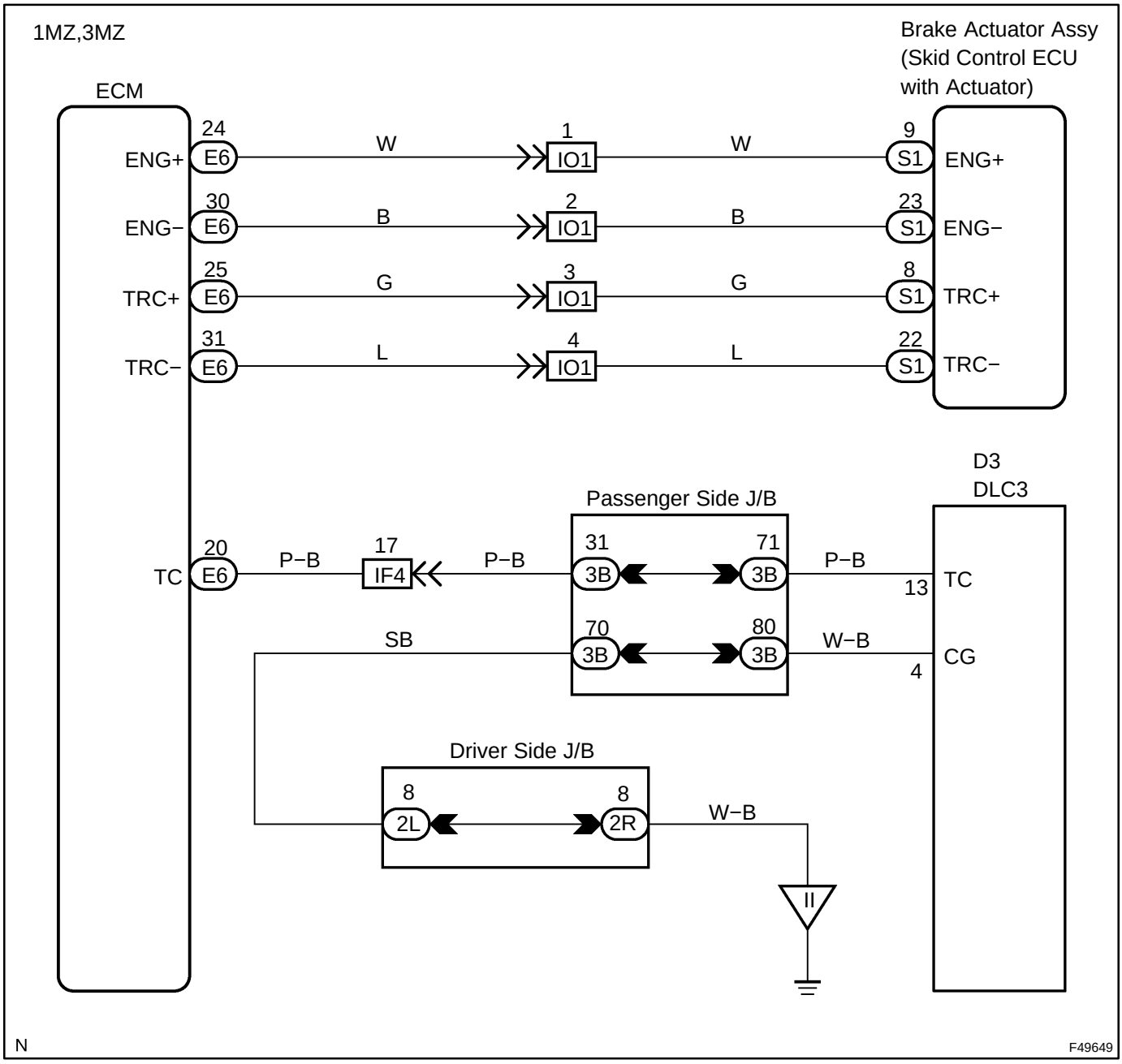
