

Rear Seats

Symptom Chart(s)

Symptom Chart: Rear Seats

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).

Symptom Chart

Condition	Possible Sources	Actions
Both heated rear seats are inoperative	Refer to the Pinpoint Test	GO to Pinpoint Test A
The left heated rear seat is inoperative	Refer to the Pinpoint Test	GO to Pinpoint Test B
The right heated rear seat is inoperative	Refer to the Pinpoint Test	GO to Pinpoint Test C
The left heated rear seat heats correctly but the indicator does not illuminate when activated	Refer to the Pinpoint Test	GO to Pinpoint Test D
The right heated rear seat heats correctly but the indicator does not illuminate when activated	Refer to the Pinpoint Test	GO to Pinpoint Test E
The left heated rear seat indicator is always on	- Wiring terminals or connectors - Heated seat module	- DISCONNECT the heated rear seat module electrical connector. - If the left heated rear seat indicator turns off when the heated rear seat module is disconnected, INSTALL a new heated rear seat module. REFER to: Heated Rear Seat Module - Crew Cab (501-10B Rear Seats, Removal and Installation). - If the left heated rear seat indicator remains on when the heated rear seat module is disconnected, REPAIR the left heated rear seat module indicator circuits for a short to voltage.
The right heated rear seat indicator is always on	- Wiring terminals or connectors - Heated seat module	- DISCONNECT the heated rear seat module electrical connector. - If the right heated rear seat indicator turns off when the heated rear seat module is disconnected, INSTALL a new heated rear seat module. REFER to: Heated Rear Seat Module - Crew Cab (501-10B Rear Seats, Removal and Installation). - If the right heated rear seat indicator remains on when the heated rear seat module is disconnected, REPAIR the right heated rear seat module indicator circuits for a short to voltage.

Pinpoint Tests

Both Heated Rear Seats are Inoperative

Refer to Wiring Diagrams Cell [119](#) for schematic and connector information.

Normal Operation and Fault Conditions

When the LH or RH heated rear seat control switch is activated with the ignition ON, a momentary ground signal is supplied to the heated seat module to operate the system. The system cycles through high heat mode, low heat mode or OFF, each time the switch is pressed. The heated seat module supplies voltage to the LH or RH rear seat cushion and backrest heater mats, which are connected in series. Seat temperature is maintained by the heated seat module using a sensor contained within each cushion heater mat. The heated seat module supplies a reference voltage to the temperature sensor and monitors the return signal from the temperature sensor for controlling current flow to the heater mats. The heated seat module remains ON, heating the seat and maintaining temperature until switched OFF or the ignition voltage is switched OFF.

Possible Sources

- Fuse(s)
- Wiring, terminals or connectors
- Heated seat module
- BCM

Visual Inspection and Diagnostic Pre-checks

- Verify BCM fuse 36 (15A) is OK.
- Verify BJB fuse 46 (20A) is OK.

PINPOINT TEST A : BOTH HEATED REAR SEATS ARE INOPERATIVE

A1 CHECK FOR VOLTAGE TO THE HEATED REAR SEAT MODULE

- Ignition OFF.
- Disconnect Heated Rear Seat Module [C3304B](#).
- Ignition ON.
- Measure:

HEATED SEAT MODULE, REAR



Positive Lead	Measurement / Action	Negative Lead
C3304B-1		Ground

Is the voltage greater than 11 volts?

Yes	GO to A2
No	VERIFY BJB fuse 46 (20A) is OK. If OK, REPAIR the circuit. If not OK, REFER to the Wiring Diagrams manual to identify the possible causes of the circuit short.

A2 CHECK FOR IGNITION VOLTAGE TO THE HEATED REAR SEAT MODULE

- Measure:

HEATED SEAT MODULE, REAR	
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Positive Lead	Measurement / Action	Negative Lead
C3304B-2		Ground

Is the voltage greater than 11 volts?

Yes	GO to A3
No	VERIFY BCM fuse 36 (15A) is OK. If OK, REPAIR the circuit. If not OK, REFER to the Wiring Diagrams manual to identify the possible causes of the circuit short.

