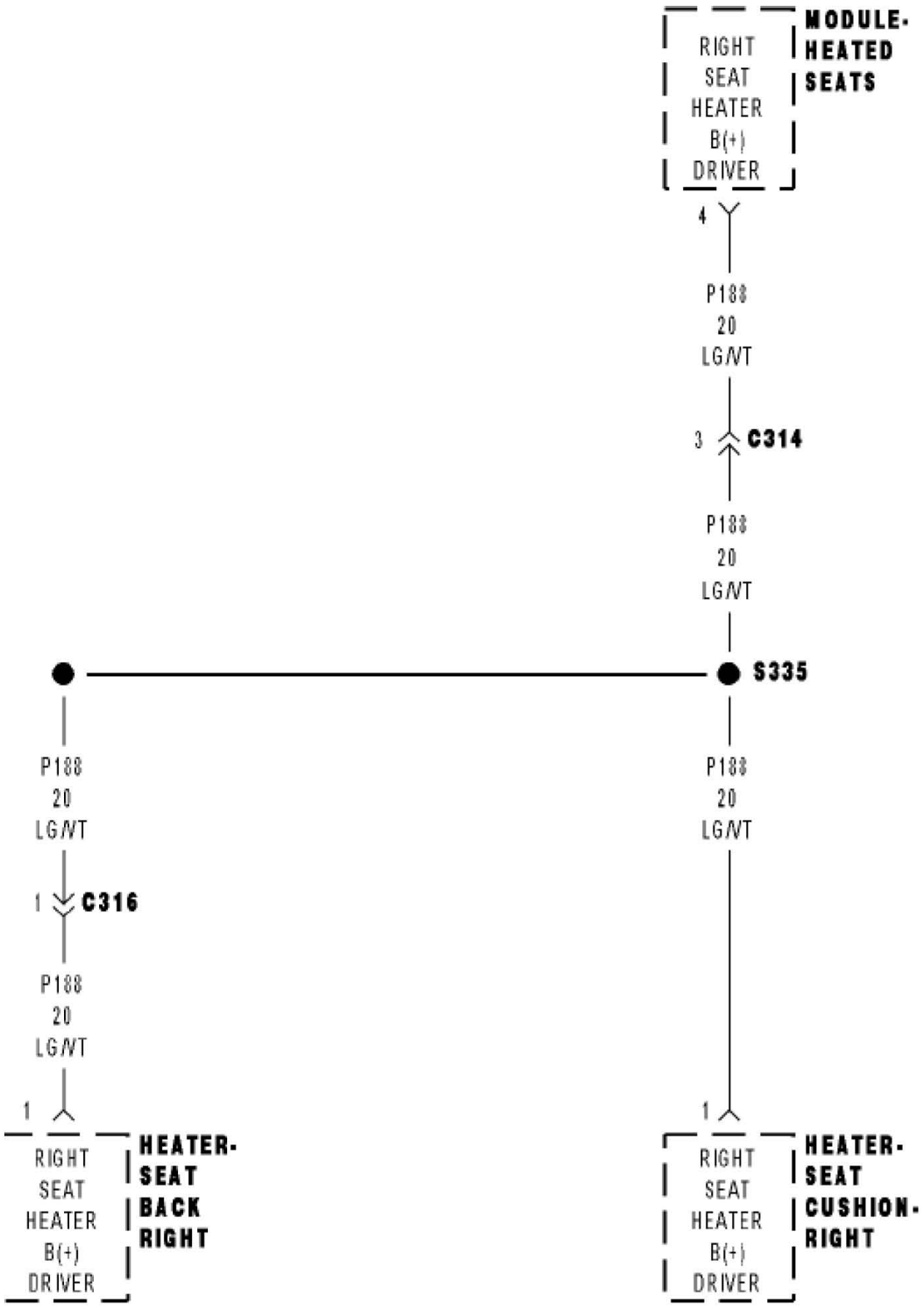
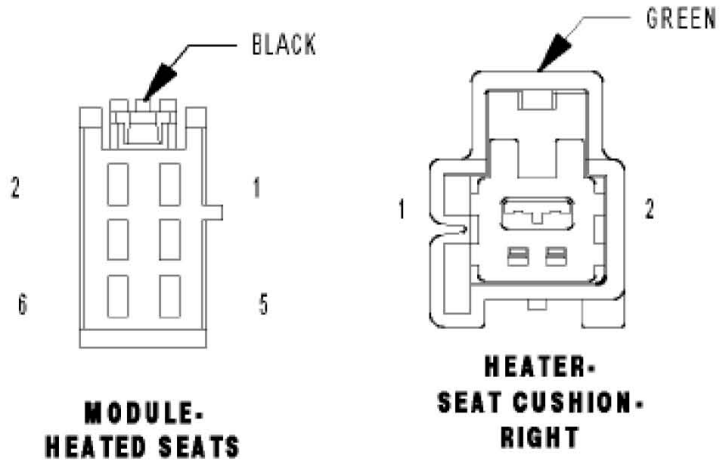
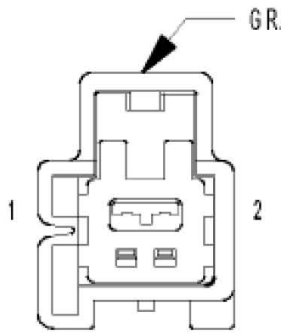
B1096 FRONT RIGHT SEAT HEATER CONTROL CIRCUIT LOW





MODULE-
HEATED SEATS

HEATER-
SEAT CUSHION-
RIGHT



HEATER-
SEAT BACK-
RIGHT

1). When Monitored:
Ignition on, during the heated seat operation.

2). Set Condition:
This code is set immediately after the Heated Seat Module detects an open in the seat heater B(+) driver circuit.

Possible Causes
1. (P188) RIGHT SEAT HEATER B(+) DRIVER SHORTED TO GROUND
2. SEAT HEATER ELEMENT PIGTAIL HARNESS SHORTED
3. SEAT CUSHION HEATER ELEMENT SHORTED
4. SEAT BACK HEATER ELEMENT SHORTED
5. HEATED SEAT MODULE

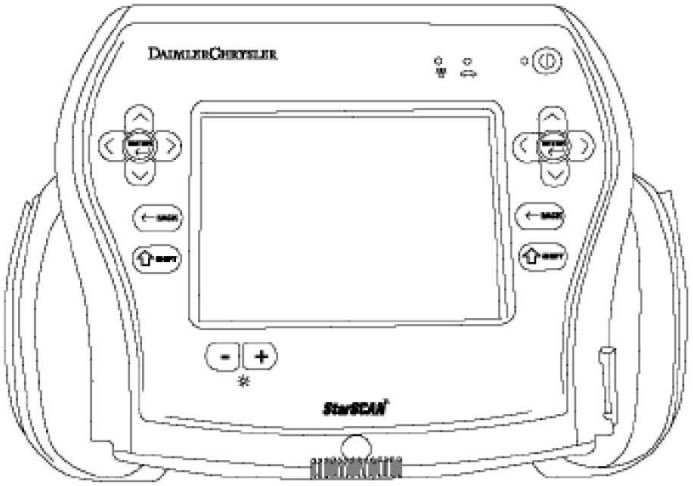
Diagnostic Test

1). VERIFY THAT DTC B1096-FRONT RIGHT SEAT HEATER CONTROL CIRCUIT LOW IS ACTIVE
With the scan tool, record and erase DTC's
Operate the Heated Seat Switch in both positions several times.
With the scan tool, read DTC's.

Does the DTC B1096-FRONT RIGHT SEAT HEATER CONTROL CIRCUIT LOW reset?

Yes >> Go To 2

No >> The conditions that caused this code to set are not present at this time. Using the wiring diagram/schematic as a guide, inspect the wiring and connectors.
Perform BODY VERIFICATION TEST – VER 1.

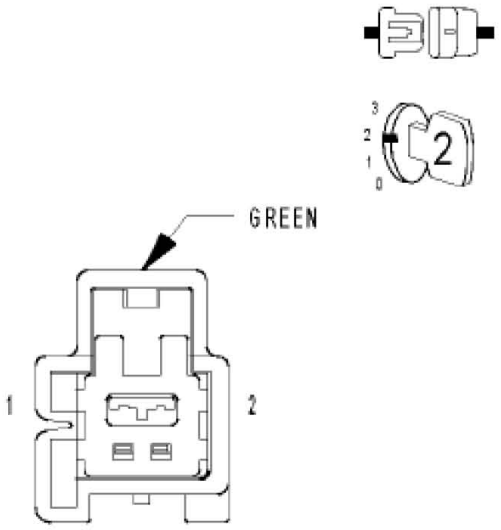


2). DISCONNECT RIGHT SEAT CUSHION HEATER 2-WAY CONNECTOR AND READ DTC'S
Disconnect the Right Seat Cushion Heater connector.
NOTE: Check connectors - Clean and repair as necessary.
With the scan tool, erase HSM DTC's
Operate the Heated Seat Switch in both positions several times.
With the scan tool, read DTC's.

Does the scan tool display the same DTC?

Yes >> Go To 7

No >> Go To 3



3). CHECK THE RIGHT SEAT BACK HEATER RESISTANCE

Disconnect the Right Seat Back Heater connector.

