Short to B+ in CAN Bus Line

DESCRIPTION

A short to +B is suspected in the CAN bus line when there is continuity between terminals 16 (BAT) and 6 (CANH) or terminals 16 (BAT) and 14 (CANL) of the DLC3.

Symptom	Trouble Area
There is continuity between terminals 16 (BAT) and 6 (CANH) or 16 (BAT) and 14 (CANL) of the DLC3.	 Short to +B in CAN bus line ECM Skid control ECU Steering angle sensor Yaw rate sensor

WIRING DIAGRAM











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

Tester Connection	Condition	Specified Value
D4-6 (CANH) - D4-16 (BAT)	Ignition switch OFF Step light owitch	1 MO or more
D4-14 (CANL) - D4-16 (BAT)	OFF	
ок >	Go to step 14	

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8

DLC3:

CONNECT CONNECTOR

J8

(D4)

5

6

7

2

9 10 11 12 13 14 15

3 4

CANL -

G031933E11

BAT G026206E58

CANH

8

16

(a) Reconnect the steering angle sensor sub bus line connector (J8) to the CAN J/C.

NEXT

9

CHECK CAN BUS LINES FOR SHORT TO +B (ECM MAIN BUS LINE)

(a) Disconnect the ECM sub bus line connector (E7).



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

Standard resistance

Tester Connection	Condition	Specified Value		
D4-6 (CANH) - D4-16 (BAT)	•lgnition switch OFF •Stop light switch OFF	4 MO as mara		
D4-14 (CANL) - D4-16 (BAT)		1 MS2 or more		
	EECM			

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REPAIR OR REPLACE ECM MAIN BUS LINE OR CONNECTOR (CAN-H,CAN-L)



REPAIR OR REPLACE SKID CONTROL ECU BRANCH LINE OR CONNECTOR (CAN-H,CAN-L)



(a) Reconnect the yaw rate sensor sub bus line connector (J7) to the CAN J/C.







REPAIR OR REPLACE YAW RATE SENSOR SUB BUS LINE CONNECTOR (CAN-H,CAN-L)

14 CONNECT CONNECTOR

(a) Reconnect the steering angle sensor sub bus line connector (J8) to the CAN J/C.

NEXT

15 CHECK CAN BUS LINES FOR SHORT TO +B (STEERING SENSOR SUB BUS LINE)



- (a) Disconnect the steering angle sensor connector (S9).(b) Measure the resistance according to the value(s) in the
 - table below.

Standard resistance

Tester Connection	Condition	Specified Value			
D4-6 (CANH) - D4-16 (BAT)	Ignition switch OFF Stop light switch OFF	1 MΩ or more			
D4-14 (CANL) - D4-16 (BAT)					
OK REPLACE STEERING ANGLE SENSOR					

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REPAIR OR REPLACE STEERING ANGLE SENSOR BRANCH LINE OR CONNECTOR (CAN-H,CAN-L)