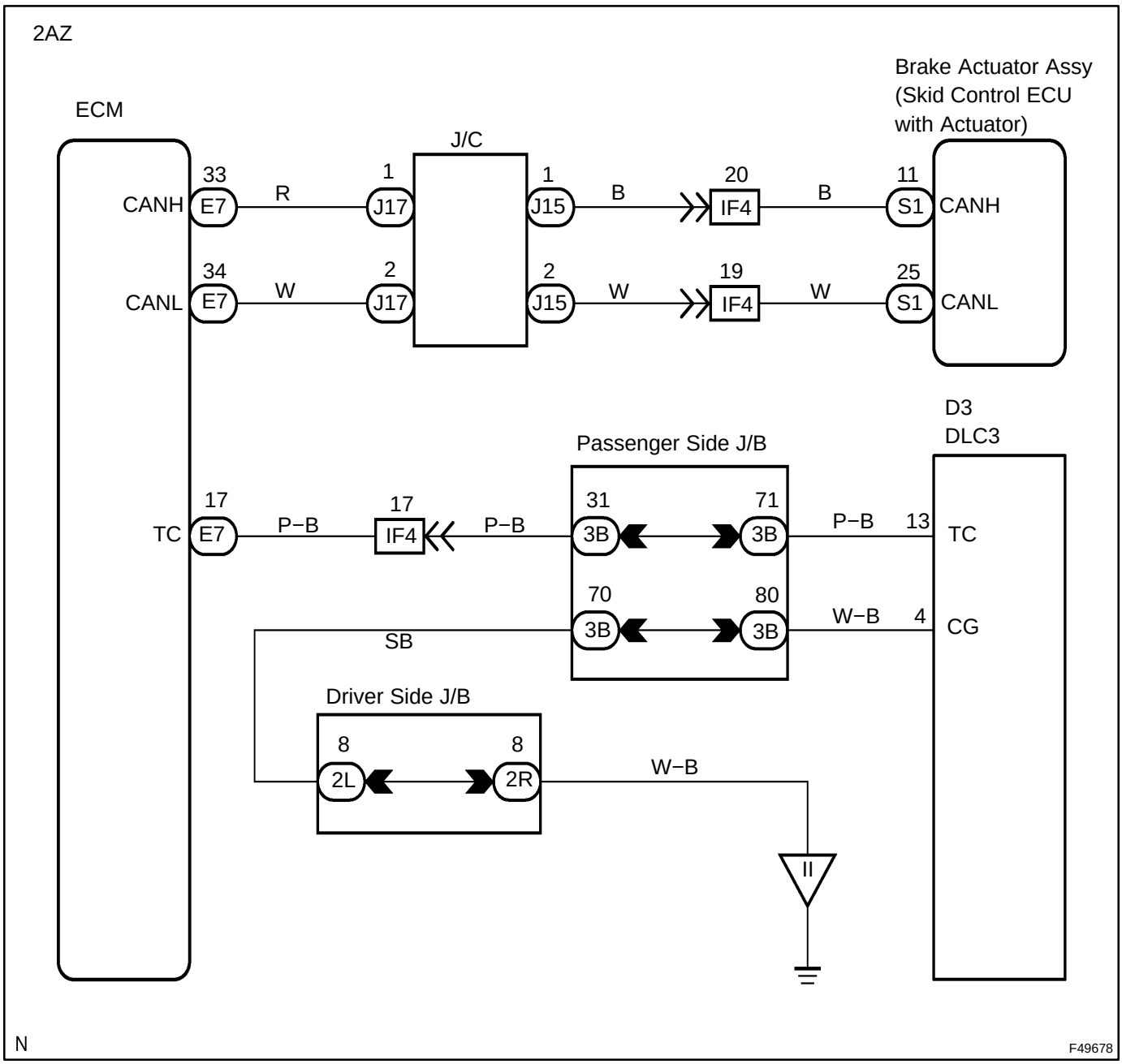
TC TERMINAL CIRCUIT

