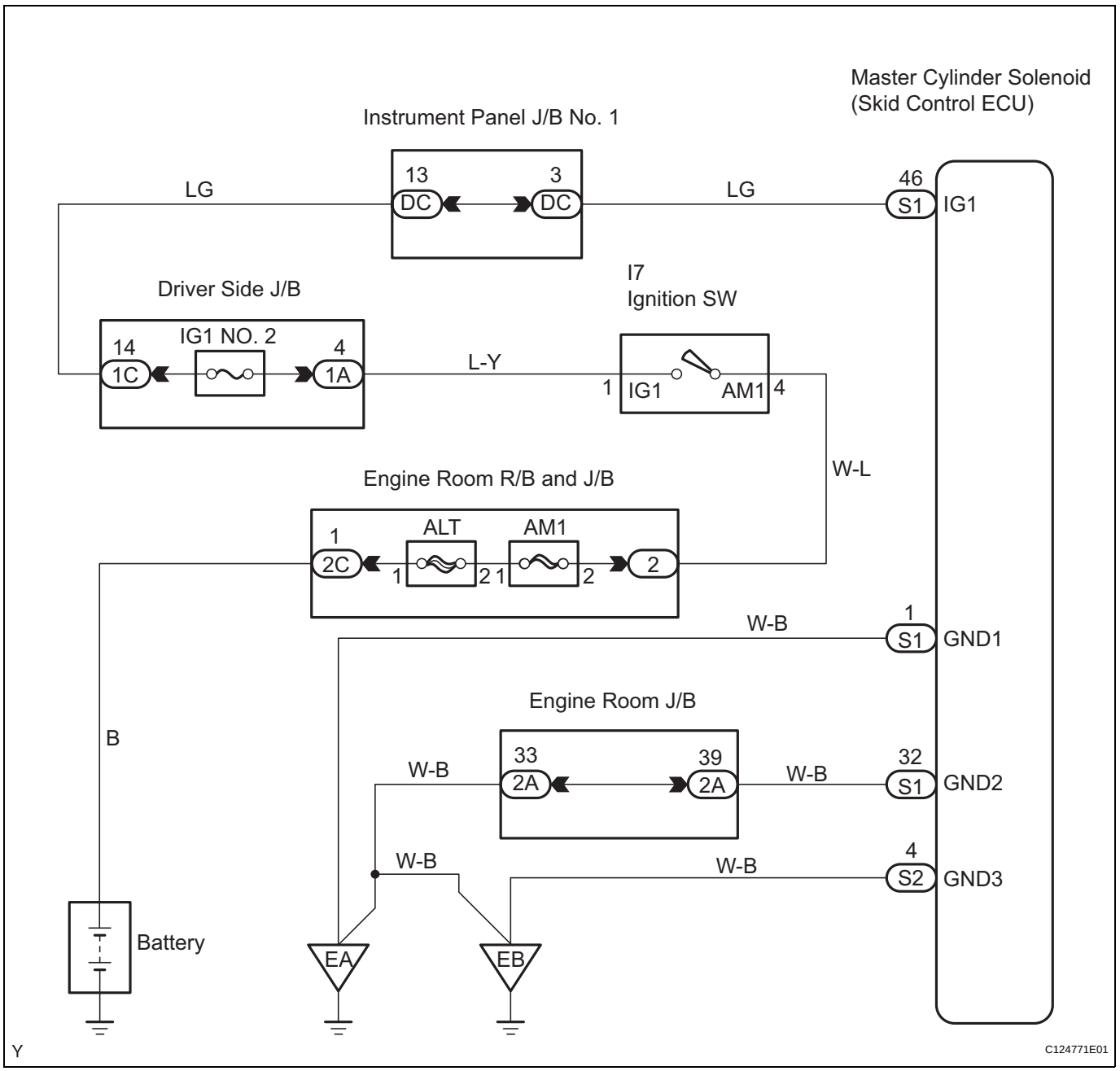
DTC	C1241/41	Low Battery Positive Voltage

DESCRIPTION

If the voltage supplied to the IG1 terminal is not within the DTC detection threshold due to malfunctions in parts such as the battery and alternator circuit, this DTC is stored.

