

DTC**C1223/43****ABS Control System Malfunction****HINT:**

- This DTC is output when the VSC system detects a malfunction in the ABS system.
- When DTC C1223/43 is memorized, there is no malfunction in the skid control ECU.

DESCRIPTION

DTC No.	DTC Detection Condition	Trouble Area
C1223/43	Malfunction in ABS control system	ABS control system

1**CHECK DTC OUTPUT (FOR ABS SYSTEM)**

- Clear the DTCs (See page [BC-21](#)).
- Turn the ignition switch to the ON position.
- Are the same DTCs recorded (See page [BC-21](#)).

Result

Result	Proceed to
DTC is output	A
DTC is not output	B

B

**PROCEED TO NEXT CIRCUIT INSPECTION
SHOWN IN PROBLEM SYMPTOMS TABLE**

A**REPAIR CIRCUITS INDICATED BY OUTPUT DTCS**

DTC	C1224/44	NE Signal Circuit
------------	-----------------	--------------------------

DESCRIPTION

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

DTC No.	DTC Detection Condition	Trouble Area
C1224/44	When any of the following (1 to 2) is detected: 1. All the following conditions continue for at least 10 seconds. – Data can be received properly from ECM at a speed of more than 19 mph (30 km/h). – Open or short in engine rpm signal circuit. 2. All the following conditions continue for at least 0.24 seconds. – TRAC is in operation. – Open or short in engine rpm signal circuit.	<ul style="list-style-type: none"> • NEO circuit • ECM • Skid control ECU

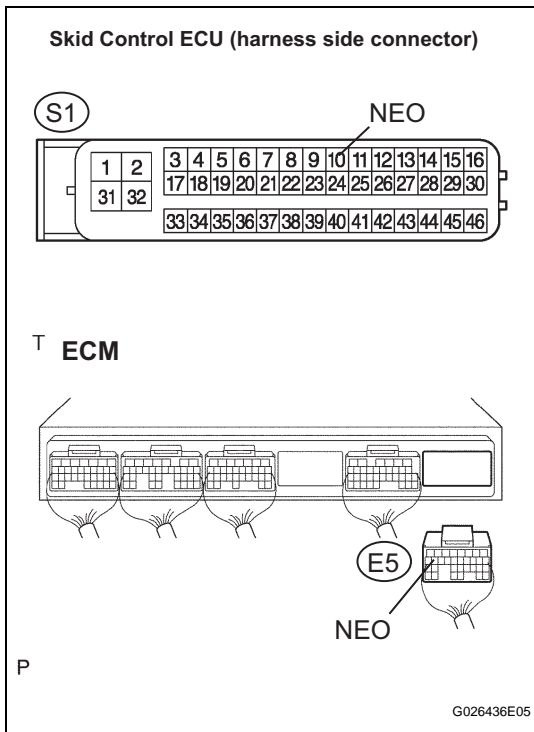
WIRING DIAGRAM



I037920E02

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

- (a) Disconnect the skid control ECU connector and the ECM connector.



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

Resistance

Tester Connection	Specified Condition
S1-10 (NEO) - E5-17 (NEO)	Below 1 Ω

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

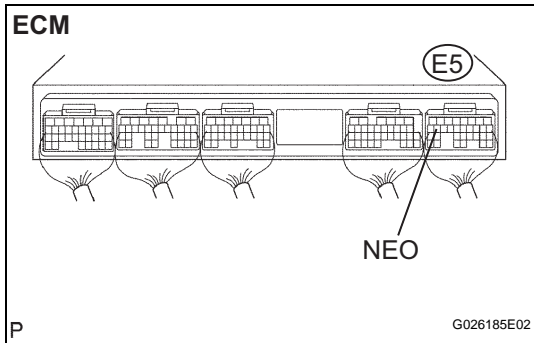
Resistance

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

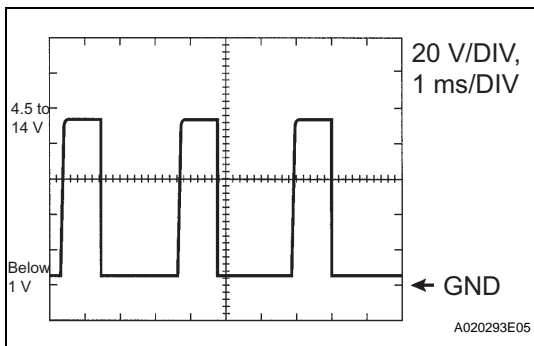
NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

2 INSPECT ECM TERMINAL VOLTAGE (NEO TERMINAL)



(a) Reconnect the ECM connector and the skid control ECU connector.



(b) Check the signal waveform between terminal NEO (E5-17) of the ECM and body ground for the engine conditions below.

OK

Tester Connection	Engine Condition	Specified condition
E5-17 (NEO) - Body ground	OFF (Ignition switch ON)	4.5 to 14 V or below 1 V
E5-17 (NEO) - Body ground	ON (Idling)	Pulse generation (4.5 to 14 V ↔ below 1 V)

NG REPLACE ECM

OK

3 INSPECT SKID CONTROL ECU CONNECTOR

(a) Check if the connector is connected.

OK:

The connector should be securely connected.

NG**CONNECT CONNECTOR CORRECTLY****OK****4 RECONFIRM DTC**(a) Clear the DTCs (See page [BC-21](#)).

(b) Turn the ignition switch to the ON position.

(c) Are the same DTCs recorded.

Result

Result	Proceed to
DTC is output	A
DTC is not output	B

NOTICE:

When replacing the ABS & TRACTION; actuator assembly, perform zero point calibration (See page [BC-5](#)).

B**PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE****A****REPLACE ABS AND TRACTION ACTUATOR**