CIRCUIT DESCRIPTION

Connecting terminals Tc and CG of the DLC3 causes ECU to display the DTCs by blinking the ABS warning light.

WIRING DIAGRAM



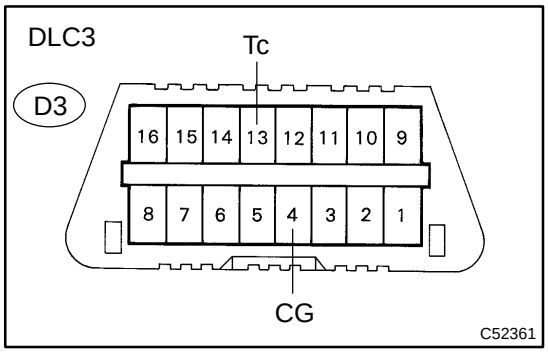

2AZ
ECM
Brake Actuator Assy
(Skid Control ECU
with Actuator)
J/C
CANH
33
E7
R
1
J17
1
J15
B
20
IF4
B
11
S1
CANH
CANL
34
E7
W
2
J17
2
J15
W
19
IF4
W
25
S1
CANL
D3
DLC3
Passenger Side J/B
TC
17
E7
P−B
17
IF4
P−B
31
3B
71
3B
P−B
13
TC
70
3B
80
3B
W−B
4
CG
SB
Driver Side J/B
8
2L
8
2R
W−B
N
F49678

INSPECTION PROCEDURE

NOTICE:

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

1 INSPECT DLC3 TERMINAL VOLTAGE(Tc TERMINAL)



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

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

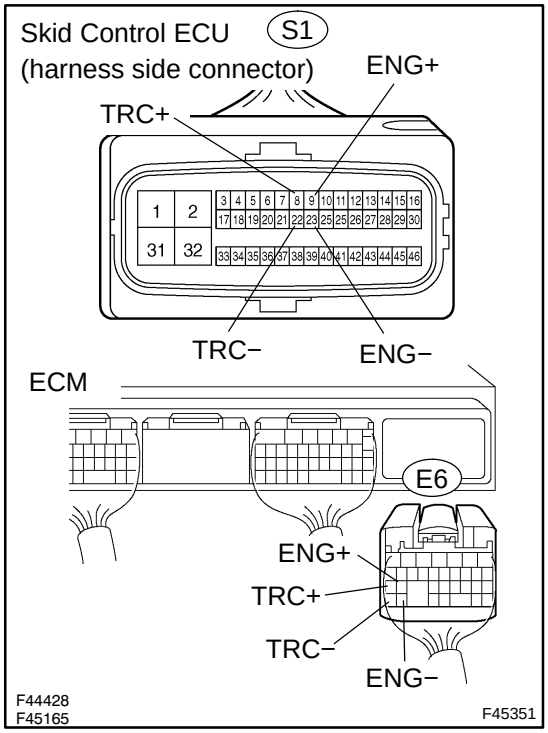
Standard:

Tester Connection	Specified Condition
D3−13 (TC) − D3−4 (CG)	10 to 14 V

NG → **Go to step 3**

OK

2 CHECK HARNESS AND CONNECTOR(ECM − SKID CONTROL ECU)



1MZ, 3MZ:

(a) Disconnect the skid control ECU connector S1 and ECM connector E6.

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

Standard:

Tester Connection	Specified Condition
S1−8 (TRC+) − E6−25 (TRC+)	Below 1 Ω
S1−22 (TRC−) − E6−31 (TRC−)	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:

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**

2AZ:

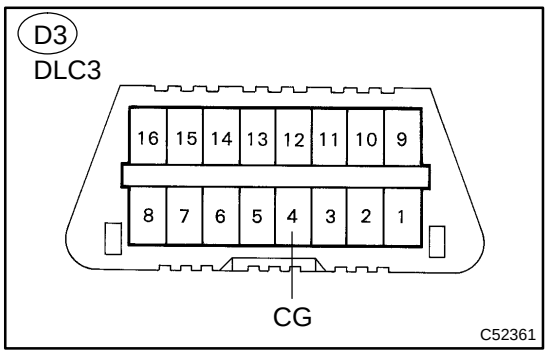
(a) Check CAN communication system (see page 05−2174).
OK:CAN communication system is normal.

NG	**CHECK CAN COMMUNICATION SYSTEM (SEE PAGE 05−2174)**

OK

REPLACE BRAKE ACTUATOR ASSY (SEE PAGE 32−63)

