

: DTC (DIAGNOSTIC TROUBLE CODE) B129C:12, DTC (DIAGNOSTIC TROUBLE CODE) B129D:12

Refer to Audio System/Navigation - With SYNC Without Touchscreen for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Parking Aid - System Operation and Component Description .

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B129C:12	Left Front Side Sensor: Circuit Short To Battery	A continuous and on-demand DTC that sets in the PAM when the left front active park assist sensor signal circuit is shorted to battery voltage.
B129D:12	Right Front Side Sensor: Circuit Short To Battery	A continuous and on-demand DTC that sets in the PAM when the right front active park assist sensor signal circuit is shorted to battery voltage.

Possible Causes

- Wiring, terminals or connectors
- Active park assist sensor
- PAM (integral to the BCM)



NOTE: Before disconnecting any of the active park assist sensors, verify the connectors are properly seated and latched.

DIAGNOSIS AND TESTING > PARKING AID > PINPOINT TEST(S) > PINPOINT TEST A : DTC (DIAGNOSTIC TROUBLE CODE) B129C:12, DTC (DIAGNOSTIC TROUBLE CODE) B129D:12 > PINPOINT TEST A : DTC (DIAGNOSTIC TROUBLE CODE) B129C:12, DTC (DIAGNOSTIC TROUBLE CODE) B129D:12



NOTE: Use the correct probe adapter(s) when making measurements. Failure to use the correct probe adapter(s) may cause damage to the connector. Use only Rotunda Flex Probes (NUD105-R025D)

A1 CHECK 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 Diagnostic Trouble Codes (DTCs) from the self-test.

Are LH and RH front active park assist sensor Diagnostic Trouble Codes (DTCs) recorded?

Yes	GO to A2
No	For DTC B129C:12 or DTC B129D:12, GO to A3 For all other PAM Diagnostic Trouble Codes (DTCs), REFER to: Parking Aid .

A2 CHECK THE ENGINE COMPARTMENT WIRING HARNESS

Inspect the engine compartment wiring harness for opens, shorts, grounds or corrosion.

Is the engine compartment wiring harness OK?

Yes	GO to A3
No	REPAIR or INSTALL a new engine compartment wiring harness.

A3 CHECK THE SENSOR SIGNAL RETURN CIRCUIT FOR A SHORT TO VOLTAGE

Ignition OFF.

Disconnect suspect active park assist sensor(s) (DTC B129C:12) C1428 or (DTC B129D:12) C1430 .

Disconnect BCM C2280F .

Ignition ON.

Measure:

DTC B129C:12

Positive Lead	Measurement / Action	Negative Lead
C1428-2		Ground

DTC B129D:12

Positive Lead	Measurement / Action	Negative Lead
C1430-2		Ground

Is any voltage present?

Yes	REPAIR the circuit.
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No	GO to A4
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A4 CHECK THE SENSOR VOLTAGE SUPPLY AND SIGNAL RETURN CIRCUITS FOR A SHORT TOGETHER

Ignition OFF.

Measure:

DTC B129C:12

Positive Lead	Measurement / Action	Negative Lead
C1428-2	Ω	C1428-1

DTC B129D:12

Positive Lead	Measurement / Action	Negative Lead
C1430-2	Ω	C1430-1

Is the resistance greater than 10, 000 ohms?

Yes	GO to A5
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No	REPAIR the affected circuits.
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A5 CHECK THE ACTIVE PARK ASSIST SENSOR

Connect BCM C2280F .

Ignition ON.

Using a diagnostic scan tool, clear the PAM Diagnostic Trouble Codes (DTCs) and repeat the self-test.

Is DTC B129C:12 or B129D:12 still present?

Yes	GO to A6
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No	INSTALL a new active park assist sensor for the one in question. REFER to: Front Active Park Assist Sensors .
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A6 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

Ignition OFF.