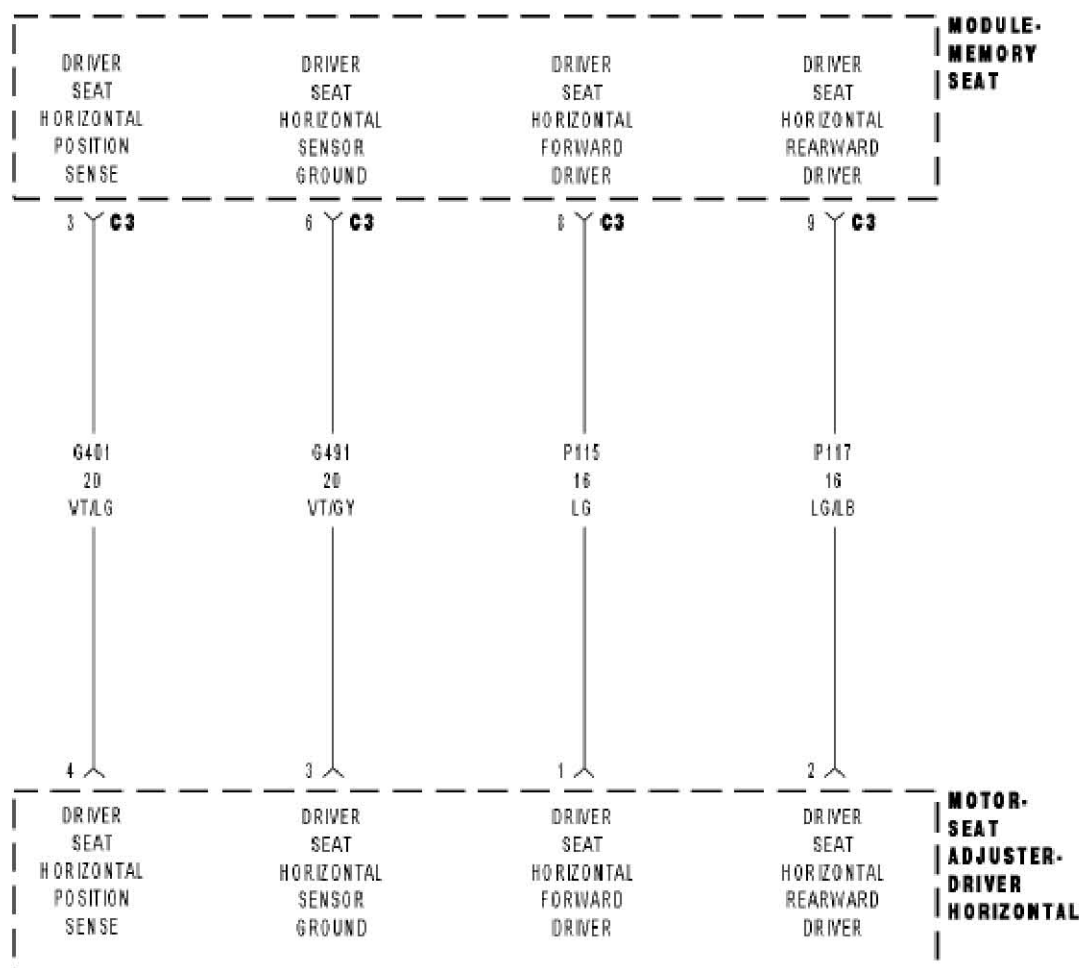
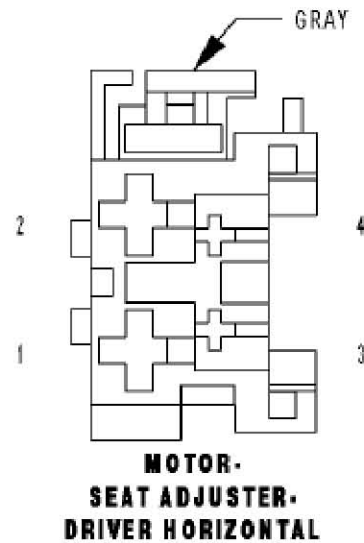
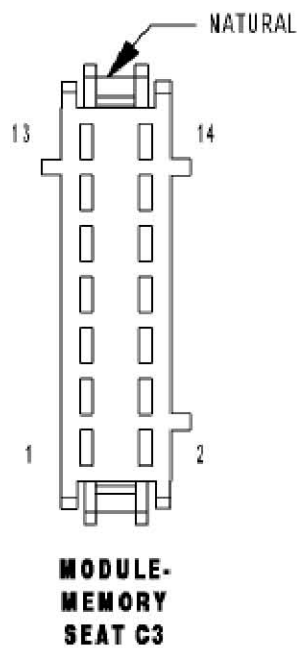


