

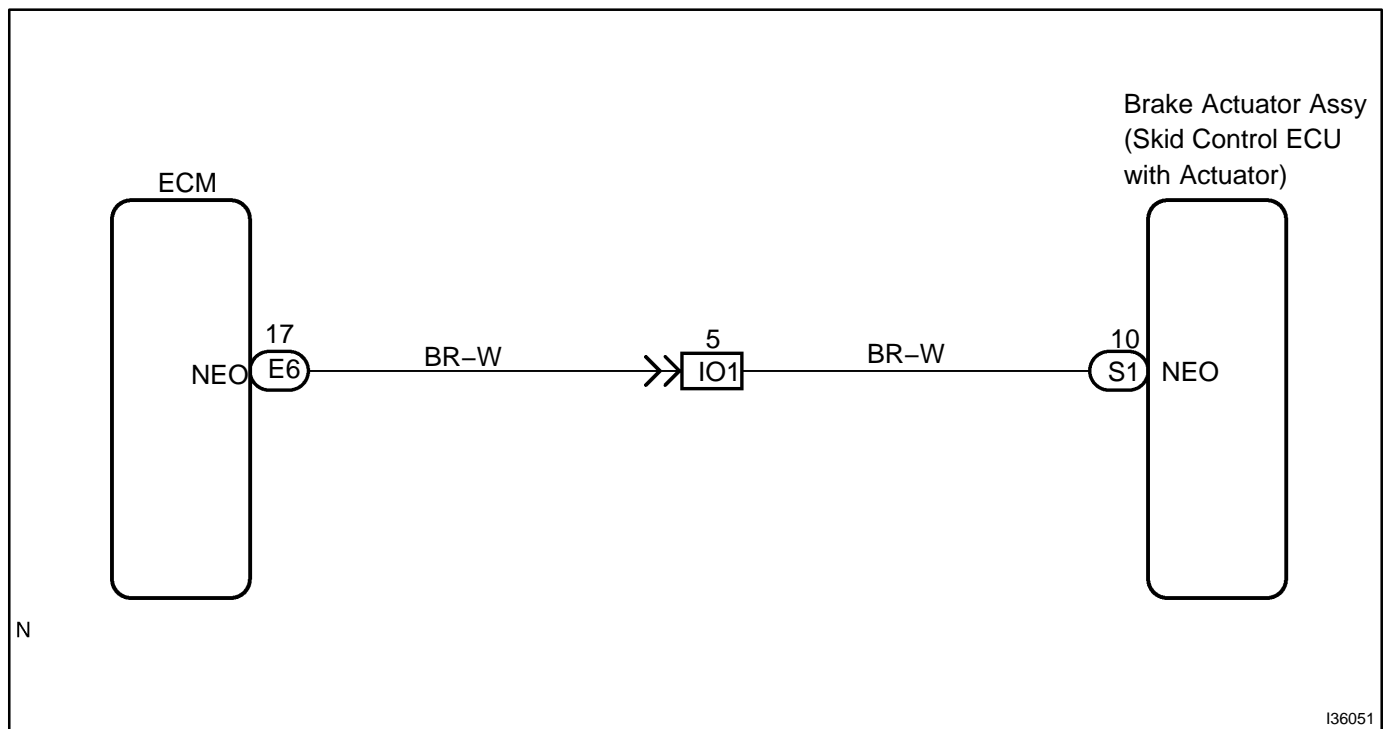
DTC	C1224/44	NE SIGNAL CIRCUIT
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## CIRCUIT DESCRIPTION

The skid control ECU receives engine revolution speed signals (NE signals) from the ECM.

DTC No.	DTC Detecting Condition	Trouble Area
C1224/44	<p>When any of the following (1 to 2) is detected:</p> <p>(1) All the following conditions continue for at least 10 seconds.</p> <ul style="list-style-type: none"> <li>• Data can be received properly from ECM at a speed of more than 18 mph (30 km/h).</li> <li>• Open or short in engine rpm signal circuit.</li> </ul> <p>(2) All the following conditions continue for at least 0.24 seconds.</p> <ul style="list-style-type: none"> <li>• TRAC is in operation.</li> <li>• Open or short in engine rpm signal circuit.</li> </ul>	<ul style="list-style-type: none"> <li>• NEO circuit</li> <li>• ECM</li> <li>• Brake actuator assy (skid control ECU)</li> </ul>

