DTC	C1201/51	Engine Control System Malfunction

DESCRIPTION

If trouble occurs in the engine control system, the ECM transmits the abnormality to the skid control ECU. The skid control ECU sets this DTC and the skid control ECU prohibits TRAC and VSC control.

DTC No.	DTC Detecting Condition	Trouble Area
C1201/51	At an engine speed of 500 rpm, a trouble signal in the engine control system continues for 5 secs. or more.	Engine control system

INSPECTION PROCEDURE

1	CHECK DTC FOR ENGINE

(a) Check if the normal code is recorded for engine control system.

Result

Condition	Proceed to
Normal System Code	A
Trouble Code	B

B → **INSPECT ENGINE CONTROL SYSTEM**

A

REPLACE ECM

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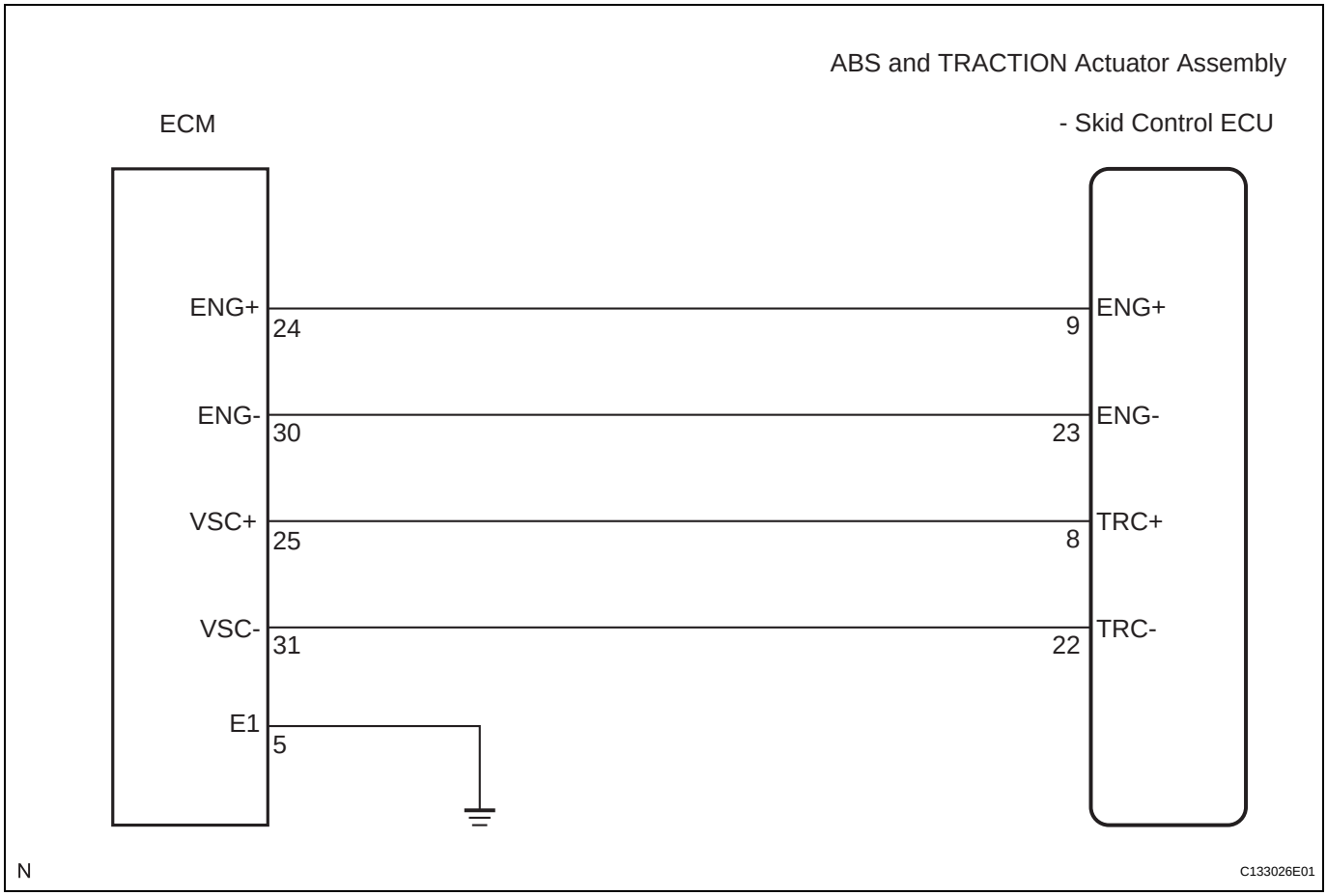
DTC	C1203/53	ECM Communication Circuit Malfunction

DESCRIPTION

The circuit is used to send TRAC and VSC control information (engine revolution signal) from the skid control ECU to the ECM (TRC+, TRC-), and engine control information from the ECM to the skid control ECU (ENG+, ENG-).

