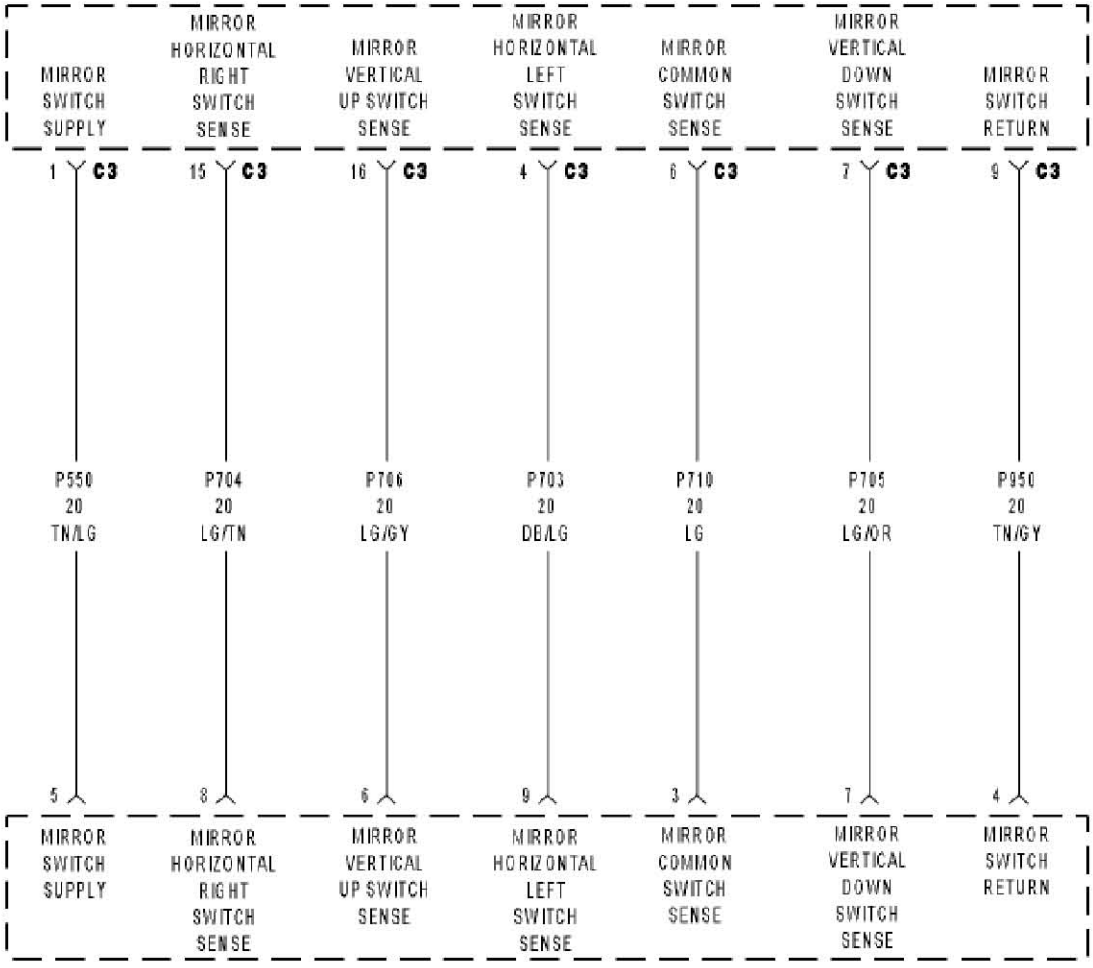
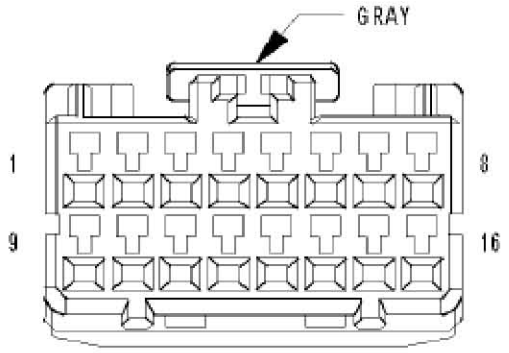
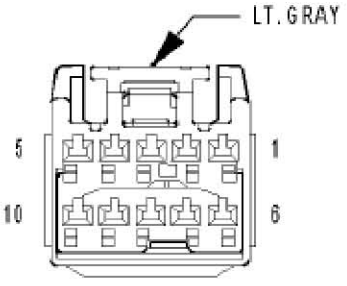
B1D04 MIRROR ADJUST SWITCH INPUT CIRCUIT/PERFORMANCE – DRIVER DOOR MODULE





MODULE-DOOR-DRIVER C3 (MEMORY)



SWITCH-MIRROR

1). When Monitored:
Continuously
2). Set Condition:
When the Driver Door Module receives a mirror movement comand from the switch but then senses an open or shorted circuit on one of the switch sense circuits for over 100 ms., this code will set.