B1D7B SEAT HORIZONTAL MOTOR CONTROL CIRCUIT PERFORMANCE





1). When Monitored:

When the seat motor is activated (sensor supply voltage is switched on whenever motor is activated).

2). Set Condition:

If the Memory Seat Module does not detect the rotation of the seat motor this DTC will set. This DTC will only set when the seat switch is moved in the same direction three consecutive times.

Possible Causes

1. SEAT POSITION SENSOR CIRCUIT DIAGNOSTIC TROUBLE CODES
2. (G401) DRIVER SEAT HORIZONTAL POSITION SENSE CIRCUIT OPEN
3. (G491) DRIVER SEAT HORIZONTAL SENSOR GROUND CIRCUIT OPEN
4. (P115) DRIVER SEAT HORIZONTAL FORWARD DRIVER
5. (P117) DRIVER SEAT HORIZONTAL REARWARD DRIVER
6. DRIVER HORIZONTAL SEAT ADJUSTER MOTOR
7. MEMORY SEAT MODULE

Diagnostic Test

1). CHECK FOR RELATED DIAGNOSTIC TROUBLE CODES

Turn the ignition on.

With the scan tool, read DTC's.

Does the scan tool display any seat position sensor DTC's?

Yes >> Diagnose and repair the other DTC(s) first. Refer to the Table of Contents in this Section for a complete list of symptoms.

No >> Go To 2

2). TEST FOR INTERMITTENT CONDITION

Turn the ignition on.

With the scan tool, record and erase DTC's

Move the Seat Switch in the Horizontal position 3 times.

With the scan tool, read DTC's.

Does the scan tool display B1D7B-SEAT HORIZONTAL MOTOR CONTROL CIRCUIT PERFORMANCE?

Yes >> Go To 3

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 POWER SEAT SYSTEM VERIFICATION TEST - VER 1.
(Refer to 8 - ELECTRICAL/POWERSEATS - DIAGNOSIS AND TESTING)

3). CHECK THE (G401) DRIVER SEAT HORIZONTAL POSITION SENSE VOLTAGE

Disconnect the Driver Horizontal Seat Adjuster Motor.

NOTE: Check connectors – Clean and repair as necessary.

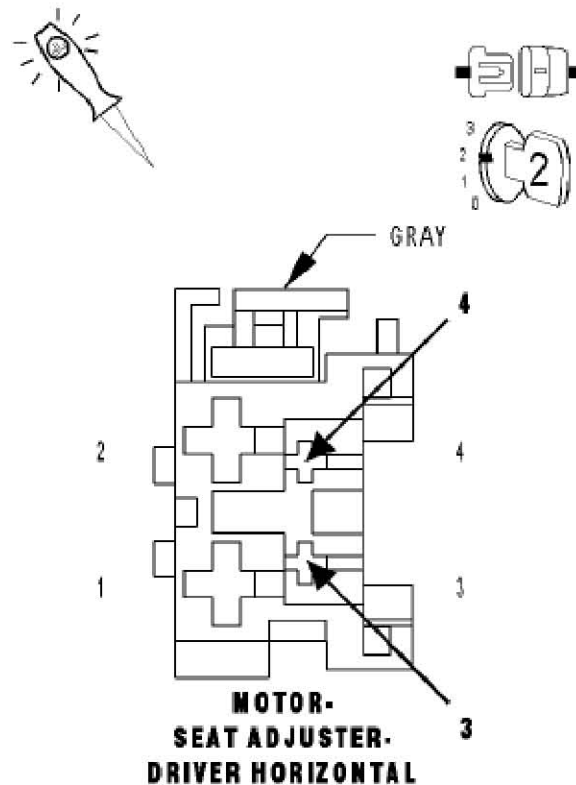
Move the Seat Switch in the Horizontal position during the next step.