A3 CHECK THE HEATED REAR SEAT MODULE GROUND CIRCUIT FOR AN OPEN

- Ignition OFF.
- Measure:

HEATED SEAT MODULE, REAR	
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Positive Lead	Measurement / Action	Negative Lead
C3304B-5	Ω	Ground

Is the resistance less than 3 ohms?

Yes	GO to A4
No	REPAIR the circuit.

A4 VERIFY THE HEATED REAR SEAT SWITCH IS PROVIDING A GROUND INPUT SIGNAL TO THE HEATED SEAT MODULE

- Disconnect Heated Rear Seat Module [C3304A](#) .
- While pressing and releasing the left heated rear seat switch, measure:

HEATED SEAT MODULE, REAR	
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Positive Lead	Measurement / Action	Negative Lead
C3304A-2	Ω	Ground

Is the resistance less than 3 ohms when the switch is pressed and greater than 10,000 ohms when released?

Yes	GO to A6
No	GO to A5

A5 CHECK THE HEATED REAR SEAT SWITCH GROUND CIRCUIT FOR AN OPEN

- Disconnect Heated Rear Seat Switch [C3182](#) .
- Measure:

HEATED SEAT SWITCH, REAR	
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Positive Lead	Measurement / Action	Negative Lead
C3182-8	Ω	Ground

Is the resistance less than 3 ohms?

Yes	INSTALL a new heated rear seat switch. REFER to: Heated Rear Seat Switch - Crew Cab (501-10B Rear Seats, Removal and Installation).
No	REPAIR the circuit.

A6 CHECK THE TEMPERATURE SENSOR RETURN CIRCUIT FOR AN OPEN

- Measure:

HEATED SEAT MODULE, REAR

Positive Lead	Measurement / Action	Negative Lead
C3304A-3	Ω	C3304A-12

Is the resistance between 300 and 300K ohms?

Yes	INSTALL a new heated rear seat module. REFER to: Heated Rear Seat Module - Crew Cab (501-10B Rear Seats, Removal and Installation).
No	REPAIR the circuit.

The Left Heated Rear Seat is Inoperative

Refer to Wiring Diagrams Cell [119](#) for schematic and connector information.

Normal Operation and Fault Conditions

When the LH heated rear seat control switch is activated with the ignition ON, a ground signal is supplied to the heated seat module from the switch. When commanded ON, voltage is supplied to the heated seat switch from the heated seat module to illuminate the switch indicator. The heated seat module also supplies voltage to the LH rear seat cushion and backrest heater mats, which are connected in series. Temperature is maintained by the heated seat module using a sensor contained within the cushion heater mat. The heated seat module supplies a reference voltage to the temperature sensor and monitors the return signal from the temperature sensor for controlling current flow to the heater mats. The heated seat module remains ON, heating the seat and maintaining temperature until switched OFF or the ignition voltage is switched OFF.

Possible Sources

- Wiring, terminals or connectors
- Heater mat
- Heated seat switch
- Heated seat module

PINPOINT TEST B : THE LEFT HEATED REAR SEAT IS INOPERATIVE

B1 CHECK THE HEATED SEAT SWITCH INPUT

- Ignition OFF.
- Disconnect Heated Rear Seat Module [C3304A](#).
- While pressing and releasing the left heated rear seat switch, measure:

HEATED SEAT MODULE, REAR	
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Positive Lead	Measurement / Action	Negative Lead
C3304A-2	Ω	Ground

Is the resistance less than 3 ohms when the switch is pressed and greater than 10,000 ohms when released?

Yes	GO to B3
No	GO to B2

B2 CHECK THE HEATED SEAT SWITCH CIRCUIT FOR AN OPEN OR SHORT TO GROUND

- Disconnect Heated Rear Seat Switch [C3182](#).
- Measure:

HEATED SEAT SWITCH, REAR	HEATED SEAT MODULE, REAR
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Positive Lead	Measurement / Action	Negative Lead
C3182-2	Ω	C3304A-2
C3182-2	Ω	Ground

Are the resistances less than 3 ohms between [C3182-2](#) and [C3162A-2](#), and greater than 10,000 ohms between [C3182-2](#) and ground?

Yes	INSTALL a new heated rear seat switch. REFER to: Heated Rear Seat Switch - Crew Cab (501-10B Rear Seats, Removal and Installation).
No	REPAIR the circuit.