Possible Causes
1. (P703) MIRROR HORIZONTAL LEFT SWITCH SENSE OPEN
2. (P703) MIRROR HORIZONTAL LEFT SWITCH SENSE SHORT TO GROUND
3. (P703) MIRROR HORIZONTAL LEFT SWITCH SENSE CIRCUIT SHORTED TO ANOTHER SWITCH SENSE CIRCUIT
4. (P704) MIRROR HORIZONTAL RIGHT SWITCH SENSE OPEN (P704) MIRROR HORIZONTAL RIGHT SWITCH SENSE SHORT TO GROUND
5. (P704) MIRROR HORIZONTAL RIGHT SWITCH SENSE CIRCUIT SHORTED TO ANOTHER SWITCH SENSE CIRCUIT
6. (P705) MIRROR VERTICAL DOWN SWITCH SENSE OPEN
7. (P705) MIRROR VERTICAL DOWN SWITCH SENSE SHORT TO GROUND
8. (P705) MIRROR VERTICAL DOWN SWITCH SENSE CIRCUIT SHORTED TO ANOTHER SWITCH SENSE CIRCUIT
9. (P706) MIRROR VERTICAL UP SWITCH SENSE OPEN
10. (P706) MIRROR VERTICAL UP SWITCH SENSE SHORT TO GROUND
11. (P706) MIRROR VERTICAL UP SWITCH SENSE CIRCUIT SHORTED TO ANOTHER SWITCH SENSE CIRCUIT
12. (P710) MIRROR COMMON SWITCH SENSE OPEN
13. (P710) MIRROR COMMON SWITCH SENSE SHORT TO GROUND
14. (P710) MIRROR COMMON SWITCH SENSE CIRCUIT SHORTED TO ANOTHER SWITCH SENSE CIRCUIT MIRROR SWITCH
15. DRIVER DOOR MODULE

Theory of Operation

This code will only set in vehicles that have the Memory System. The supply circuit for the Memory Mirrors are supplied by the Driver Door Module.

Diagnostic Test

1). TEST FOR INTERMITTENT CONDITION

Turn the ignition on.
With the scan tool, record and erase DTC's
Press the Mirror Switch in all directions several times.
Cycle the ignition from on to off 3 times.
Turn the ignition on.
With the scan tool, read DTC's.

Does the scan tool display B1D04–MIRROR ADJUST SWITCH INPUT CIRCUIT/PERFORMANCE?

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. If the conditions returns, replace the switch.
Perform BODY VERIFICATION TEST - VER 1.

2). TEST THE SWITCH

Turn the ignition off.
Remove the Driver Window/Door Lock Switch assembly.
Test the Mirror Switch in all positions by using the procedure in SERVICE INFORMATION / POWER LOCKS / WINDOW/
LOCK SWITCH / DIAGNOSING & TESTING / WINDOW/LOCK SWITCH.

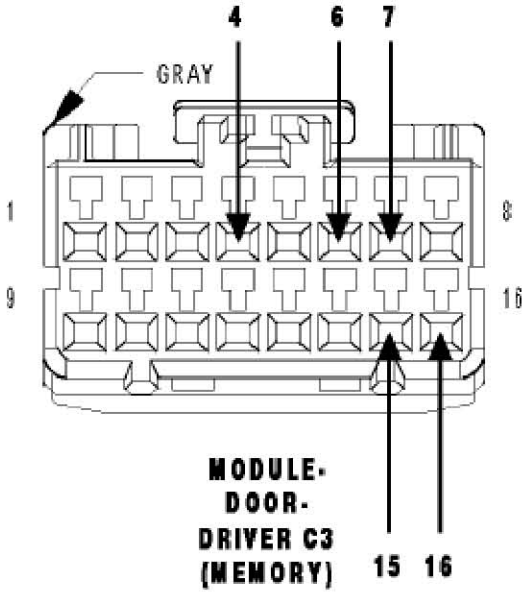
Does the switch pass the test in all positions

No >> Replace the Mirror Switch.
Perform BODY VERIFICATION TEST - VER 1.

Yes >> Go to 3

3). TEST FOR SWITCH SENSE WIRE SHORT TO GROUND
Disconnect the Driver Door Module C3 connector.
Measure the resistance between Ground and the (P703) Mirror Horizontal Left Switch Sense circuit in the Driver Door Module connector.
Measure the resistance between Ground and the (P704) Mirror Horizontal Right Switch Sense circuit in the Driver Door Module connector.
Measure the resistance between Ground and the (P705) Mirror Vertical Down Switch Sense circuit in the Driver Door Module connector.
Measure the resistance between Ground and the (P706) Mirror Vertical Up Switch Sense circuit in the Driver Door Module connector.
Measure the resistance between Ground and the (P710) Mirror Common Switch Sense circuit in the Driver Door Mirror Module connector.

Is the resistance below 5000.0 ohms in any of the circuits?
Yes >> Repair the Appropriate Switch Sense circuit for a short to ground.
Perform BODY VERIFICATION TEST - VER 1.
No >> Go to 4



4). TEST FOR SWITCH SENSE CIRCUIT OPEN

Disconnect the Mirror Switch connector.

