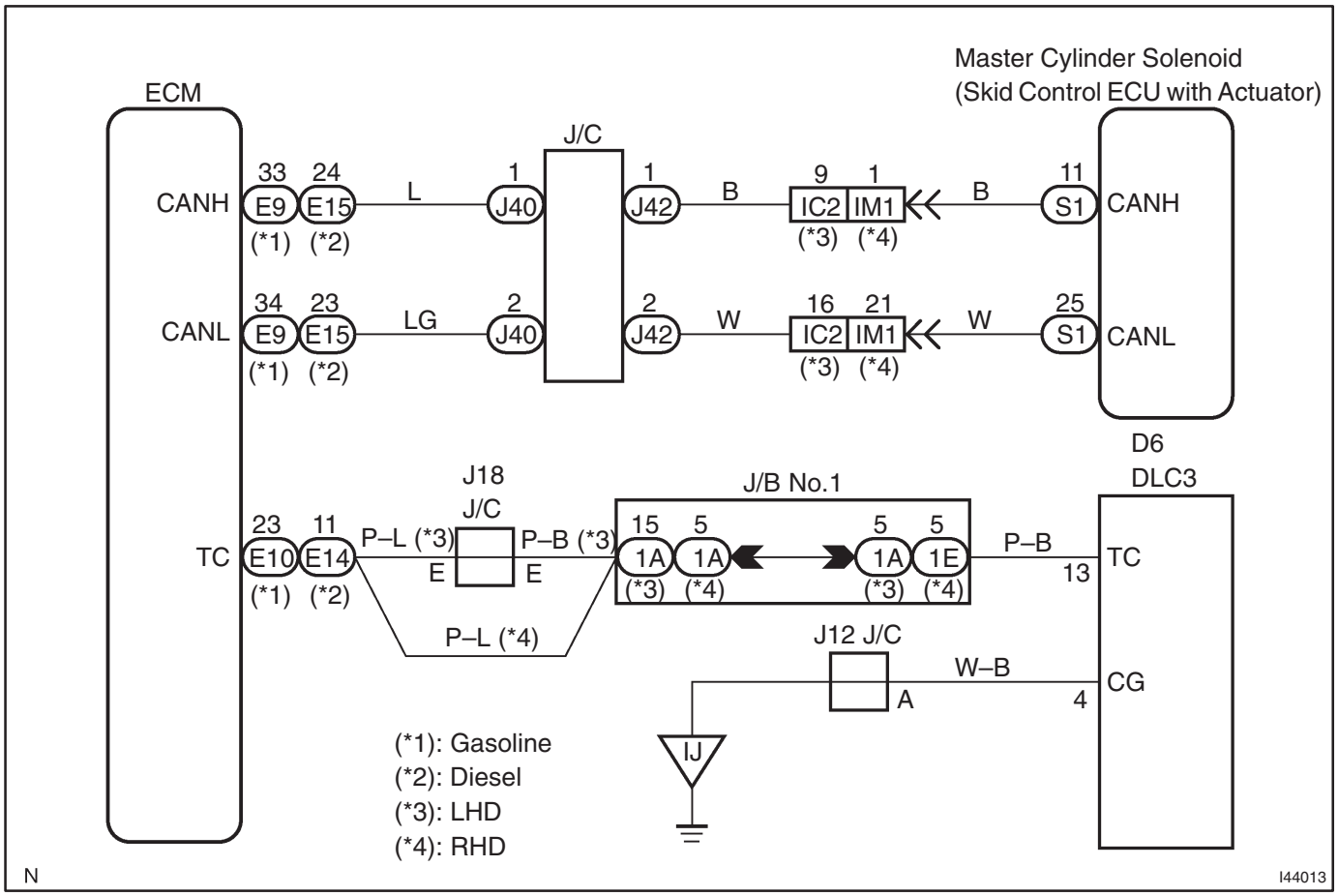
TC AND CG TERMINAL CIRCUIT

CIRCUIT DESCRIPTION

DTC output mode is set by connecting terminals TC and CG of the DLC3.
The DTCs are displayed by blinking the ABS warning light and VSC TRC warning light.