B3 CHECK FOR VOLTAGE TO THE HEATED SEAT MODULE

- Disconnect Heated Rear Seat Module [C3304B](#).
- Measure:

HEATED SEAT MODULE, REAR	
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Positive Lead	Measurement / Action	Negative Lead
C3304B-1		Ground

Is the voltage greater than 11 volts?

Yes	GO to B4
No	REPAIR the circuit.

B4 CHECK THE HEATER CIRCUITS AND HEATER MATS FOR AN OPEN

- Measure:

HEATED SEAT MODULE, REAR	
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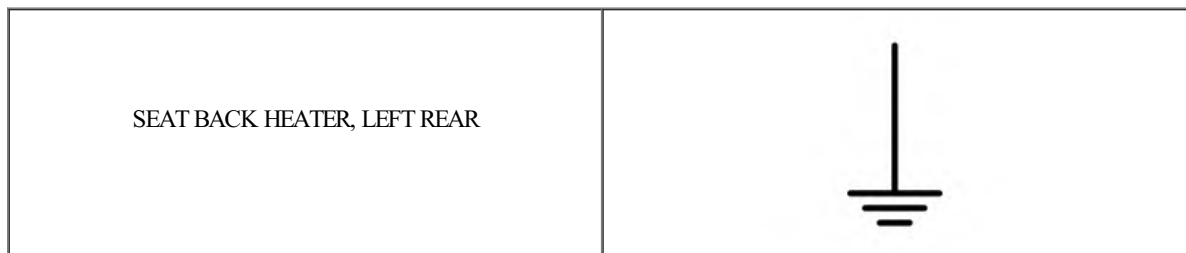
Positive Lead	Measurement / Action	Negative Lead
C3304B-4	Ω	Ground

Is the resistance between 2.5 and 4.5 ohms?

Yes	GO to B9
No	GO to B5

B5 CHECK THE HEATER MAT GROUND CIRCUIT FOR AN OPEN

- Disconnect Left Rear Backrest Heater Mat [C3168](#) .
- Measure:



Positive Lead	Measurement / Action	Negative Lead
C3168-2	Ω	Ground

Is the resistance less than 3 ohms?

Yes	GO to B6
No	REPAIR the circuit.

B6 CHECK THE HEATER CIRCUIT FOR AN OPEN OR SHORT TO GROUND

- Disconnect Left Rear Cushion Heater Mat [C3167](#) .
- Measure:

HEATED SEAT MODULE, REAR	SEAT CUSHION HEATER, LEFT REAR
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Positive Lead	Measurement / Action	Negative Lead
C3304B-4	Ω	C3167-1

- Measure:

HEATED SEAT MODULE, REAR	
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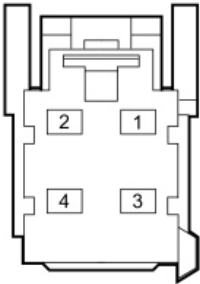
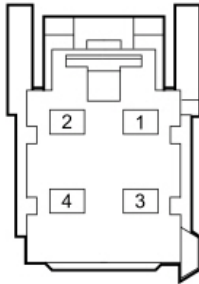
Positive Lead	Measurement / Action	Negative Lead
C3304B-4	Ω	Ground

Are the resistances less than 3 ohms between [C3304B-4](#) and [C3167-1](#), and greater than 10,000 ohms between [C3304B-4](#) and ground?

Yes	GO to B7
No	REPAIR the circuit.

B7 CHECK THE CUSHION HEATER MAT FOR AN OPEN

- Measure the **component side resistance** between:

Positive Lead	Measurement / Action	Negative Lead
 E190244 C3167-1, Component Side	Ω	 E190244 C3167-4, Component Side

Is the resistance between 1.5 and 2.5 ohms?

Yes	GO to B8
No	INSTALL a new cushion heater mat. REFER to: Seat Heater Mat Removal (501-10A Front Seats, General Procedures).

