

Snow Plow Package

Inspection and Verification

1. Verify the customer concern by operating the heated seats and snowplow.
2. Verify BJB fuse is ok.
3. If an obvious cause for an observed or reported concern is found, correct the cause (if possible) before proceeding.
4. Using the diagnostic scan tool, retrieve all Diagnostic Trouble Codes (DTCs). Refer to the appropriate DTC Chart.

DTC Charts

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices.

REFER to: [Diagnostic Methods](#) (100-00 General Information, Description and Operation).

BCM DTC Chart

DTC	Description	Action
B14B6:12	Snow Plow Output: Circuit Short To Battery	GO to Pinpoint Test A
B14B6:14	Snow Plow Output: Circuit Short To Ground or Open	GO to Pinpoint Test A
All Other DTCs	—	REFER to: Body Control Module (BCM) (419-10 Multifunction Electronic Modules) .

FCIM DTC Chart

DTC	Description	Action
All DTCs	—	Without touchscreen, REFER to: Information and Entertainment System (415-00 Information and Entertainment System - General Information - Vehicles With: SYNC Without Touchscreen) . , With touchscreen, REFER to: Information and Entertainment System (415-00 Information and Entertainment System - General Information - Vehicles With: Touchscreen Display) . , With Sony Audio, REFER to: Information and Entertainment System (415-00 Information and Entertainment System - General Information - Vehicles With: Sony Audio System) .

Symptom Chart

Symptom	Possible Sources	Action
Heated Seats are inoperative	- Rear heated seats relay - Heated seat module	REFER to: Rear Seats (501-10 Rear Seats) .
Snowplow indicator does not illuminate	- Snowplow switch - FCIM	- Without touchscreen, REFER to: Information and Entertainment System (415-00 Information and Entertainment System - General Information - Vehicles With: SYNC Without Touchscreen) . , With touchscreen, REFER to: Information and Entertainment System (415-00

		Information and Entertainment System - General Information - Vehicles With: Touchscreen Display) . , With Sony Audio, REFER to: Information and Entertainment System (415-00 Information and Entertainment System - General Information - Vehicles With: Sony Audio System) .
• No power to customer access blunt cut circuit	• Snowplow switch • FCIM • Snowplow relay or fuse	• GO to Pinpoint Test A
• The customer access blunt cut circuit is always powered.	• Wiring, terminals or connectors • Snowplow relay or fuse	• GO to Pinpoint Test A

Pinpoint Tests

B14B6:12, B14B6:14

Refer to Wiring Diagrams Cell 140 for schematic and connector information.

Normal Operation and Fault Conditions

REFER to: [Snow Plow Package](#) (419-10 Multifunction Electronic Modules, Description and Operation).

Diagnostic Trouble Code (DTC) Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
B14B6:12	Snow Plow Output: Circuit Short To Battery	This DTC sets in the BCM if the voltage is detected on the rear heated seats/customer access relay control circuit.
B14B6:14	Snow Plow Output: Circuit Short To Ground or Open	This DTC sets in the BCM if no current draw is detected on the rear heated seats/customer access relay control circuit.

Possible Sources

- BJB fuse
- Wiring, terminals or connectors
- BJB
- BCM

PINPOINT TEST A : B14B6:12, B14B6:14

A1 VERIFY BJB (BATTERY JUNCTION BOX) FUSE

- VERIFY BJB fuse 104 (15A) is OK.

Is fuse OK?

Yes	GO to A2
No	REFER to the Wiring Diagrams manual to identify the possible causes of the circuit short.

A2 CHECK THE REAR HEATED SEATS/CUSTOMER ACCESS RELAY CONTROL CIRCUIT FOR VOLTAGE

- Disconnect BJB C1035C.

Is voltage greater than 11 volts?

Yes	GO to A3
No	INSTALL a new BJB.

A3 CHECK THE REAR HEATED SEATS/CUSTOMER ACCESS RELAY CONTROL CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition OFF.
- Disconnect BCM C2280F.
- Ignition ON.

Is any voltage present?

Yes	REPAIR the circuit.
No	GO to A4

A4 CHECK THE REAR HEATED SEATS/CUSTOMER ACCESS RELAY CONTROL CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.

Is the resistance greater than 10,000 ohms?

Yes	GO to A5
No	REPAIR the circuit.

A5 CHECK THE REAR HEATED SEATS/CUSTOMER ACCESS RELAY CONTROL CIRCUIT FOR AN OPEN

Is the resistance less than 3 ohms?

Yes	GO to A6
No	REPAIR the circuit.

A6 CHECK FOR CORRECT BCM (BODY CONTROL MODULE) OPERATION

- Ignition OFF.
- Disconnect and inspect all 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,  Click here to access Guided Routine (BCM).
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.