DTC No.	DTC Detecting Conditions	Trouble Areas
C1241/41	When either of following conditions detected: 1. Both of following conditions continue for at least 10 seconds. • Vehicle speed more than 2 mph (3 km/m). • IG1 terminal voltage less than 9.5 V. 2. All of following conditions continue for at least 0.2 seconds. • Solenoid relay remains ON. • IG1 terminal voltage less than 9.5 V. • Relay contact open.	• Battery • IG1 NO. 2 fuse • Charging system • Power source circuit

WIRING DIAGRAM



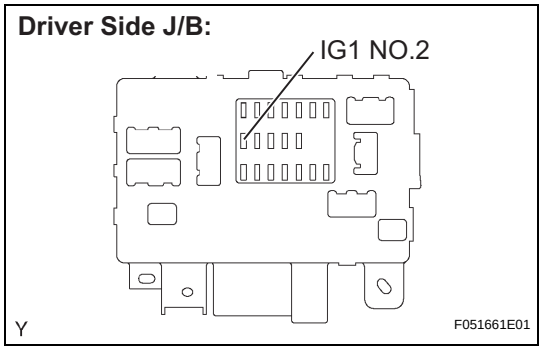
1	INSPECT BATTERY

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

NG → **INSPECT CHARGING SYSTEM**

OK

2	**INSPECT FUSE (IG1 NO. 2)**



(a) Remove the IG1 NO. 2 fuse from the driver side J/B.
(b) Measure the resistance of the IG1 NO. 2 fuse.
Standard Resistance:
Below 1 Ω
(c) Reinstall the IG1 NO. 2 fuse.

NG → **CHECK FOR SHORTS IN ALL HARNESSES AND CONNECTORS CONNECTED TO FUSE AND REPLACE FUSE**

OK

3	**READ VALUE OF DATA LIST (IG VOLTAGE)**

(a) Connect the intelligent tester to the DLC3.
(b) Turn the ignition switch to the ON position.
(c) Turn the intelligent tester ON.
(d) Select "DATA LIST" mode on the intelligent tester.

Item	Measurement Item / Range (Display)	Normal Condition	Diagnostic Note
IG VOLTAGE	ECU power supply voltage / TOO LOW / NORMAL / TOO HIGH	TOO HIGH: 14 V or more NORMAL: 9.5 V or 14V TOO LOW: Below 9.5 V	-

(e) Measure the voltage output from the ECU displayed on the intelligent tester.
OK:
"Normal" is displayed.

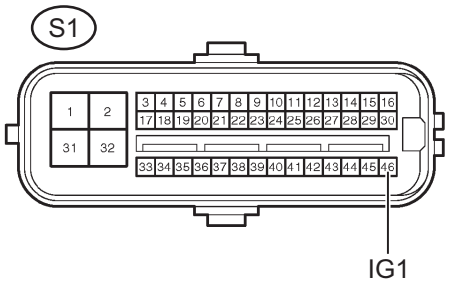
NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

BC

4 INSPECT SKID CONTROL ECU (IG1 TERMINAL VOLTAGE)

Skid Control ECU (harness side connector):



C121700E13

(a) Disconnect the skid control ECU connector.
(b) Turn the ignition switch to the ON position.
(c) Measure the voltage.

Standard Voltage

Tester Connection	Specified Condition
S1-46 (IG1) - Body ground	10 to 14 V

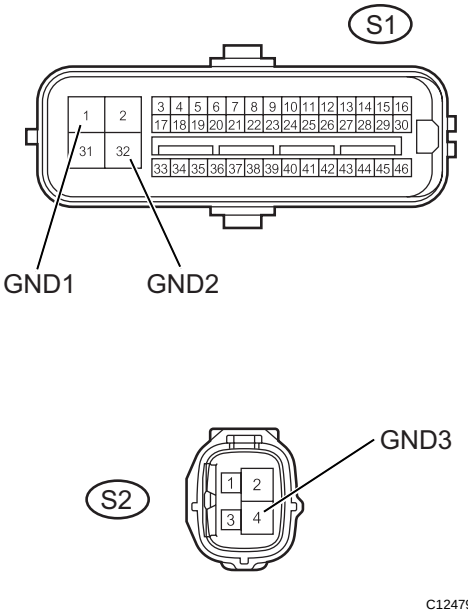
(d) Turn the ignition switch to OFF.
(e) Reconnect the skid control ECU connector.

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

OK

5 CHECK HARNESS AND CONNECTOR (GND TERMINAL CONTINUITY)

Skid Control ECU (harness side connector):



C124799E01

(a) Disconnect the skid control ECU connectors.
(b) Measure the resistance.

Standard Resistance

Tester Connection	Specified Condition
S1-1 (GND1) - Body ground	Below 1 Ω
S1-32 (GND2) - Body ground	Below 1 Ω
S1-4 (GND3) - Body ground	Below 1 Ω

(c) Reconnect the skid control ECU connectors.

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

OK

6 RECONFIRM DTC

(a) Clear the DTCs (See page BC-118).
(b) Drive the vehicle at a speed of 1.9 mph (3 km/h) or more for 10 seconds or more.

(c) Check if the same DTCs are detected.
HINT:
Reinstall the sensors, connectors, etc. and restore the vehicle to its previous condition, before rechecking for DTCs.

Result	Proceed to
DTC output	A
DTC not output (When troubleshooting in accordance with DTC CHART)	B
DTC not output (When troubleshooting in accordance with PROBLEM SYMPTOMS TABLE)	C

B → **END**

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

A

REPLACE MASTER CYLINDER SOLENOID