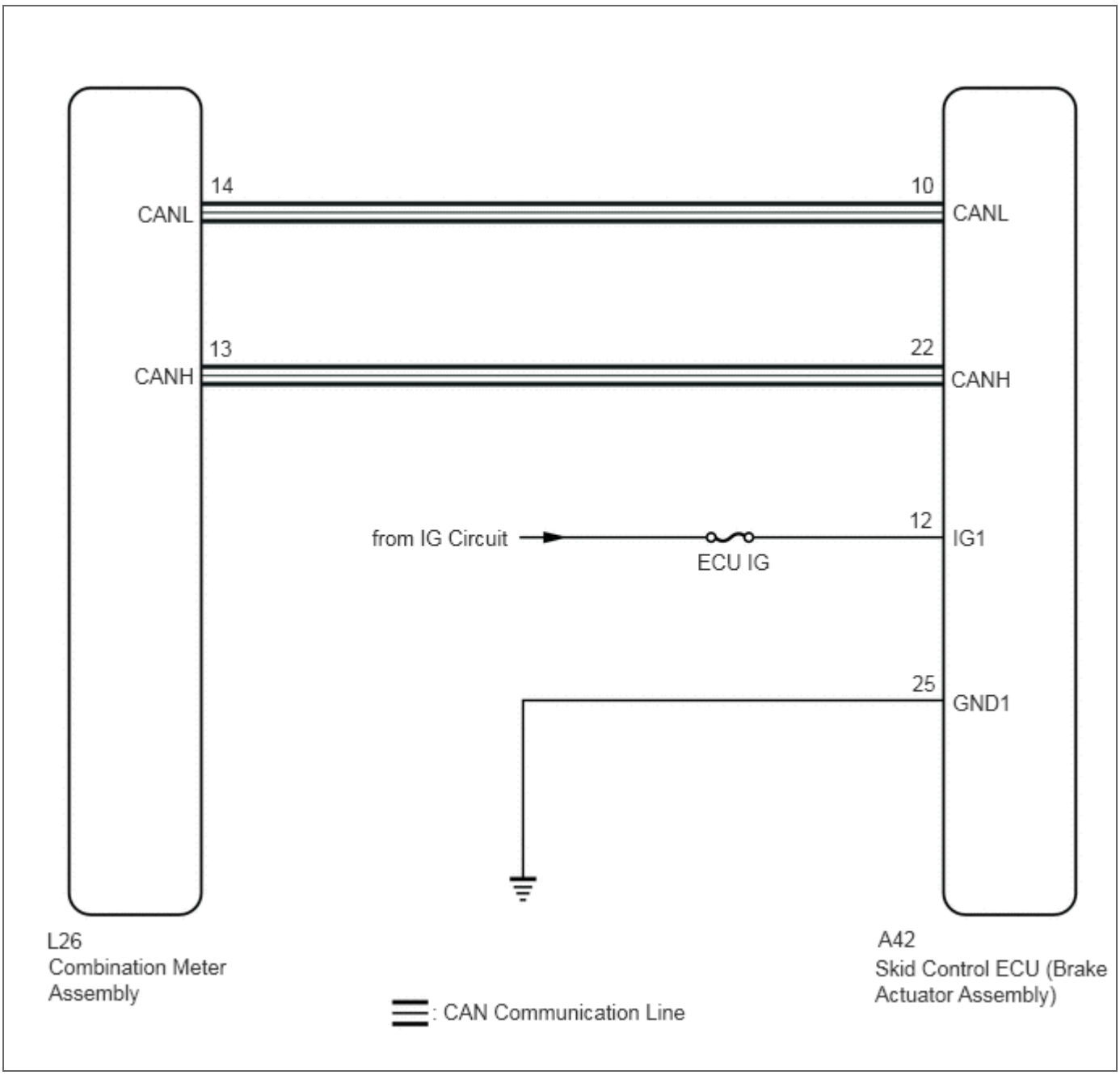
Print Preview Exit

BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS VEHICLE STABILITY CONTROL SYSTEM Slip Indicator Light Remains ON

DESCRIPTION

The skid control ECU (brake actuator assembly) is connected to the combination meter assembly via CAN communication.
The slip indicator light blinks during VSC and/or TRC operation.
If a malfunction is detected, the slip indicator light comes on to warn the driver.
Click hereBrake>BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS>VEHICLE STABILITY CONTROL SYSTEM>DIAGNOSIS SYSTEM

WIRING DIAGRAM



CAUTION / NOTICE / HINT

NOTICE:

When replacing the skid control ECU (brake actuator assembly), perform zero point calibration and store system information.
Click hereBrake>BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS>VEHICLE STABILITY CONTROL SYSTEM>CALIBRATION

- Inspect the fuses for circuits related to this system before performing the following inspection procedure.

PROCEDURE

1.CHECK CAN COMMUNICATION SYSTEM

a. Check if CAN communication system DTCs are output.
for LHD: Click herePower Source / Network>NETWORKING>CAN COMMUNICATION SYSTEM (for LHD with VSC)>DIAGNOSIS SYSTEM
for RHD: Click herePower Source / Network>NETWORKING>CAN COMMUNICATION SYSTEM (for RHD with VSC)>DIAGNOSIS SYSTEM

Result:

Proceed to
DTC is not output
DTC is output

DTC is not output

2.CHECK IF BRAKE ACTUATOR ASSEMBLY CONNECTOR IS SECURELY CONNECTED

DTC is output

CHECK CAN COMMUNICATION SYSTEM

for LHD: Click herePower Source / Network>NETWORKING>CAN COMMUNICATION SYSTEM (for LHD with VSC)>HOW TO PROCEED WITH TROUBLESHOOTING
for RHD: Click herePower Source / Network>NETWORKING>CAN COMMUNICATION SYSTEM (for RHD with VSC)>HOW TO PROCEED WITH TROUBLESHOOTING

2.CHECK IF BRAKE ACTUATOR ASSEMBLY CONNECTOR IS SECURELY CONNECTED

a. Check if the skid control ECU (brake actuator assembly) connector is securely connected.
OK:
The connector is securely connected.