B8 CHECK FOR AN OPEN OR A SHORT TO GROUND BETWEEN THE HEATER MATS

- Measure:

SEAT CUSHION HEATER, LEFT REAR	SEAT BACK HEATER, LEFT REAR
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Positive Lead	Measurement / Action	Negative Lead
C3167-4	Ω	C3168-1

- Measure:

SEAT CUSHION HEATER, LEFT REAR	
--------------------------------	--

Positive Lead	Measurement / Action	Negative Lead
C3167-4	Ω	Ground

Are the resistances less than 3 ohms between [C3167-4](#) and [C3168-1](#), and greater than 10,000 ohms between [C3167-4](#) and ground?

Yes	INSTALL a new backrest heater mat. REFER to: Seat Heater Mat Removal (501-10A Front Seats, General Procedures).
No	REPAIR the circuit.

B9 CHECK THE TEMPERATURE SENSOR CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition ON.
- Measure:

HEATED SEAT MODULE, REAR	
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Positive Lead	Measurement / Action	Negative Lead
C3304A-3		Ground

Is any voltage present?

Yes	REPAIR the circuit.
No	GO to B10

B10 CHECK THE TEMPERATURE SENSOR CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.
- Measure:

HEATED SEAT MODULE, REAR	
--------------------------	--

Positive Lead	Measurement / Action	Negative Lead
C3304A-3	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to B11
No	REPAIR the circuit.

B11 CHECK THE TEMPERATURE SENSOR AND CIRCUITS FOR AN OPEN

- Measure:

HEATED SEAT MODULE, REAR

Positive Lead	Measurement / Action	Negative Lead
C3304A-3	Ω	C3304A-12

Is the resistance between 300 and 300K ohms?

Yes	INSTALL a new heated rear seat module. REFER to: Heated Rear Seat Module - Crew Cab (501-10B Rear Seats, Removal and Installation).
No	GO to B12

B12 CHECK THE TEMPERATURE SENSOR FOR AN OPEN WITH THE HEATER MAT DISCONNECTED

- Disconnect Left Rear Cushion Heater Mat [C3167](#) .

- Measure:

HEATED SEAT MODULE, REAR

SEAT CUSHION HEATER, LEFT REAR

Positive Lead	Measurement / Action	Negative Lead
C3304A-3	Ω	C3167-2
C3304A-12	Ω	C3167-3

Are the resistances less than 3 ohms?

Yes	INSTALL a new cushion heater mat. REFER to: Seat Heater Mat Removal (501-10A Front Seats, General Procedures).
No	REPAIR the circuit in question.

The Right Heated Rear Seat is Inoperative

Refer to Wiring Diagrams Cell [119](#) for schematic and connector information.

Normal Operation and Fault Conditions

When the RH heated rear seat control switch is activated with the ignition ON, a ground signal is supplied to the heated seat module from the switch. When commanded ON, voltage is supplied to the heated seat switch from the heated seat module to illuminate the switch indicator. The heated seat module also supplies voltage to the RH rear seat cushion and backrest heater mats, which are connected in series. Temperature is maintained by the heated seat module using a sensor contained within the cushion heater mat. The heated seat module supplies a reference voltage to the temperature sensor and monitors the return signal from the temperature sensor for controlling current flow to the heater mats. The heated seat module remains ON, heating the seat and maintaining temperature until switched OFF or the ignition voltage is switched OFF.

Possible Sources

- Wiring, terminals or connectors
- Heater mat
- Heated seat switch
- Heated seat module

PINPOINT TEST C : THE RIGHT HEATED REAR SEAT IS INOPERATIVE

C1 CHECK THE HEATED SEAT SWITCH INPUT

- Ignition OFF.
- Disconnect Heated Rear Seat Module [C3304A](#).
- While pressing and releasing the right heated rear seat switch, measure:



Positive Lead	Measurement / Action	Negative Lead
C3304A-8	Ω	Ground

Is the resistance less than 3 ohms when the switch is pressed and greater than 10,000 ohms when released?

Yes	GO to C3
No	GO to C2

C2 CHECK THE HEATED SEAT SWITCH CIRCUIT FOR AN OPEN OR SHORT TO GROUND

- Disconnect Rear Seat Heated Seat Switch [C3182](#) .
- Measure:

HEATED SEAT SWITCH, REAR	HEATED SEAT MODULE, REAR
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Positive Lead	Measurement / Action	Negative Lead
C3182-3	Ω	C3304A-8
C3182-3	Ω	Ground

Are the resistances less than 3 ohms between [C3182-3](#) and [C3304A-8](#), and greater than 10,000 ohms between [C3182-3](#) and ground?