Using a 12-volt test light connect one lead to the (G401) Driver Seat Horizontal Position Sense circuit and the other lead to Driver Seat Horizontal Sensor Ground at the Driver Horizontal Seat Adjuster Motor connector.

Does the test light illuminate for approximately 2 seconds then turn off with the seat switch engaged?

Yes >> Go To 4

No >> Go To 5



4). CHECK THE DRIVER SEAT HORIZONTAL FORWARD/REARWARD
DRIVER VOLTAGE

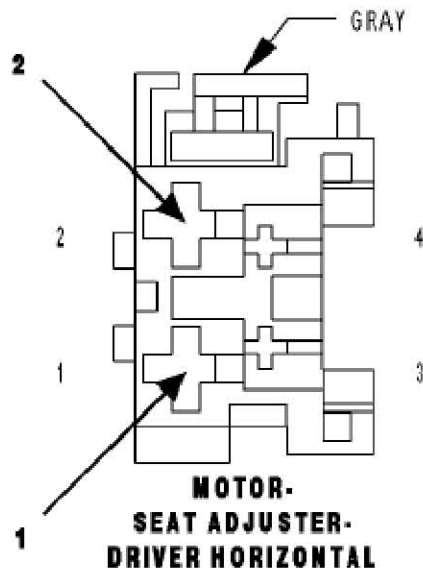
Move the Seat Switch in the Horizontal position during the next step.
Using a 12-volt test light connect one lead to the (P115) Driver Seat
Horizontal Forward Driver circuit and the other lead to (P117) Driver
Seat Horizontal Rearward Driver circuit at the Driver Horizontal Seat
Adjuster Motor connector.

Does the test light illuminate with the seat switch engaged?

Yes >> Replace the track/horizontal motor assembly.

Perform POWER SEAT SYSTEM VERIFICATION TEST –
VER 1 (Refer to 8 - ELECTRICAL/POWER SEATS - DIAGNOSIS
AND TESTING)

No >> Go To 7



5). CHECK THE (G401) DRIVER SEAT HORIZONTAL POSITION SENSE WIRE FOR AN OPEN

Disconnect the Memory Seat Module C3 connector.

NOTE: Check connectors – Clean and repair as necessary.

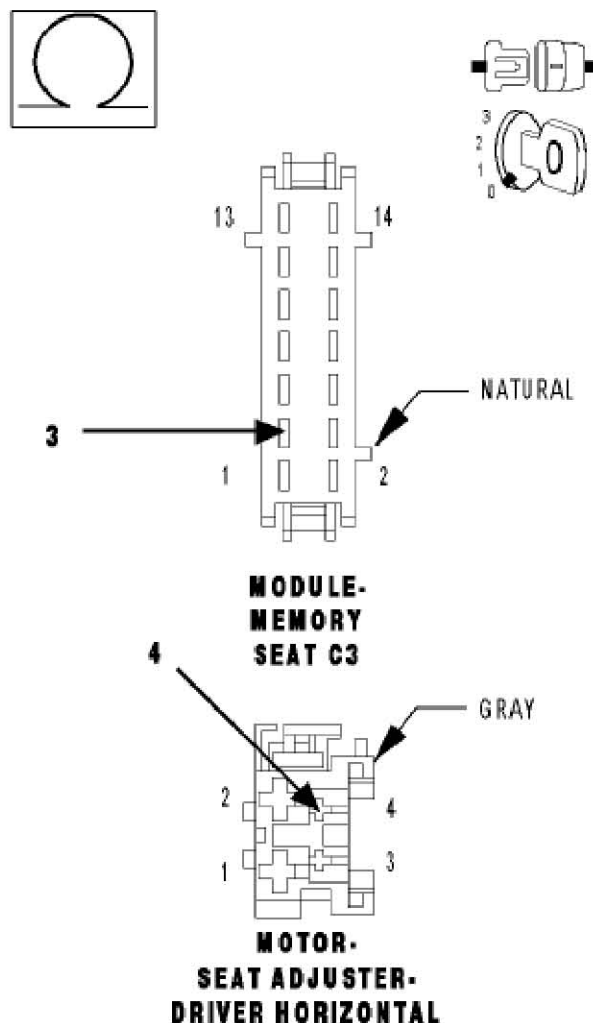
Measure the resistance of the (G401) Driver Seat Horizontal Position Sense circuit at the Driver Horizontal Seat Adjuster Motor connector to the C3 connector.