## WIRING DIAGRAM

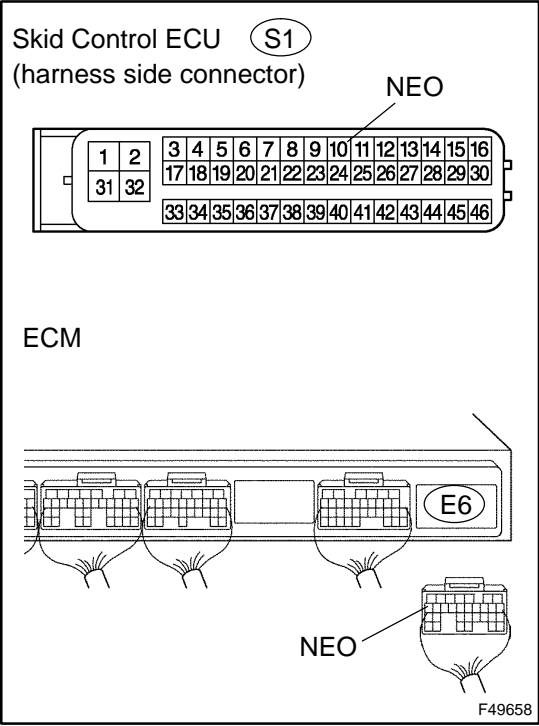


INSPECTION PROCEDURE

NOTICE:

When replacing the brake actuator assy, perform zero point calibration (see page 05-987).

1 CHECK HARNESS AND CONNECTOR(SKID CONTROL ECU – ECM)



- (a) Disconnect the skid control ECU connector S1 and the ECM connector E6.
- (b) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
S1-10 (NEO) – E6-17 (NEO)	Below 1 Ω

- (c) Measure the resistance according to the value(s) in the table below.

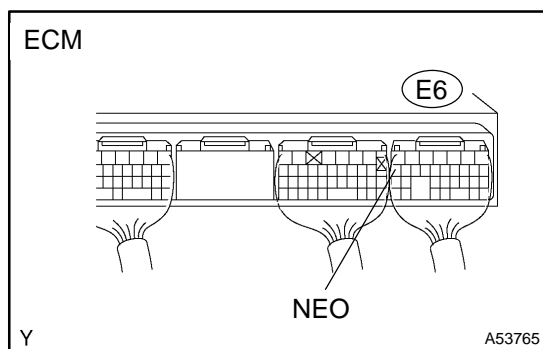
Standard:

Tester Connection	Specified Condition
S1-10 (NEO) – Body ground	10 kΩ or higher

OK

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

## 2 INSPECT ECM TERMINAL VOLTAGE(NEO TERMINAL)

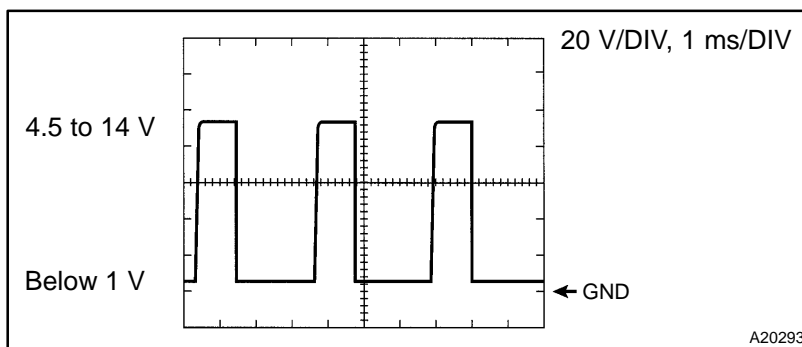


- Reconnect the ECM connector E6 and the skid control ECU connector S1.
- Check the signal waveform between terminal NEO (E6-17) of the ECM and body ground for the engine conditions below.

**OK:**

**A waveform similar to the illustration below is output.**

Tester Connection	Engine Condition	Specified condition
E6-17 (NEO) – Body ground	Engine stopped	4.5 to 14 V or below 1 V
	Idling	4.5 to 14 V ↔ below 1 V (Pulse)



**NG**

**REPLACE ECM**

**OK**

## 3 RECONFIRM DTC

- Clear the DTCs (see page 05-1002).
- Turn the ignition switch to the ON position.
- Are the same DTCs recorded? (see page 05-1002)

**NO**

**END**

**HINT:**

This DTC may be memorized due to a malfunction in the connector terminal.

**YES**

**REPLACE BRAKE ACTUATOR ASSY (SEE PAGE 32-63)**