Yes	INSTALL a new heated rear seat switch. REFER to: Heated Rear Seat Switch - Crew Cab (501-10B Rear Seats, Removal and Installation).
No	REPAIR the circuit.

C3 CHECK FOR VOLTAGE TO THE HEATED SEAT MODULE

- Disconnect Heated Rear Seat Module [C3304B](#) .
- Measure:

HEATED SEAT MODULE, REAR	
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Positive Lead	Measurement / Action	Negative Lead
C3304B-3		Ground

Is the voltage greater than 11 volts?

Yes	GO to C4
No	REPAIR the circuit.

C4 CHECK THE HEATER CIRCUITS AND HEATER MATS FOR AN OPEN

- Measure:

HEATED SEAT MODULE, REAR	
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Positive Lead	Measurement / Action	Negative Lead
C3304B-6	Ω	Ground

Is the resistance between 2.5 and 4.5 ohms?

Yes	GO to C9
No	GO to C5

C5 CHECK THE HEATER MAT GROUND CIRCUIT FOR AN OPEN

- Disconnect Right Rear Backrest Heater Mat [C3170](#) .
- Measure:

SEAT BACK HEATER, RIGHT REAR	
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Positive Lead	Measurement / Action	Negative Lead
C3170-2	Ω	Ground

Is the resistance less than 3 ohms?

Yes	GO to C6
No	REPAIR the circuit.

C6 CHECK THE HEATER CIRCUIT FOR AN OPEN OR SHORT TO GROUND

- Disconnect Right Rear Cushion Heater Mat [C3169](#) .
- Measure:

HEATED SEAT MODULE, REAR	SEAT CUSHION HEATER, RIGHT REAR
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Positive Lead	Measurement / Action	Negative Lead
C3304B-6	Ω	C3169-1

- Measure:

HEATED SEAT MODULE, REAR	
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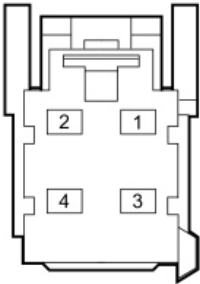
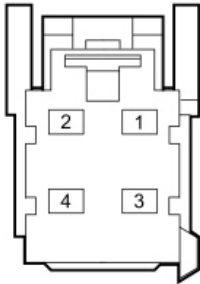
Positive Lead	Measurement / Action	Negative Lead
C3304B-6	Ω	Ground

Are the resistances less than 3 ohms between [C3304B-6](#) and [C3169-1](#), and greater than 10,000 ohms between [C3304B-6](#) and ground?

Yes	GO to C7
No	REPAIR the circuit.

C7 CHECK THE CUSHION HEATER MAT FOR AN OPEN

- Measure the **component side resistance** between:

Positive Lead	Measurement / Action	Negative Lead
 E190244 C3169-1, Component Side	Ω	 E190244 C3169-4, Component Side

Is the resistance between 1.5 and 2.5 ohms?

Yes	GO to C8
No	INSTALL a new cushion heater mat. REFER to: Seat Heater Mat Removal (501-10A Front Seats, General Procedures).

C8 CHECK FOR AN OPEN OR A SHORT TO GROUND BETWEEN THE HEATER MATS

- Measure:

SEAT CUSHION HEATER, RIGHT REAR	SEAT BACK HEATER, RIGHT REAR
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Positive Lead	Measurement / Action	Negative Lead
C3169-4	Ω	C3170-1

- Measure:

SEAT CUSHION HEATER, RIGHT REAR	
---------------------------------	--

Positive Lead	Measurement / Action	Negative Lead
C3169-4	Ω	Ground

Are the resistances less than 3 ohms between [C3169-4](#) and [C3170-1](#), and greater than 10,000 ohms between [C3169-4](#) and ground?

Yes	INSTALL a new backrest heater mat. REFER to: Seat Heater Mat Removal (501-10A Front Seats, General Procedures).
No	REPAIR the circuit.