Is the resistance above 1.0 ohm?

Yes >> Repair the (G401) Driver Seat Horizontal Position Sense circuit for an open.

Perform POWER SEAT SYSTEM VERIFICATION TEST –
VER 1 (Refer to 8 - ELECTRICAL/POWER SEATS - DIAGNOSIS
AND TESTING)

No >> Go To 6



6). CHECK THE (G491) DRIVER SEAT HORIZONTAL SENSOR GROUND FOR AN OPEN

Measure the resistance of the (G491) Driver Seat Horizontal Sensor Ground circuit at the Driver Horizontal Seat Adjuster Motor connector to the C3 connector.

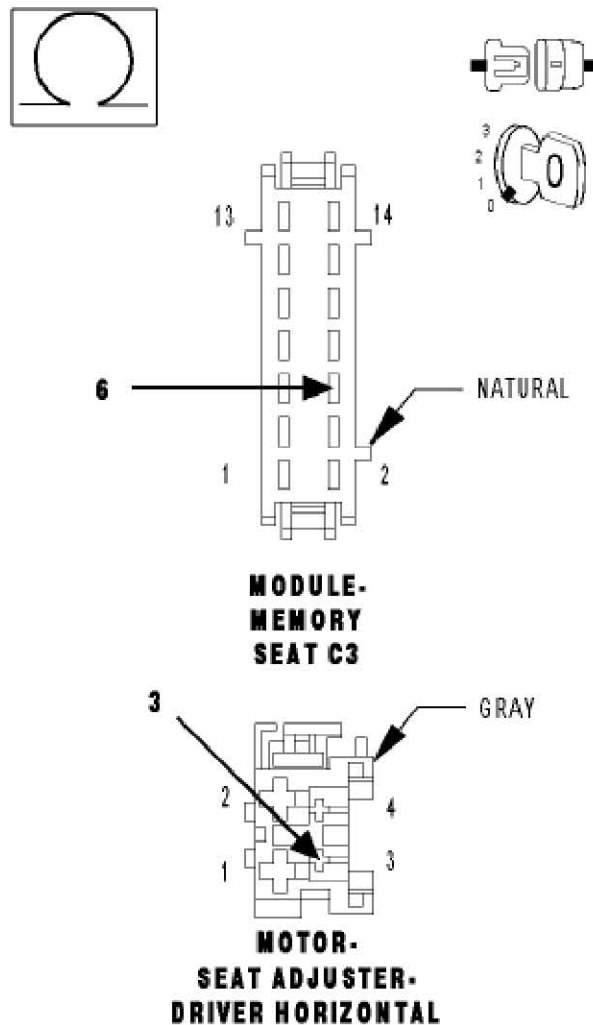
Is the resistance above 1.0 ohm?

Yes >> Repair the (G491) Driver Seat Horizontal Sensor Ground circuit for an open.

Perform POWER SEAT SYSTEM VERIFICATION TEST –
VER 1 (Refer to 8 - ELECTRICAL/POWER SEATS - DIAGNOSIS AND TESTING)

No >> Replace the Memory Seat Module.

