

INTRUSION SENSOR

Refer to REMOTE KEYLESS ENTRY AND ALARM for schematic and connector information.

Normal Operations and Fault Conditions

REFER to: Perimeter Anti-Theft Alarm - System Operation and Component Description .

BCM DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B109F:01	Intrusion Sensor Module: General Electrical Failure	Sets when the BCM detects a short to ground from the intrusion sensor LIN circuit.
B109F:02	Intrusion Sensor Module: General Signal Failure	Sets when the BCM detects a communication fault with the intrusion sensor.
B109F:08	Intrusion Sensor Module: Bus Signal / Message Failure	Sets when the BCM detects a communication fault with the intrusion sensor.
B109F:97	Intrusion Sensor Module: Component or System Operation Obstructed or Blocked	Sets when the intrusion sensor communicates to the BCM that it detects the motion sensor is blocked.
B109F:9A	Intrusion Sensor Module: Component or System Operating Conditions	Sets when the BCM detects a communication fault with the intrusion sensor.

Possible Sources

- Fuse
- Wiring, terminals or connectors
- Intrusion sensor
- BCM

Visual Inspection and Diagnostic Pre-checks

- Inspect the BCM fuse 11 (5A)

DIAGNOSIS AND TESTING > PERIMETER ANTI-THEFT ALARM > PINPOINT TESTS > PINPOINT TEST B : THE ALARM SYSTEM DOES NOT ACTIVATE FROM THE INTRUSION SENSOR > PINPOINT TEST B : THE ALARM SYSTEM DOES NOT ACTIVATE FROM THE INTRUSION SENSOR



NOTE: Use the correct probe adapter(s) when making measurements. Failure to use the correct probe adapter(s) may damage the connector.

B1 CHECK FOR VOLTAGE TO THE INTRUSION SENSOR

Ignition OFF.

Disconnect Intrusion Sensor C9800 .

Measure:

Positive Lead	Measurement / Action	Negative Lead
C9800-1		Ground

Is the voltage greater than 11 volts?

Yes	GO to B3
No	VERIFY the BCM fuse 11 (5A) is OK. If OK, GO to B2 If not OK, REFER to the SYSTEM WIRING DIAGRAMS article to identify the possible cause of the circuit short.

B2 CHECK THE INTRUSION SENSOR VOLTAGE SUPPLY CIRCUIT FOR AN OPEN

Disconnect BCM C2280C .

Measure:

Positive Lead	Measurement / Action	Negative Lead
C9800-1	Ω	C2280C-15

Is the resistance less than 3 ohms?

Yes	GO to B7
No	REPAIR the circuit.

B3 CHECK THE INTRUSION SENSOR GROUND CIRCUIT FOR AN OPEN

Measure:

Positive Lead	Measurement / Action	Negative Lead
C9800-1		C9800-3

Is the voltage greater than 11 volts?

Yes	GO to B4
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No	REPAIR the circuit.
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B4 CHECK THE INTRUSION SENSOR LIN (LOCAL INTERCONNECT NETWORK) CIRCUIT FOR A SHORT TO VOLTAGE

Disconnect BCM C2280E .

Ignition ON.

Measure:

Positive Lead	Measurement / Action	Negative Lead
C9800-2		Ground

Is any voltage present?

Yes	REPAIR the circuit.
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No	GO to B5
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B5 CHECK THE INTRUSION SENSOR LIN (LOCAL INTERCONNECT NETWORK) CIRCUIT FOR A SHORT TO GROUND

Ignition OFF.

Measure:

Positive Lead	Measurement / Action	Negative Lead
C9800-2	Ω	Ground

Is the resistance greater than 10, 000 ohms?

Yes	GO to B6
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No	REPAIR the circuit.
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B6 CHECK THE INTRUSION SENSOR LIN (LOCAL INTERCONNECT NETWORK) CIRCUIT FOR AN OPEN

Measure:

Positive Lead	Measurement / Action	Negative Lead
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