NOTE: Check connectors - Clean and repair as necessary.

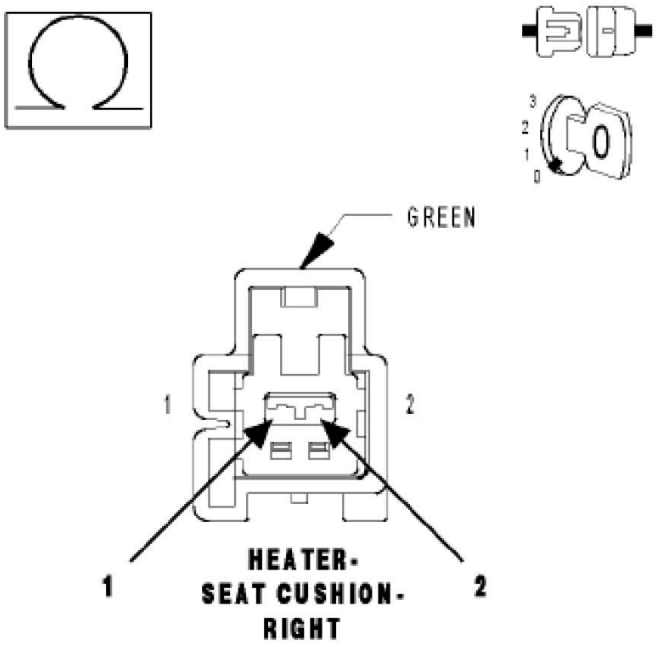
Check the resistance of the seat back heater element by measuring between the (P188) Right Seat Heater B(+) Driver and the Ground circuit at the Right seat back heater connector.

Is the resistance below 4.0 ohms?

No >> Go To 4

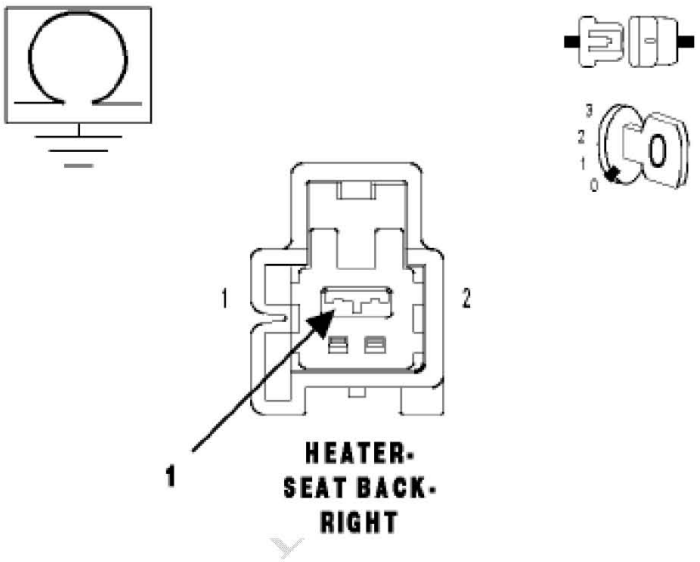
Yes >> Replace the seat back heater element as necessary.

Perform BODY VERIFICATION TEST – VER 1.



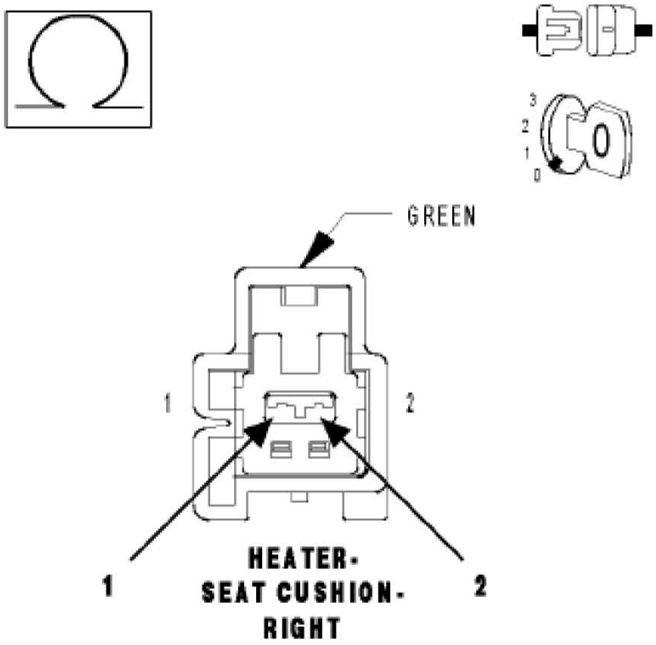
4). CHECK THE RIGHT SEAT BACK HEATER FOR A SHORT TO GROUND
Measure between the (P188) Right Seat Heater B(+) Driver circuit at the Right Seat Back Heater connector and the seat frame for a short to ground.

