DTC	C1241/41	Low Battery Positive Voltage or Abnormally High Battery Positive Voltage
DTC	C1242/42	Open in IG1 / IG2 Power Source Circuit

DESCRIPTION

These codes are memorized when the power source voltage for the skid control ECU drops or the voltage for the ABS NO. 1, ABS NO. 2 relay operation drops.

Codes may be memorized when the voltage of the auxiliary battery temporarily drops.

When the power source voltage is too high, the skid control ECU stops functioning and outputs no DTCs, and the ABS and BRAKE warning light remain on.

HINT:

DTC C1256/56 (accumulator low voltage malfunction) may be memorized if the power source voltage drops.

DTC No.	Detailed Code	DTC Detection Condition	Trouble Area
C1241/41	81	 System 1 is under the following conditions when READY is on: Linear solenoid cannot receive enough current (brake is applied). BS voltage is less than 8.9 V for at least 3 sec. (brake is not applied). 12 V-power source voltage inside ECU is less than 8.5 V when main relay is opened or VCM voltage is less than 4.7 V or 5 V or more for at least 0.05 sec. 	 ABS NO. 1 relay Harness and connector Skid control power supply circuit Brake control power supply assembly Hybrid control system
C1241/41	82	 System 2 is under the following conditions when READY is on: Linear solenoid cannot receive enough current (brake is applied). BS voltage is less than 8.9 V for at least 3 sec. (brake is not applied). 12 V-power source voltage inside ECU is less than 8.5 V when main relay is opened or VCM voltage is less than 4.7 V or 5.3 V or more for at least 0.05 sec. 	 ABS NO. 2 relay Harness and connector Skid control power supply circuit Brake control power supply assembly Hybrid control system
C1241/41	83	Capacitor mode signal is received from brake control power supply for 3 sec. or more when READY is on.	 Brake control power supply assembly Brake control power supply Hybrid control system
C1241/41	84	ABS is requested to operate when the power source voltage of the main relay system is dropping.	 ABS NO. 1 relay ABS NO. 2 relay Harness and connector
C1242/42	87	Voltage is applied to IG2 terminal, but not applied to IG1 terminal for at least 4 sec.	 ABS NO. 1 relay Harness and connector Skid control power supply circuit Brake control power supply assembly Hybrid control system

