## Short in CAN Bus Lines

### DESCRIPTION

The CAN bus lines are considered to be shorted when the resistance between terminals 6 (CANH) and 14 (CANL) of the DLC3 is below 54  $\Omega$ .

Symptom	Trouble Area
Resistance between terminals 6(CANH) and 14(CANL) of the DLC3 is below 54 $\Omega$ .	<ul> <li>Short in CAN bus lines</li> <li>Skid control ECU</li> <li>Steering angle sensor</li> <li>Yaw rate sensor</li> <li>ECM</li> <li>CAN junction connector</li> </ul>

## WIRING DIAGRAM



CA



CAN J/C.

NEXT





CA-35







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

### Standard resistance

Condition	Specified Value				
<ul> <li>Ignition switch OFF</li> <li>Stop light switch OFF</li> </ul>	<b>54 to 69</b> Ω				
OK REPLACE MASTER CYLINDER SOLENOID					
	Condition <ul> <li>Ignition switch OFF</li> <li>Stop light switch OFF</li> </ul> CE MASTER CYLIN				

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NEXT

REPAIR OR REPLACE SKID CONTROL ECU WITH ACTUATOR SUB BUS LINE OR CONNECTOR (CAN-H, CAN-L)



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

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(a) Disconnect the yaw rate sensor connector (Y1).(b) Measure the resistance according to the value(s) in the table below.

### Standard resistance

	Tester Connection	Condition	Specified Value
	D4-6 (CANH) - D4-14 (CANL)	<ul> <li>Ignition switch OFF</li> <li>Stop light switch OFF</li> </ul>	<b>54 to 69</b> Ω
006557	OK REPLA	CE YAW RATE SEN	SOR

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

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



# 15 CHECK CAN BUS LINES FOR SHORT CIRCUIT (STEERING ANGLE SENSOR SUB BUS LINE)



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

### **16** CONNECT CONNECTOR

(a) Reconnect the ECM main bus line connector (J10) to the CAN J/C.

NEXT

# 17 CHECK CAN BUS LINES FOR SHORT CIRCUIT (ECM MAIN BUS LINE)



## (a) Disconnect the ECM 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) - D4-14 (CANL)	<ul> <li>Ignition switch OFF</li> <li>Stop light switch OFF</li> </ul>	<b>108 to 132</b> Ω				

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

CA