

- Ignition ON.
- Using a diagnostic scan tool, view the BCM Parameter Identifications (PIDs).
- Using a diagnostic scan tool, monitor the BCM HOOD_SW PID.
- Disconnect: Hood Ajar Switch [C127](#).

Does the PID read AJAR when the switch is disconnected?

Yes	INSTALL a new hood latch. REFER to: Hood Latch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).
No	GO to A2

A2 CHECK THE HOOD AJAR SWITCH INPUT CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.
- Disconnect: BCM [C2280F](#).
- Measure:



Positive Lead	Measurement / Action	Negative Lead
C127-2	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to A3
No	REPAIR the circuit.

A3 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all BCM connectors.
- Repair:
 - corrosion (install new connector or terminals â€“ clean module pins)
 - damaged or bent pins â€“ install new terminals/pins
 - pushed-out pins â€“ install new pins as necessary
- Reconnect all BCM connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS for any applicable service articles: TSB, GSB, SSM, or FSA. If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new BCM. REFER to: Body Control Module (BCM) (419-10 Multifunction Electronic Modules, Removal and Installation).
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.

PINPOINT TEST B : THE ALARM SYSTEM DOES NOT ARM OR NO TURN SIGNALS FLASH CONFIRMATION

Refer to Wiring Diagrams Cell [95](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Perimeter Anti-Theft Alarm - System Operation and Component Description (419-01A Perimeter Anti-Theft Alarm, Description and Operation).

Possible Sources

- Door ajar switch input
- Hood ajar switch input
- Liftgate ajar switch output
- Turn signal output
- RKE transmitter concern
- BCM

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

B1 CHECK FOR BCM (BODY CONTROL MODULE) DTC (DIAGNOSTIC TROUBLE CODE)

NOTE: DTC B1305:01 or B1305:15 sets if the hood is open. Make sure the hood is closed prior to running the self-test.

- Ignition ON.
- Using a diagnostic scan tool, perform the BCM self-test.

Is DTC B1305:01 or B1305:15 present?

Yes	GO to Pinpoint Test C
No	GO to B2

B2 CHECK THE DOOR AND LIFTGATE AJAR SWITCH INPUTS

- Close all the doors and liftgate.
- Observe the IPC.

Does the IPC indicate a door or the liftgate is ajar?

Yes	REFER to: Instrumentation, Message Center and Warning Chimes (413-01 Instrumentation, Message Center and Warning Chimes, Diagnosis and Testing).
No	GO to B3

B3 VERIFY THE HAZARD FLASHER LAMP OPERATION

- Ignition OFF.
- Activate the hazard flasher lamp function and observe the turn signals.

Do all the turn signals flash on and off?

Yes	GO to B4
No	DIAGNOSE the inoperative turn signals. REFER to: Turn Signal and Hazard Lamps (417-01 Exterior Lighting, Diagnosis and Testing).

B4 CHECK THE RKE (REMOTE KEYLESS ENTRY) TRANSMITTER FUNCTION

- Using the RKE transmitter, lock and unlock the doors.

Do the doors lock and unlock?

Yes	GO to B5
No	DIAGNOSE the inoperative RKE transmitter. REFER to: Locks, Latches and Entry Systems (501-14 Handles, Locks, Latches and Entry Systems, Diagnosis and Testing).

B5 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all the BCM connectors.
- Repair:
 - corrosion (install new connector or terminals â€“ clean module pins)
 - damaged or bent pins â€“ install new terminals/pins
 - pushed-out pins â€“ install new pins as necessary
- Reconnect the BCM connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS for any applicable service articles: TSB, GSB, SSM, or FSA. If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new BCM. REFER to: Body Control Module (BCM) (419-10 Multifunction Electronic Modules, Removal and Installation).
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.

PINPOINT TEST C : B1305:01, B1305:15

Refer to Wiring Diagrams Cell [117](#) for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: Perimeter Anti-Theft Alarm - System Operation and Component Description (419-01A Perimeter Anti-Theft Alarm, Description and Operation).

DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Condition
BCM B1305:01	Hood Switch: General Electrical Failure	Sets when the BCM detects an open from the hood ajar switch input during a self-test. This DTC also sets if the self-test is carried out with the hood open.
BCM B1305:15	Hood Switch: Circuit Short To Battery Or Open	Sets when the BCM detects a short to battery or open from the hood ajar switch input during a self-test.

Possible Sources

- Wiring, terminals or connectors
- Hood latch
- BCM

Visual Inspection and Pre-checks

- Inspect the hood latch for damage.

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

C1 CHECK THE HOOD AJAR SWITCH

- Disconnect: Hood Ajar Switch [C127](#).
- Ignition ON.
- Connect:

HOOD AJAR SWITCH

Positive Lead	Measurement / Action	Negative Lead
C127-2		C127-1

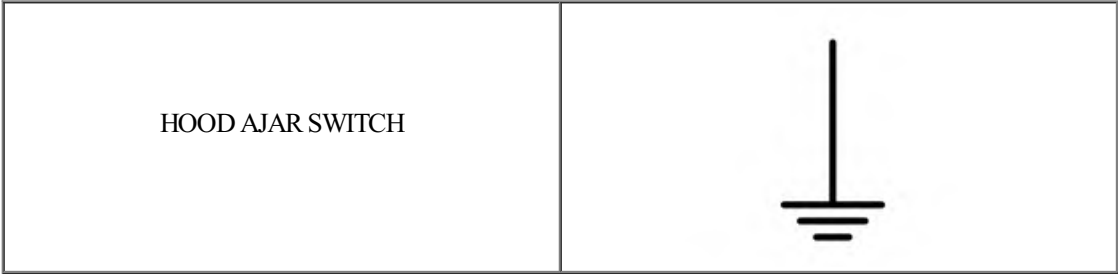
- Using a diagnostic scan tool, perform the BCM self-test.

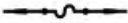
Is DTC B1305:01 or B1305:15 still present?

Yes	REMOVE the fused jumper wire. GO to C2
No	REMOVE the fused jumper wire. INSTALL a new hood latch. REFER to: Hood Latch (501-14 Handles, Locks, Latches and Entry Systems, Removal and Installation).

C2 CHECK THE HOOD AJAR SWITCH GROUND CIRCUIT FOR AN OPEN

- Connect a fused jumper wire:



Positive Lead	Measurement / Action	Negative Lead
C127-2		Ground

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

Is DTC B1305:01 still present?

Yes	REMOVE the fused jumper wire. GO to C3
No	REMOVE the fused jumper wire. REPAIR the circuit.

C3 CHECK THE HOOD AJAR SWITCH INPUT CIRCUIT FOR AN OPEN

- Ignition OFF.
- Disconnect: BCM [C2280F](#).
- Measure:

HOOD AJAR SWITCH	BODY CONTROL MODULE (BCM)
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Positive Lead	Measurement / Action	Negative Lead
C127-2	Ω	C2280F-14

Is the resistance less than 3 ohms?

Yes	GO to C4
No	REPAIR the circuit.

C4 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Disconnect and inspect all the BCM connectors.
- Repair:
 - corrosion (install new connector or terminals “clean module pins)
 - damaged or bent pins “install new terminals/pins
 - pushed-out pins “install new pins as necessary
- Reconnect the BCM connectors. Make sure they seat and latch correctly.
- Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS for any applicable service articles: TSB, GSB, SSM, or FSA. If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new BCM. REFER to: Body Control Module (BCM) (419-10 Multifunction Electronic Modules, Removal and Installation).
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.

419-01B Passive Anti-Theft System (PATS)

Description and Operation