

B1B44:14	Right Rear Outer Sensor: Circuit Short To Ground Or Open	A continuous and on-demand DTC that sets when any of the right rear outer parking aid sensor circuits are open or the sensor signal line is shorted to ground.
B1B46:14	Right Rear Inner Sensor: Circuit Short To Ground Or Open	A continuous and on-demand DTC that sets when any of the right rear inner parking aid sensor circuits are open or the sensor signal line is shorted to ground.
B1B48:14	Left Rear Outer Sensor: Circuit Short To Ground Or Open	A continuous and on-demand DTC that sets when any of the left rear outer parking aid sensor circuits are open or the sensor signal line is shorted to ground.
B1B50:14	Left Rear Inner Sensor: Circuit Short To Ground Or Open	A continuous and on-demand DTC that sets when any of the left rear inner parking aid sensor circuits are open or the sensor signal line is shorted to ground.

Possible Sources

- Wiring, terminals or connectors
- Rear parking aid sensor
- PAM (integral to the BCM)



NOTE: Before disconnecting the PAM or any of the parking aid sensors, verify the connectors are properly seated and latched.

DIAGNOSIS AND TESTING > PARKING AID > PINPOINT TEST(S) > PINPOINT TEST C : B1B44:14, B1B46:14, B1B48:14, B1B50:14 > PINPOINT TEST C : B1B44:14, B1B46:14, B1B48:14, B1B50:14

C1 RETRIEVE THE DIAGNOSTIC TROUBLE CODES (DTCS) FROM THE PAM (PARKING ASSIST CONTROL MODULE) SELF-TEST

Using a diagnostic scan tool, perform the PAM self-test.

Check the PAM DTCs (diagnostic trouble codes).

Are multiple rear parking aid sensor DTCs (diagnostic trouble codes) recorded?

Yes	GO to C2
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No	For DTC B1B44:14, B1B46:14, B1B48:14 or B1B50:14, GO to C3 For all other DTCs (diagnostic trouble codes), REFER to the PAM DTC Chart .
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C2 CHECK THE REAR BUMPER WIRING HARNESS

Ignition OFF.

Inspect the rear bumper wiring harness for opens, shorts, grounds, or corrosion.

Is the rear bumper wiring harness OK?

Yes	GO to C3
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No	REPAIR or INSTALL a new rear bumper wiring harness.
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C3 CHECK THE REAR PARKING AID SENSOR CIRCUITRY FOR OPENS

Disconnect: suspect parking aid sensor.

Disconnect: BCM C2280D .

For DTC B1B44:14, measure:

Positive Lead	Measurement / Action	Negative Lead
C2280D-26	Ω	C4011-1
C2280D-7	Ω	C4011-2
C2280D-27	Ω	C4011-3

For DTC B1B46:14, measure:

Positive Lead	Measurement / Action	Negative Lead
C2280D-26	Ω	C4012-1
C2280D-8	Ω	C4012-2
C2280D-27	Ω	C4012-3

For DTC B1B48:14, measure:

Positive Lead	Measurement / Action	Negative Lead
C2280D-26	Ω	C4009-1
C2280D-23	Ω	C4009-2
C2280D-27	Ω	C4009-3

For DTC B1B50:14, measure:

Positive Lead	Measurement / Action	Negative Lead
C2280D-26	Ω	C4010-1
C2280D-24	Ω	C4010-2
C2280D-27	Ω	C4010-3

Are the resistances of the suspect sensor circuits less than 3 ohms?

Yes	GO to C4
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No	REPAIR the circuit in question.
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C4 CHECK THE REAR PARKING AID SENSOR CIRCUITRY FOR SHORTS TO GROUND

For DTC B1B44:14, measure:

Positive Lead	Measurement / Action	Negative Lead
C4011-2	Ω	Ground

For DTC B1B46:14, measure:

Positive Lead	Measurement / Action	Negative Lead
C4012-2	Ω	Ground

For DTC B1B48:14, measure:

Positive Lead	Measurement / Action	Negative Lead
C4009-2	Ω	Ground

For DTC B1B50:14, measure:

Positive Lead	Measurement / Action	Negative Lead
C4010-2	Ω	Ground

Is the resistance greater than 10, 000 ohms for the sensor circuit in question?

Yes	If all of the parking aid sensors recorded DTCs, GO to C5 If one or more (but not all) parking aid sensor(s) recorded DTCs, INSTALL a new sensor(s) for the one(s) in question. REFER to: Rear Parking Aid Sensor .
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No	REPAIR the circuit in question.
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C5 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION