

B2107 IGNITION SWITCH SENSE INPUT CIRCUIT/PERFORMANCE

- 1). When Monitored:
With the Instrument Cluster awake.
- 2). Set Condition:
Ignition switch in RUN or START, and Ignition RUN/START LOW. Ignition Switch in LOCK or UNLOCK, and Ignition RUN/START HIGH.

Possible Causes
1. FUSED IGNITION SWITCH FUSES 2. (F202) FUSED IGNITION SWITCH OUTPUT (RUN-START) OPEN 3. (A106) FUSED B+ CIRCUIT OPEN 4. IGNITION SWITCH 5. INSTRUMENT CLUSTER

Diagnostic Test

- 1). CHECK FOR AN ACTIVE DTC
Turn the ignition on.
With the scan tool, record and erase DTCs.
Wait 30 seconds.
With the scan tool, read DTCs.

Is the DTC active?

Yes >> Go To 2

No >> The condition that caused this code to set is not present at this time.
Check for an intermittent condition by inspecting the related wiring harness for chaffed, pierced, pinched, and partially broken wires. Also inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals.
Perform BODY VERIFICATION TEST - VER 1.

- 2). CHECK PDC FUSES

Inspect PDC fuses #8, and #29 in the PDC.

Is either fuse open?

Yes >> Using the wiring diagram/schematic as a guide, inspect the wiring and connectors for a short to ground condition.

No >> Go To 3

3). CHECK FOR VOLTAGE ON THE (F202) FUSED IGNITION SWITCH OUTPUT (RUN-START) CIRCUIT

Turn the ignition off.

Disconnect the Instrument Cluster C3 harness connector.

Turn the ignition on.

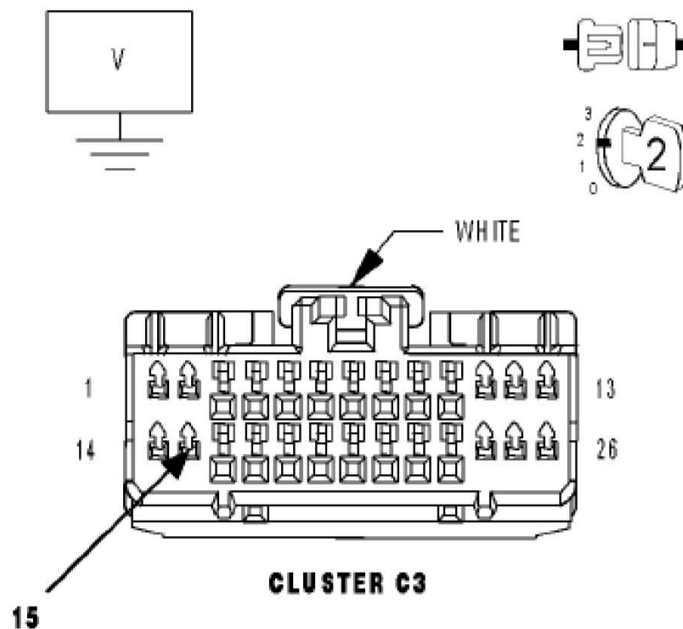
Measure the voltage of the (F202) Fused Ignition Switch Output (Run-Start) circuit.

Is the voltage above 10.0 volts?

Yes >> Replace the Instrument Cluster in accordance with the service information.

Perform BODY VERIFICATION TEST - VER 1.

No >> Go To 4



4). CHECK THE (F202, F20) FUSED IGNITION SWITCH OUTPUT (RUN-START) CIRCUIT FOR AN OPEN

Disconnect the Ignition Switch harness connector.

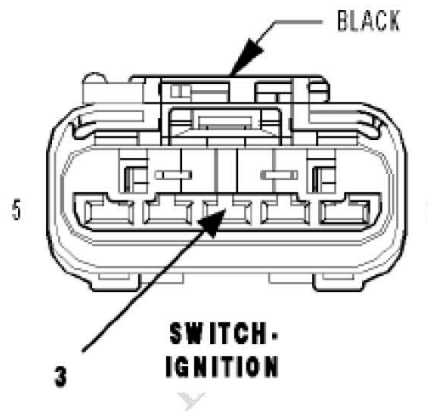
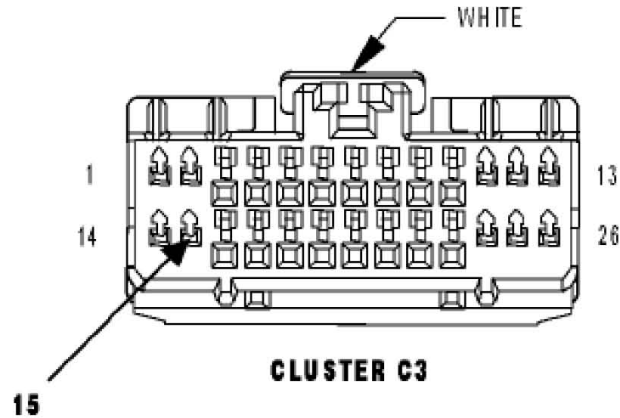
Measure the resistance of the (F202, F20) Fused Ignition Switch Output (Run-Start) circuit between the Instrument Cluster C3 harness connector and the Ignition Switch harness connector.

Is the resistance above 5.0 ohms?

Yes >> Repair the (F202, F20) Fused Ignition Switch Output (Run- Start) circuit for an open.

Perform BODY VERIFICATION TEST - VER 1.

No >> Go To 5



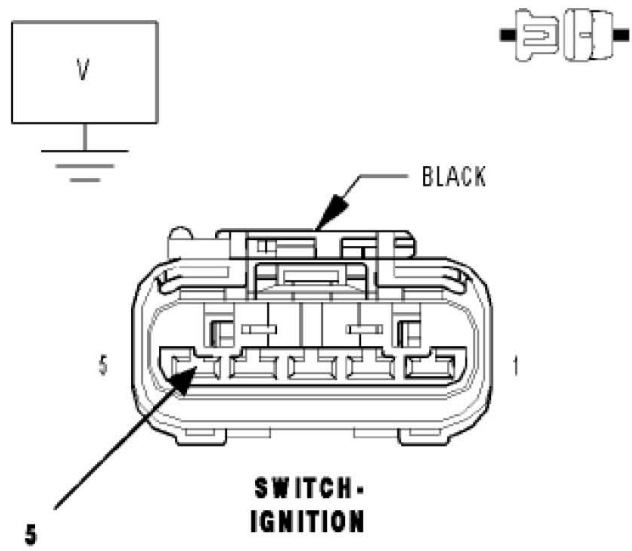
- 5). CHECK THE (A106) FUSED B+ CIRCUIT FOR AN OPEN
 Measure the voltage on the (A106) Fused B+ circuit at the Ignition Switch harness connector.

Is the voltage above 10.0 volts?

Yes >> Replace the Ignition Switch in accordance with the service information.

Perform BODY VERIFICATION TEST - VER 1.

No >> Repair the (A106) Fused B+ circuit for an open.
 Perform BODY VERIFICATION TEST - VER 1.



LAUNCH