3	**CHECK HARNESS AND CONNECTOR(DLC3 − BODY GROUND)**



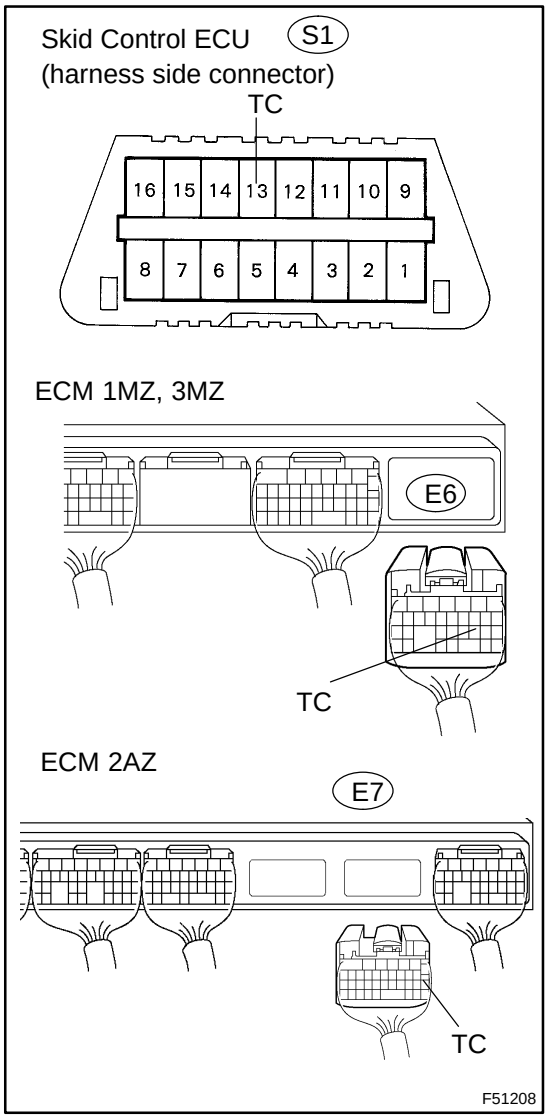
(a) Measure the resistance according to the value in the table below.
Standard:

Tester Connection	Specified Condition
D3−4 (CG) − Body ground	Below 1 Ω

NG	**REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

4 CHECK HARNESS AND CONNECTOR(ECM − DLC3)



(a) Disconnect the ECM connector.

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

Standard:

Tester Connection	Specified Condition
(1MZ,3MZ) E6−20 (TC) − D3−13 (TC)	Below 1 Ω
(2AZ) E7−17 (TC) − D3−13 (TC)	Below 1 Ω

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

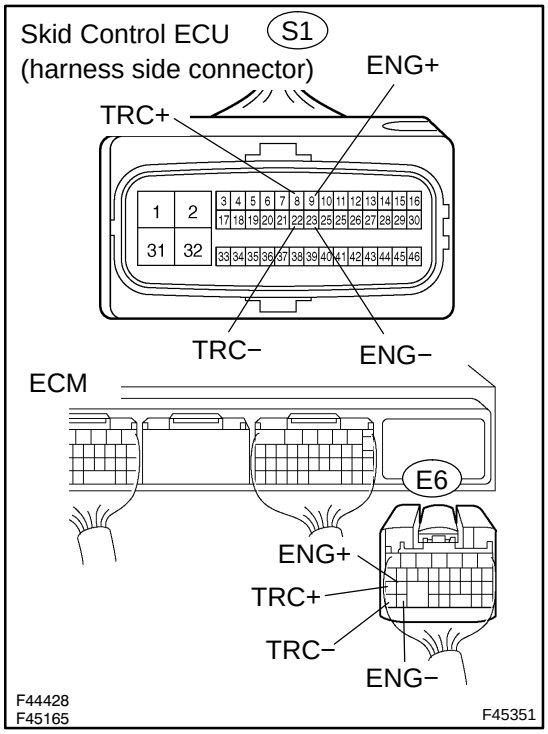
Standard:

Tester Connection	Specified Condition
D3−13 (TC) − Body ground	10 kΩ or higher

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

OK

5 CHECK HARNESS AND CONNECTOR(ECM − SKID CONTROL ECU)



1MZ, 3MZ:

(a) Disconnect the skid control ECU connector S1 and ECM connector E6.

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

Standard:

Tester Connection	Specified Condition
S1−8 (TRC+) − E6−25 (TRC+)	Below 1 Ω
S1−22 (TRC−) − E6−31 (TRC−)	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:

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**

2AZ:

(a) Check CAN communication system (see page 05−2174).

OK:CAN communication system is normal.

NG → **CHECK CAN COMMUNICATION SYSTEM (SEE PAGE 05−2174)**

OK

REPLACE BRAKE ACTUATOR ASSY (SEE PAGE 32−63)