WIRING DIAGRAM



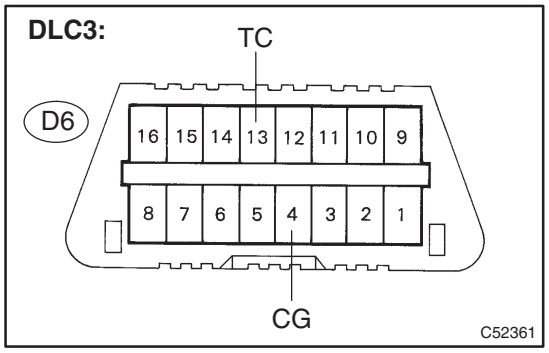
HINT:
When each warning light stays blinking, a ground short in the wiring of terminal TC of the DLC3 or an internal ground short in each ECU is suspected.

INSPECTION PROCEDURE

NOTICE:

When replacing the master cylinder solenoid, perform zero point calibration (see page 05–744).

1	INSPECT DLC3 (BETWEEN DLC3 (TC) AND DLC3 (CG))



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

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

Standard:

Tester Connection	Specified Condition
D6–13 (TC) – D6–4 (CG)	10 to 14 V

NG → **Go to step 3**

OK

2	CHECK DTC (FOR CAN COMMUNICATION SYSTEM)

(a) Check for CAN communication system DTC (see page 05–1443).

Result:

DTC is not output	A
DTC is output	B

B → **REPAIR CAN COMMUNICATION SYSTEM ACCORDING TO OUTPUT CODE (SEE PAGE 05–1446)**

A

REPLACE MASTER CYLINDER SOLENOID (SEE PAGE 32–12)

3	CONFIRM VEHICLE MODELS

(a) Confirm the vehicle models.

Gasoline	A
Diesel	B

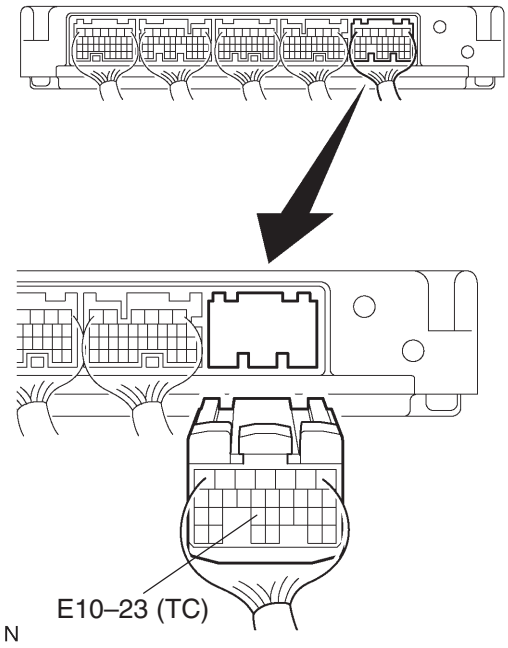
B → **Go to step 5**

A

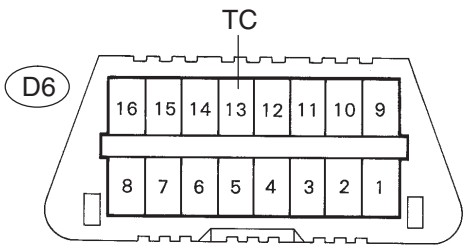
4	CHECK HARNESS AND CONNECTOR (BETWEEN ECM AND DLC3 (TC)) (SEE PAGE 01–26)

ECM

Wire Harness View:



DLC3:



I44049
C52361
I45408

(a) Turn the ignition switch off.
(b) Disconnect the ECM connector.
(c) Measure the resistance according to the value(s) in the table below.