Result:

Proceed to
OK
NG

OK

3.INSPECT BATTERY

NG

CONNECT CONNECTOR TO ECU CORRECTLY

3.INSPECT BATTERY

a. Check the battery voltage.
Standard voltage:
11 to 14 V

Result:

Proceed to
OK
NG

OK

4.CHECK TERMINAL VOLTAGE (IG1 TERMINAL)

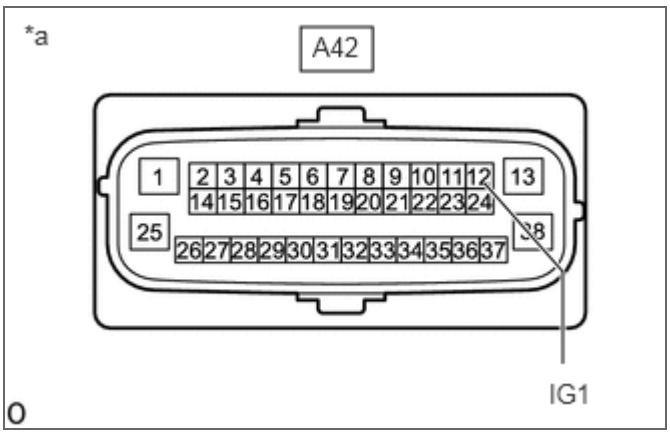
NG

CHECK OR REPLACE CHARGING SYSTEM OR BATTERY

for 1VD-FTV: Click herePower Source / Network>1VD-FTV BATTERY / CHARGING>CHARGING SYSTEM>ON-VEHICLE INSPECTION
for 1GR-FE: Click herePower Source / Network>1GR-FE BATTERY / CHARGING>CHARGING SYSTEM>ON-VEHICLE INSPECTION

4.CHECK TERMINAL VOLTAGE (IG1 TERMINAL)

a.



*a	Front view of wire harness connector (to Skid Control ECU [Brake Actuator Assembly])

Disconnect the A42 skid control ECU (brake actuator assembly) connector.

b. Turn the ignition switch to ON.

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

Standard Voltage:

Tester Connection	Switch Condition	Specified Condition
A42-12 (IG1) - Body ground	Ignition switch ON	11 to 14 V

Result:

Proceed to
OK
NG

OK

5.CHECK HARNESS AND CONNECTOR (GND1 TERMINAL)

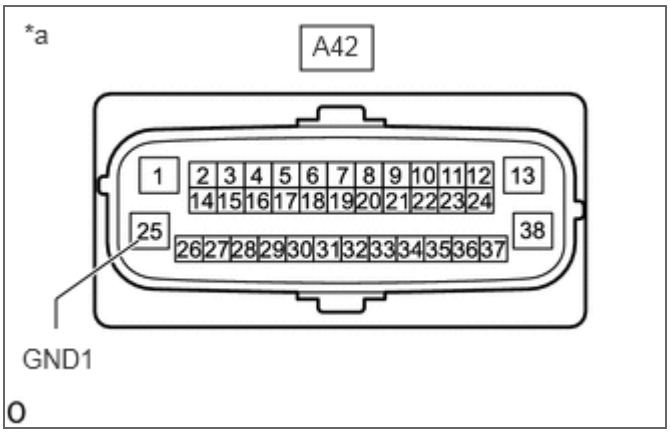
NG

REPAIR OR REPLACE HARNESS OR CONNECTOR (IG1 CIRCUIT)

5.CHECK HARNESS AND CONNECTOR (GND1 TERMINAL)

a. Turn the ignition switch off.

b.



*a	Front view of wire harness connector (to Skid Control ECU [Brake Actuator Assembly])

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

Standard Resistance:

Tester Connection	Condition	Specified Condition
A42-25 (GND1) - Body ground	Always	Below 1 Ω

Result:

Proceed to
OK
NG

OK

6.READ VALUE USING GTS (SLIP INDICATOR LIGHT)

NG

REPAIR OR REPLACE HARNESS OR CONNECTOR (GND1 CIRCUIT)

6.READ VALUE USING GTS (SLIP INDICATOR LIGHT)

a. Reconnect the A42 skid control ECU (brake actuator assembly) connector.

b. Connect the GTS to the DLC3.

c. Turn the ignition switch to ON.

d. Turn the GTS on.

e. Enter the following menus: Chassis / ABS/VSC/TRC / Data List.

f. According to the display on the GTS, read the Data List.

Chassis > ABS/VSC/TRC > Data List

Tester Display	Measurement Item	Range	Normal Condition	Diagnostic Note
Slip Indicator Light	SLIP indicator light	OFF or ON	OFF: Indicator light off ON: Indicator light on	-

Chassis > ABS/VSC/TRC > Data List

Tester Display
Slip Indicator Light

Execute

g. Check the GTS display condition of the slip indicator light.

Result:

Proceed to
Display of the Data List remains OFF
Display of the Data List remains ON

Display of the Data List remains OFF

INSPECT METER / GAUGE SYSTEM

Click hereVehicle Interior>METER / GAUGE / DISPLAY>METER / GAUGE SYSTEM>HOW TO PROCEED WITH TROUBLESHOOTING

Display of the Data List remains ON

REPLACE BRAKE ACTUATOR ASSEMBLY

Click hereBrake>BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS>BRAKE ACTUATOR (w/ VSC) >REMOVAL

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