Measure the resistance of the (P703) Mirror Horizontal Left Switch Sense circuit between the Driver Door Module connector and the Mirror Switch connector.

Measure the resistance of the (P704) Mirror Horizontal Right Switch Sense circuit between the Driver Door Module connector and the Mirror Switch connector.

Measure the resistance of the (P705) Mirror Vertical Down Switch Sense circuit between the Driver Door Module connector and the Mirror Switch connector.

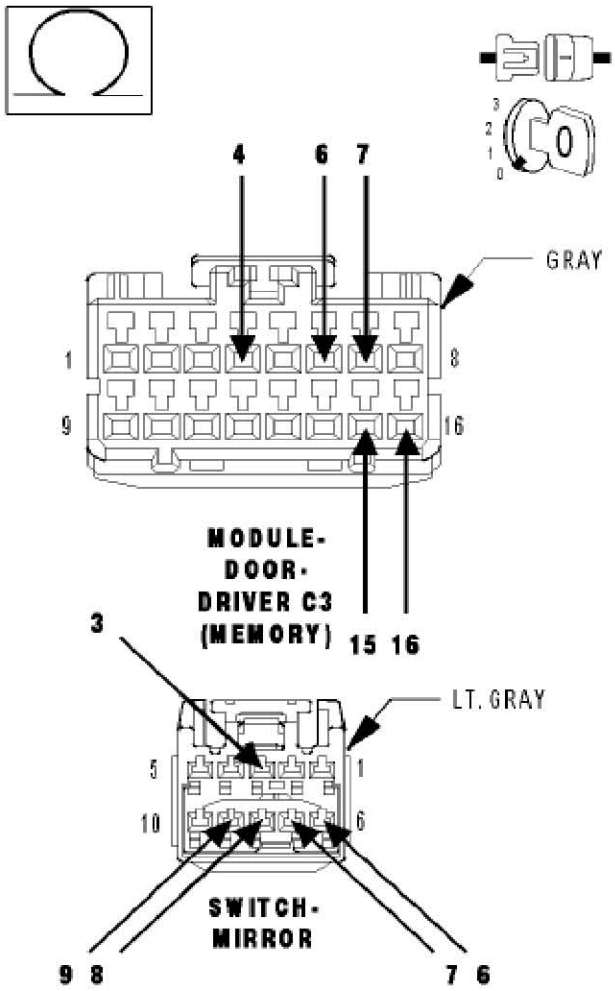
Measure the resistance of the (P706) Mirror Vertical Up Switch Sense circuit between the Driver Door Module connector and the Mirror Switch connector.

Measure the resistance of the (P710) Mirror Common Switch Sense circuit between the Driver Door Module connector and the Mirror Switch connector.

Is the resistance below 2.0 ohms in all of the Switch Sense circuits?

No >> Repair the Appropriate Switch Sense circuit for an open.
Perform BODY VERIFICATION TEST - VER 1.

Yes >> Go to 5



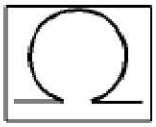
5). TEST FOR A SWITCH SENSE CIRCUIT SHORTED TO ANOTHER SWITCH SENSE CIRCUIT

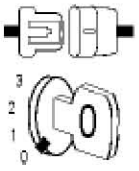
Measure the resistance between each of the switch sense circuits to each of the other switch sense circuits.

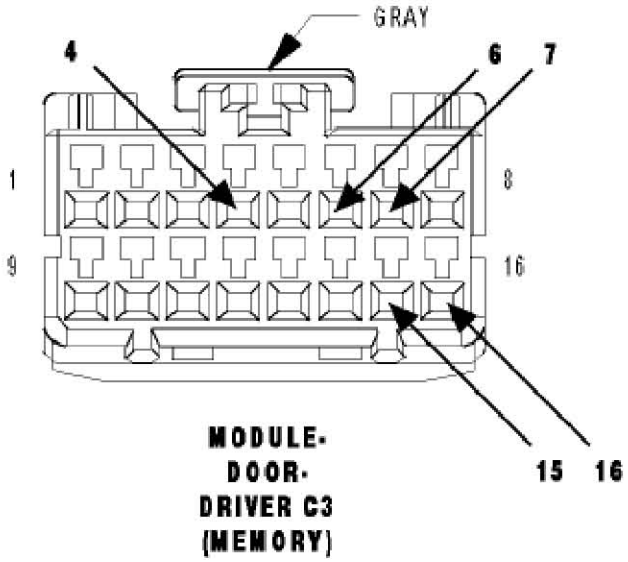
Is the resistance below 10000.0 ohms between any of the switch sense circuits?

Yes >> Repair the appropriate switch sense circuit for a short to the other switch sense circuits.
Perform the BODY VERIFICATION TEST - VER 1.

No >> Replace the Driver Door Module.
Perform BODY VERIFICATION TEST - VER 1.







MODULE-
DOOR-
DRIVER C3
(MEMORY)