C9 CHECK THE TEMPERATURE SENSOR CIRCUIT FOR A SHORT TO VOLTAGE

- Ignition ON.
- Measure:

HEATED SEAT MODULE, REAR	
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Positive Lead	Measurement / Action	Negative Lead
C3304A-9		Ground

Is any voltage present?

Yes	REPAIR the circuit.
No	GO to C10

C10 CHECK THE TEMPERATURE SENSOR CIRCUIT FOR A SHORT TO GROUND

- Ignition OFF.
- Measure:

HEATED SEAT MODULE, REAR	
--------------------------	--

Positive Lead	Measurement / Action	Negative Lead
C3304A-9	Ω	Ground

Is the resistance greater than 10,000 ohms?

Yes	GO to C11
No	REPAIR the circuit.

C11 CHECK THE TEMPERATURE SENSOR AND CIRCUITS FOR AN OPEN

- Measure:

HEATED SEAT MODULE, REAR

Positive Lead	Measurement / Action	Negative Lead
C3304A-9	Ω	C3304A-12

Is the resistance between 300 and 300K ohms?

Yes	INSTALL a new heated rear seat module. REFER to: Heated Rear Seat Module - Crew Cab (501-10B Rear Seats, Removal and Installation).
No	GO to C12

C12 CHECK THE TEMPERATURE SENSOR FOR AN OPEN WITH THE HEATER MAT DISCONNECTED

- Disconnect Right Rear Cushion Heater Mat [C3169](#) .
- Measure:

HEATED SEAT MODULE, REAR

SEAT CUSHION HEATER, RIGHT REAR

Positive Lead	Measurement / Action	Negative Lead
C3304A-9	Ω	C3169-2
C3304A-12	Ω	C3169-3

Are the resistances less than 3 ohms?

Yes	INSTALL a new backrest heater mat. REFER to: Seat Heater Mat Removal (501-10A Front Seats, General Procedures).
No	REPAIR the circuit in question.

The Left Heated Rear Seat Heats Correctly But The Indicator Does Not Illuminate When Activated

Refer to Wiring Diagrams Cell [119](#) for schematic and connector information.

Normal Operation and Fault Conditions

With the ignition and heated seat on, the heated seat module supplies voltage to the indicator circuit(s) to illuminate the appropriate switch indicator. The first button press puts the seat heater on low. A second button press operates the seat heater on high. The heated seat and indicator deactivates with a third button press.

Possible Sources

- Wiring, terminals or connectors
- Heated rear seat switch
- Heated rear seat module

Visual Inspection and Diagnostic Pre-checks

- Inspect for a damaged heated rear seat switch.

PINPOINT TEST D : THE LEFT HEATED REAR SEAT HEATS CORRECTLY BUT THE INDICATOR DOES NOT ILLUMINATE WHEN ACTIVATED

D1 CHECK THE HEATED SEAT INDICATOR CIRCUITS FOR A SHORT TO GROUND

- Ignition OFF.
- Disconnect Heated Rear Seat Module [C3304A](#).
- Disconnect Heated Rear Seat Switch [C3182](#).
- Measure:

HEATED SEAT MODULE, REAR	
--------------------------	--

Positive Lead	Measurement / Action	Negative Lead
C3304A-4	Ω	Ground
C3304A-5	Ω	Ground

Are the resistances greater than 10,000 ohms?

Yes	GO to D2
No	REPAIR the circuit in question.

D2 CHECK THE HEATED SEAT INDICATOR CIRCUITS FOR AN OPEN

- Measure:

HEATED SEAT MODULE, REAR	HEATED SEAT SWITCH, REAR
--------------------------	--------------------------

Positive Lead	Measurement / Action	Negative Lead
C3304A-4	Ω	C3182-6
C3304A-5	Ω	C3182-7

Are the resistances less than 3 ohms?

Yes	GO to D3
No	REPAIR the circuit in question.

D3 CHECK THE HIGH HEAT INDICATOR

- Disconnect Heated Rear Seat Module [C3304B](#) .
- Connect Heated Rear Seat Switch [C3182](#) .
- Connect:

HEATED SEAT MODULE, REAR	HEATED SEAT MODULE, REAR
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Positive Lead	Measurement / Action	Negative Lead
C3304A-5		C3304B-1

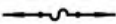
Does the indicator illuminate?