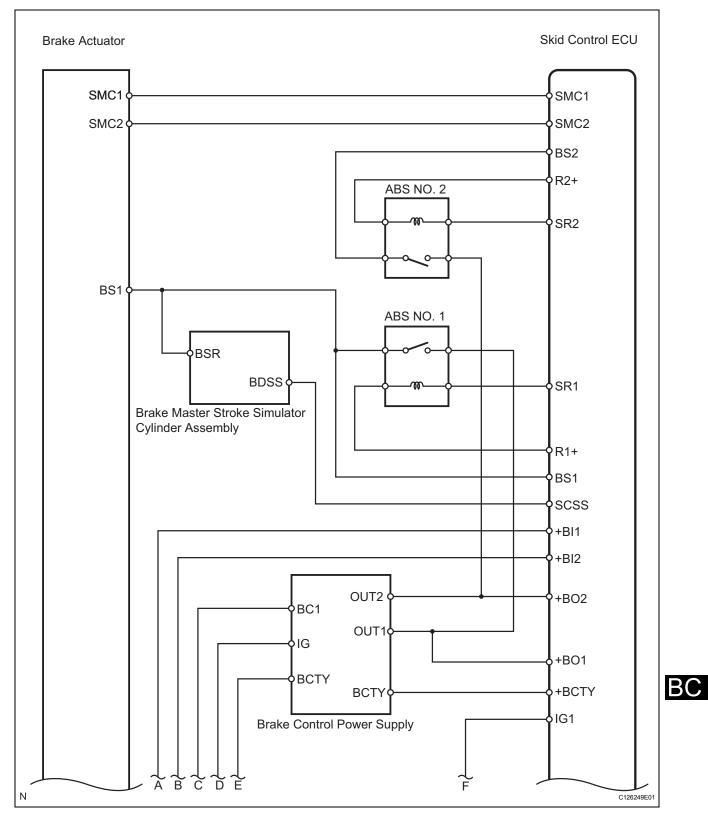
BC

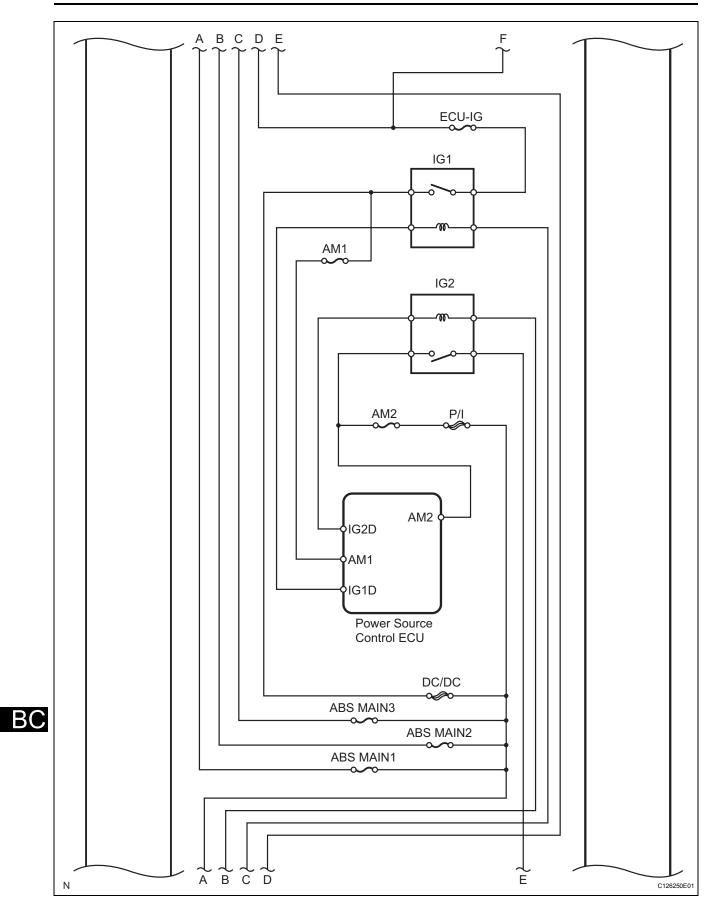
BRAKE CONTROL – ELECTRONICALLY CONTROLLED BRAKE SYSTEM

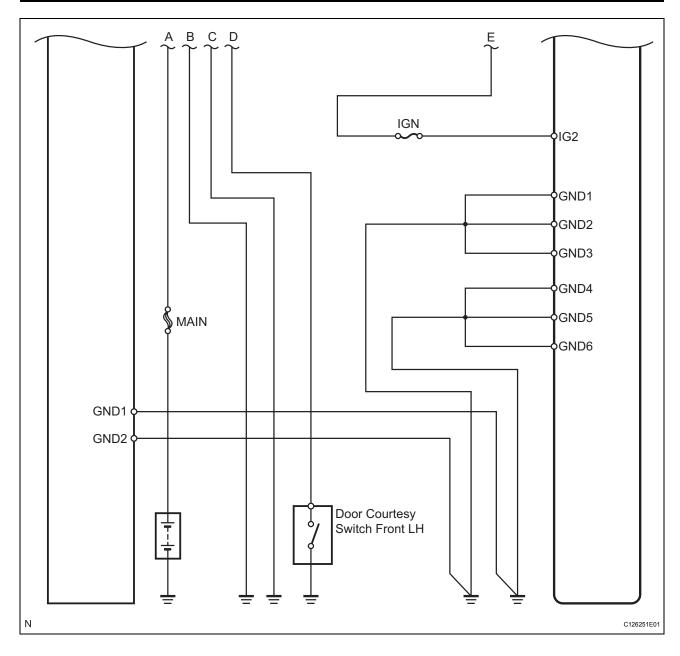
DTC No.	Detailed Code	DTC Detection Condition	Trouble Area
C1242/42	88	Voltage is applied to IG1 terminal, but not applied to IG2 terminal for at least 4 sec.	 ABS NO. 2 relay Harness and connector Skid control power supply circuit Brake control power supply assembly Hybrid control system