Perform POWER SEAT SYSTEM VERIFICATION TEST –
VER 1 (Refer to 8 - ELECTRICAL/POWER SEATS - DIAGNOSIS AND TESTING)



7). CHECK THE (P115) DRIVER SEAT HORIZONTAL FORWARD DRIVER WIRE FOR AN OPEN

Disconnect the Memory Seat Module C3 connector.

NOTE: Check connectors – Clean and repair as necessary.

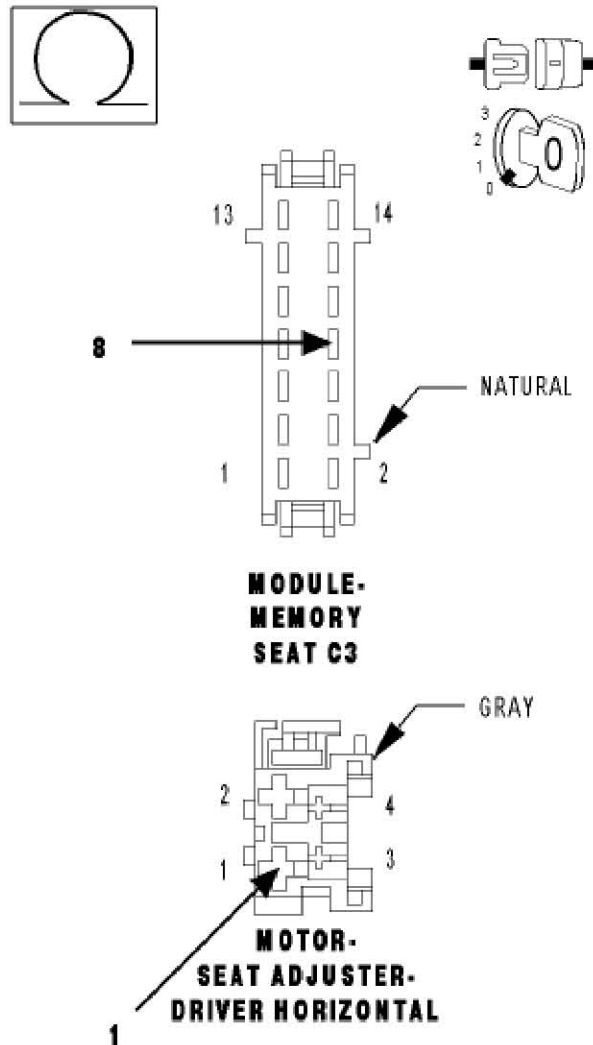
Measure the resistance of the (P115) Driver Seat Horizontal Forward Driver circuit at the Driver Horizontal Seat Adjuster Motor connector to the C3 connector.

Is the resistance above 1.0 ohm?

Yes >> Repair the (P115) Driver Seat Horizontal Forward Driver circuit for an open.

Perform POWER SEAT SYSTEM VERIFICATION TEST –
VER 1 (Refer to 8 - ELECTRICAL/POWER SEATS - DIAGNOSIS
AND TESTING)

No >> Go To 8



8). CHECK THE (P117) DRIVER SEAT HORIZONTAL REARWARD DRIVER AN OPEN

Measure the resistance of the (P117) Driver Seat Horizontal Rearward Driver circuit at the Driver Horizontal Seat Adjuster Motor connector to the C3 connector.

Is the resistance above 1.0 ohm?

Yes >> Repair the (P117) Driver Seat Horizontal Rearward Driver circuit for an open.

Perform POWER SEAT SYSTEM VERIFICATION TEST – VER 1 (Refer to 8 - ELECTRICAL/POWER SEATS - DIAGNOSIS AND TESTING)

No >> Replace the Memory Seat Module.

Perform POWER SEAT SYSTEM VERIFICATION TEST – VER 1 (Refer to 8 - ELECTRICAL/POWER SEATS - DIAGNOSIS AND TESTING)