Yes	Remove the fused jumper wire. GO to D4
No	Remove the fused jumper wire. INSTALL a new heated rear seat switch. REFER to: Heated Rear Seat Switch - Crew Cab (501-10B Rear Seats, Removal and Installation).

D4 CHECK THE LOW HEAT INDICATOR

- Connect:

HEATED SEAT MODULE, REAR	HEATED SEAT MODULE, REAR
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Positive Lead	Measurement / Action	Negative Lead
C3304A-4		C3304B-1

Does the indicator illuminate?

Yes	Remove the fused jumper wire. INSTALL a new heated rear seat module. REFER to: Heated Rear Seat Module - Crew Cab (501-10B Rear Seats, Removal and Installation).
No	Remove the fused jumper wire. INSTALL a new heated rear seat switch. REFER to: Heated Rear Seat Switch - Crew Cab (501-10B Rear Seats, Removal and Installation).

The Right Heated Rear Seat Heats Correctly But The Indicator Does Not Illuminate When Activated

Refer to Wiring Diagrams Cell [119](#) for schematic and connector information.

Normal Operation and Fault Conditions

With the ignition and heated seat on, the heated seat module supplies voltage to the indicator circuit(s) to illuminate the appropriate switch indicator. The first button press puts the seat heater on low. A second button press operates the seat heater on high. The heated seat and indicator deactivates with a third button press.

Possible Sources

- Wiring, terminals or connectors
- Heated rear seat switch
- Heated rear seat module

Visual Inspection and Diagnostic Pre-checks

- Inspect for a damaged heated rear seat switch.

PINPOINT TEST E : THE RIGHT HEATED REAR SEAT HEATS CORRECTLY BUT THE INDICATOR DOES NOT ILLUMINATE WHEN ACTIVATED

E1 CHECK THE HEATED SEAT INDICATOR CIRCUITS FOR A SHORT TO GROUND

- Ignition OFF.
- Disconnect Heated Rear Seat Module [C3304A](#) .
- Disconnect Heated Rear Seat Switch [C3182](#) .
- Measure:

HEATED SEAT MODULE, REAR	
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Positive Lead	Measurement / Action	Negative Lead
C3304A-10	Ω	Ground
C3304A-11	Ω	Ground

Are the resistances greater than 10,000 ohms?

Yes	GO to E2
No	REPAIR the circuit in question.

E2 CHECK THE HEATED SEAT INDICATOR CIRCUITS FOR AN OPEN

- Measure:

HEATED SEAT MODULE, REAR	HEATED SEAT SWITCH, REAR
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Positive Lead	Measurement / Action	Negative Lead
C3304A-10	Ω	C3182-4
C3304A-11	Ω	C3182-5

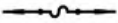
Are the resistances less than 3 ohms?

Yes	GO to E3
No	REPAIR the circuit in question.

E3 CHECK THE HIGH HEAT INDICATOR

- Disconnect Heated Rear Seat Module [C3304B](#) .
- Connect Heated Rear Seat Switch [C3182](#) .
- Connect:

HEATED SEAT MODULE, REAR	HEATED SEAT MODULE, REAR
--------------------------	--------------------------

Positive Lead	Measurement / Action	Negative Lead
C3304A-11		C3304B-3

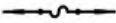
Does the indicator illuminate?

Yes	Remove the fused jumper wire. GO to E4
No	Remove the fused jumper wire. INSTALL a new heated rear seat switch. REFER to: Heated Rear Seat Switch - Crew Cab (501-10B Rear Seats, Removal and Installation).

E4 CHECK THE LOW HEAT INDICATOR

- Connect:

HEATED SEAT MODULE, REAR	HEATED SEAT MODULE, REAR
--------------------------	--------------------------

Positive Lead	Measurement / Action	Negative Lead
C3304A-10		C3304B-3

Does the indicator illuminate?

Yes	Remove the fused jumper wire. INSTALL a new heated rear seat module. REFER to: Heated Rear Seat Module - Crew Cab (501-10B Rear Seats, Removal and Installation).
No	Remove the fused jumper wire. INSTALL a new heated rear seat switch. REFER to: Heated Rear Seat Switch - Crew Cab (501-10B Rear Seats, Removal and Installation).