BC

WIRING DIAGRAM

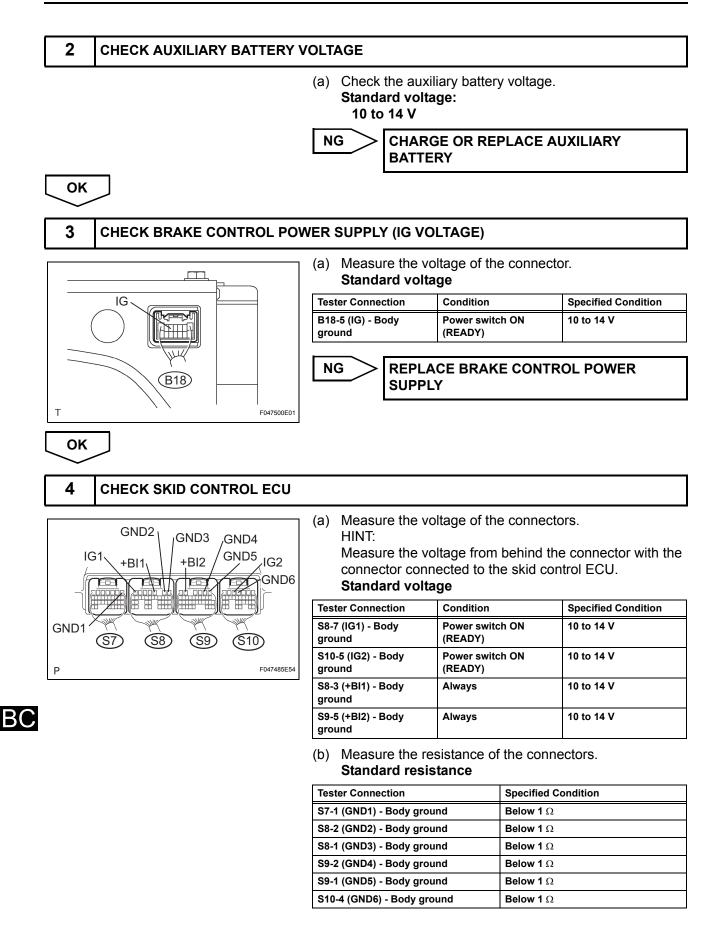






INSPECTION PROCEDURE

1	CHECK DTC (HYBRID CON	TROL SYSTEM)	
		(a) Check that hybrid Result	control system DTCs are output.
		Result	Proceed to
		DTC is not output	A
		DTC is output	В





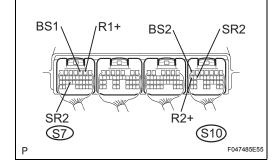


REPAIR OR REPLACE HARNESS AND CONNECTOR

ΟΚ

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CHECK SKID CONTROL ECU (BS1, R1+, SR1, BS2, R2+, DSR2 VOLTAGE)



(a) Measure the voltage of the connectors. HINT: Measure the voltage from behind the connector with the

connector connected to the skid control ECU. Standard voltage

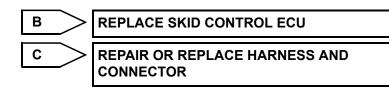
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Tester Connection	Condition	Specified Condition
S7-2 (R1+) - Body ground	Power switch ON (READY)	8 to 13 V
S10-17 (R2+) - Body ground	Power switch ON (READY)	8 to 13 V
S7-12 (SR1) - Body ground	Power switch ON (READY)	Below 1.5 V
S10-15 (SR2) - Body ground	Power switch ON (READY)	Below 1.5 V
S7-3 (BS1) - Body ground	Power switch ON (READY)	10 to 14 V
S10-7 (BS2) - Body ground	Power switch ON (READY)	10 to 14 V

Result

В

Result	Proceed to
All OK	A
NG (R1+, R2+)	В
NG (SR1, SR2, BS1, BS2)	С



Α

6

RECONFIRM DTC

- (a) Clear the DTCs (see page BC-38).
- (b) Turn the power switch ON (READY).
- (c) Check the same DTCs are recorded (see page BC-38). Result

Result	Proceed to
DTC is not output	A
DTC is output	В

REPLACE SKID CONTROL ECU

BC

BC-94



END (DTC MAY BE STORED DUE TO TEMPORARY POWER SOURCE VOLTAGE DROP)