Standard:

Tester Connection	Specified Condition
E10–23 (TC) – D6–13 (TC)	Below 1 Ω

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

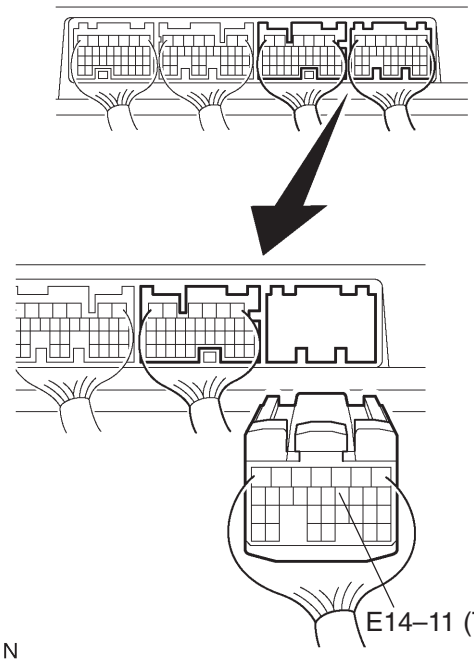
OK

Go to step 6

5	CHECK HARNESS AND CONNECTOR (BETWEEN ECM AND DLC3 (TC)) (SEE PAGE 01–26)

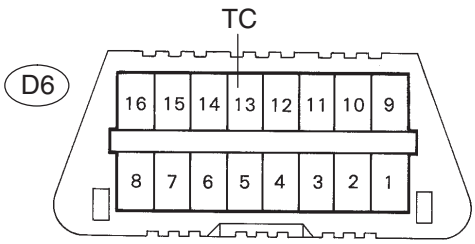
ECM

Wire Harness View:



N

DLC3:



I41958
C52361

I45409

(a) Turn the ignition switch off.
(b) Disconnect the ECM connector.
(c) Measure the resistance according to the value(s) in the table below.

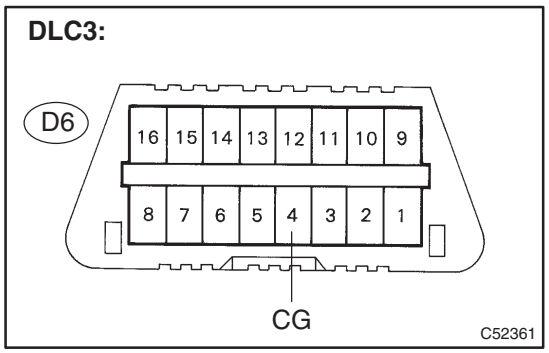
Standard:

Tester Connection	Specified Condition
E14–11 (TC) – D6–13 (TC)	Below 1 Ω

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

OK

6	CHECK HARNESS AND CONNECTOR (BETWEEN DLC3 (CG) AND BODY GROUND) (SEE PAGE 01–26)



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

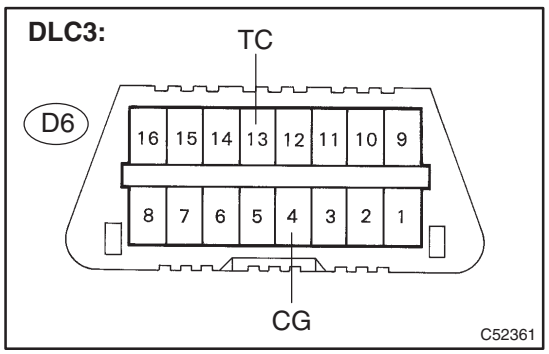
Standard:

Tester Connection	Specified Condition
D6–4 (CG) – Body ground	Below 1 Ω

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

OK

7	CHECK ECM (DLC3 (TC) INPUT)



(a) Using SST, connect terminals TC and CG of the DLC3.
(b) Check that the engine warning light is blinking.

Result:

Engine warning light is blinking	A
Engine warning light is not blinking	B

B → **REPAIR OR REPLACE WIRE HARNESS OR ECM (TC AND/OR ECM CIRCUIT)**

A

8	CHECK DTC (FOR CAN COMMUNICATION SYSTEM)

(a) Check for CAN communication system DTC (see page 05–1443).

Result:

DTC is not output	A
DTC is output	B

B → **REPAIR CAN COMMUNICATION SYSTEM ACCORDING TO OUTPUT CODE (SEE PAGE 05–1446)**

A

REPLACE MASTER CYLINDER SOLENOID (SEE PAGE 32–12)