DTC No.	DTC Detecting Condition	Trouble Area
C1203/53	When any of the following (a to c) is detected: (a) All the following conditions continue for at least 5 seconds. * IG1 terminal voltage is 9.5 V or more. * Cannot send data to ECM. (b) All the following conditions continue for at least 5 seconds. * IG1 terminal voltage is more than 9.5 V. * Engine speed is 500 rpm or more. * Cannot receive data from ECM. (c) Engine, drive source and destination variations that are sent from the ECM do not match the ones of the skid control ECU.	• TRC+ or TRC- circuit • ENG+ or ENG- circuit • ECM

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

When replacing the ABS and TRACTION actuator assembly, perform zero point calibration (See page BC-80).

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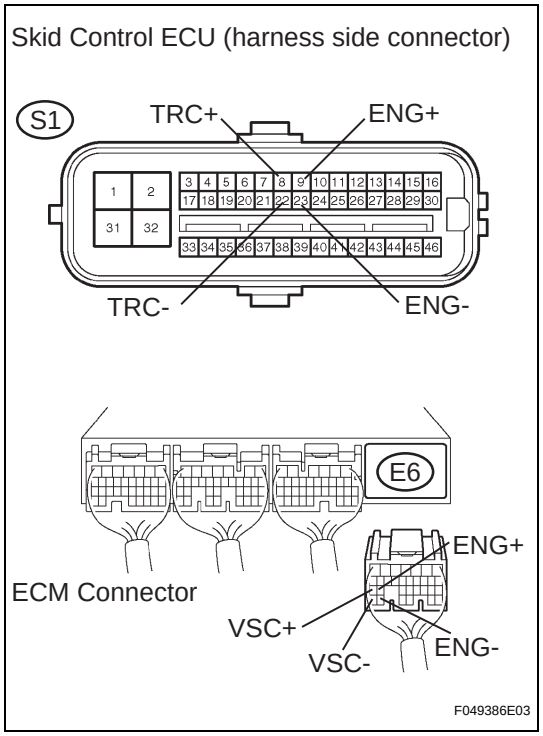
1 CHECK HARNESS AND CONNECTOR (ECM - SKID CONTROL ECU)



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

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

Standard resistance

Tester Connection	Specified Condition
S1-8 (TRC+) - E6-25 (VSC+)	Below 1 Ω
S1-22 (TRC-) - E6-31 (VSC-)	Below 1 Ω
S1-9 (ENG+) - E6-24 (ENG+)	Below 1 Ω
S1-23 (ENG-) - E6-30 (ENG-)	Below 1 Ω

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

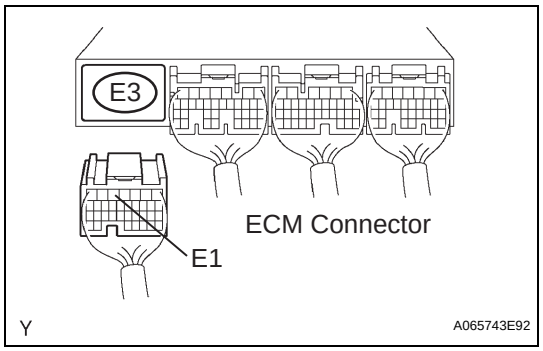
Standard resistance

Tester Connection	Specified Condition
S1-8 (TRC+) - Body ground	10 kΩ or higher
S1-22 (TRC-) - Body ground	10 kΩ or higher
S1-9 (ENG+) - Body ground	10 kΩ or higher
S1-23 (ENG-) - Body ground	10 kΩ or higher

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

2 INSPECT ECM (E1 TERMINAL)



(a) Disconnect the ECM connector.

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

Standard resistance

Tester Connection	Specified Condition
E3-5 (E1) - Body ground	Below 1 Ω

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR (E1 CIRCUIT)**

OK

REPLACE ABS AND TRACTION ACTUATOR ASSEMBLY

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