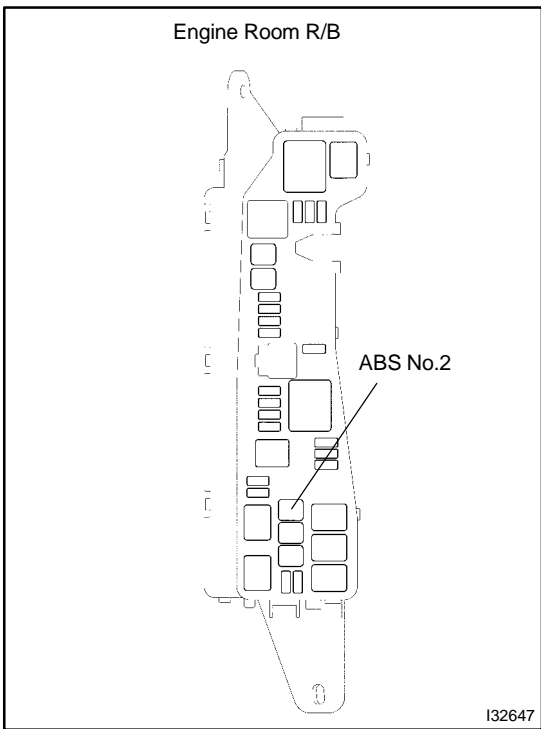


- (a) Disconnect the skid control ECU connector.  
 (b) Measure the voltage between terminals +BM (24) and GND (1, 23) of skid control ECU harness side connector.  
**Voltage: 10 – 14 V**

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

**NG**

**3 INSPECT FUSE(ABS No.2 FUSE)**

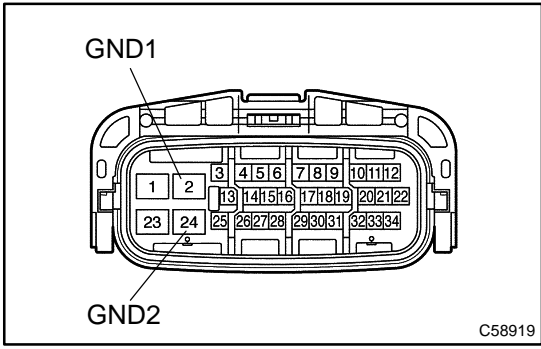


- (a) Remove ABS No.2 fuse from the engine room R/B.
  - (b) Check continuity of ABS No.2 fuse.
- OK:**  
**Continuity**

**NG** → **REPLACE INSPECT FOR SHORT CIRCUIT IN ALL HARNESS AND COMPONENTS CONNECTED TO ABS NO. 2 FUSE**

**OK**

**4 INSPECT SKID CONTROL ECU CONNECTOR(GND TERMINAL CONTINUITY)**



- (a) Measure resistance between terminal GND (1,23) of skid control ECU harness side connector and body ground.
- Resistance: 1 Ω or less**

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

**OK**

**CHECK AND REPLACE BRAKE ACTUATOR ASSY (See page 05-306)**