Is the resistance below 1000 ohms?
Yes >> Repair the pigtail harness for a short to ground condition or replace the seat back heater element as necessary.
Perform BODY VERIFICATION TEST – VER 1.
No >> Go To 5



5). CHECK THE RIGHT SEAT CUSHION HEATER RESISTANCE
Check the resistance of the cushion heater element by measuring between the (P188) Right Seat Heater B(+) Driver and the Ground circuit at the Right seat cushion heater connector.

Was the resistance below 3.5 ohms?
No >> Go To 6
Yes >> Replace the heater element as necessary.
Perform BODY VERIFICATION TEST – VER 1.



6). CHECK THE RIGHT SEAT CUSHION HEATER FOR A SHORT TO GROUND

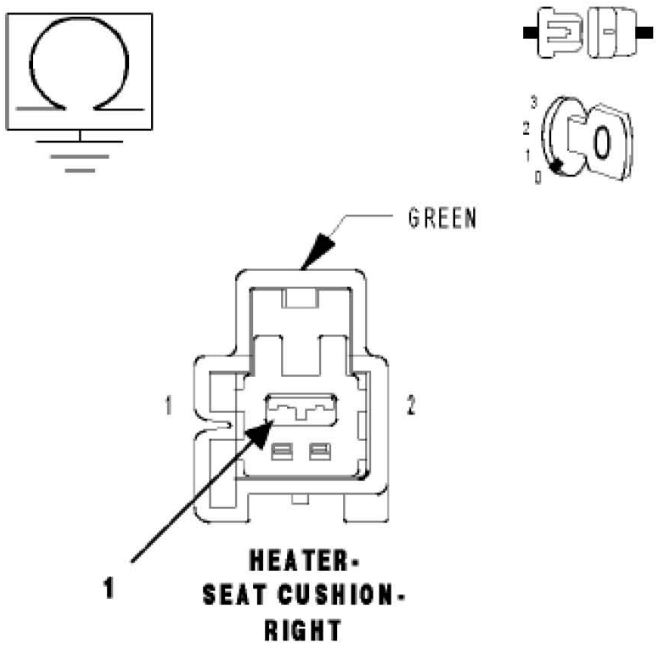
Measure between the (P188) Right Seat Heater B(+) Driver circuit at the Right Seat Cushion Heater connector and the seat frame for a short to ground.

Is the resistance below 1000 ohms?

Yes >> Repair the pigtail harness or replace the heater element as necessary.
Perform BODY VERIFICATION TEST – VER 1.

No >> Using the wiring diagram/schematic as a guide, inspect the wiring and connectors for an intermittent short to ground.
Perform BODY VERIFICATION TEST – VER 1.

LAUNCH



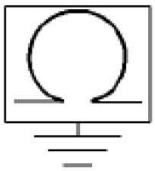
7). Check the (P188) Right Seat Heater B(+) Driver circuit for a short to ground
Disconnect the Heated Seat Module connector.

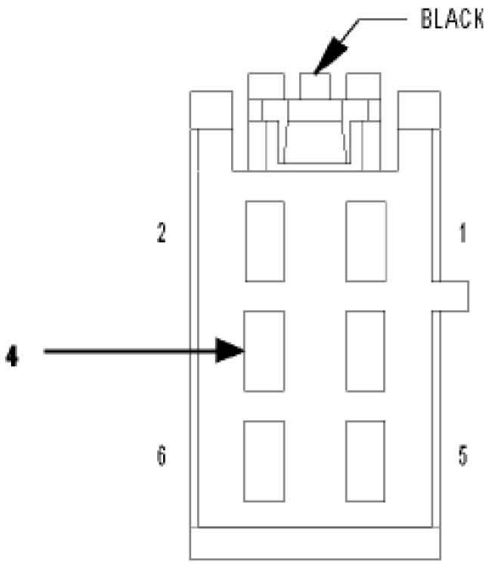
NOTE: Check connectors - Clean and repair as necessary.
Measure the (P188) Right Seat Heater B(+) Driver circuit to ground at the HSM connector.

Is the resistance below 5.0 ohms?

Yes >> Repair the (P188) Right Seat Heater B(+) Driver circuit for a short to ground.
Perform BODY VERIFICATION TEST – VER 1.

No >> Replace the Heated Seat Module.
Perform BODY VERIFICATION TEST – VER 1.





MODULE-
HEATED SEATS

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