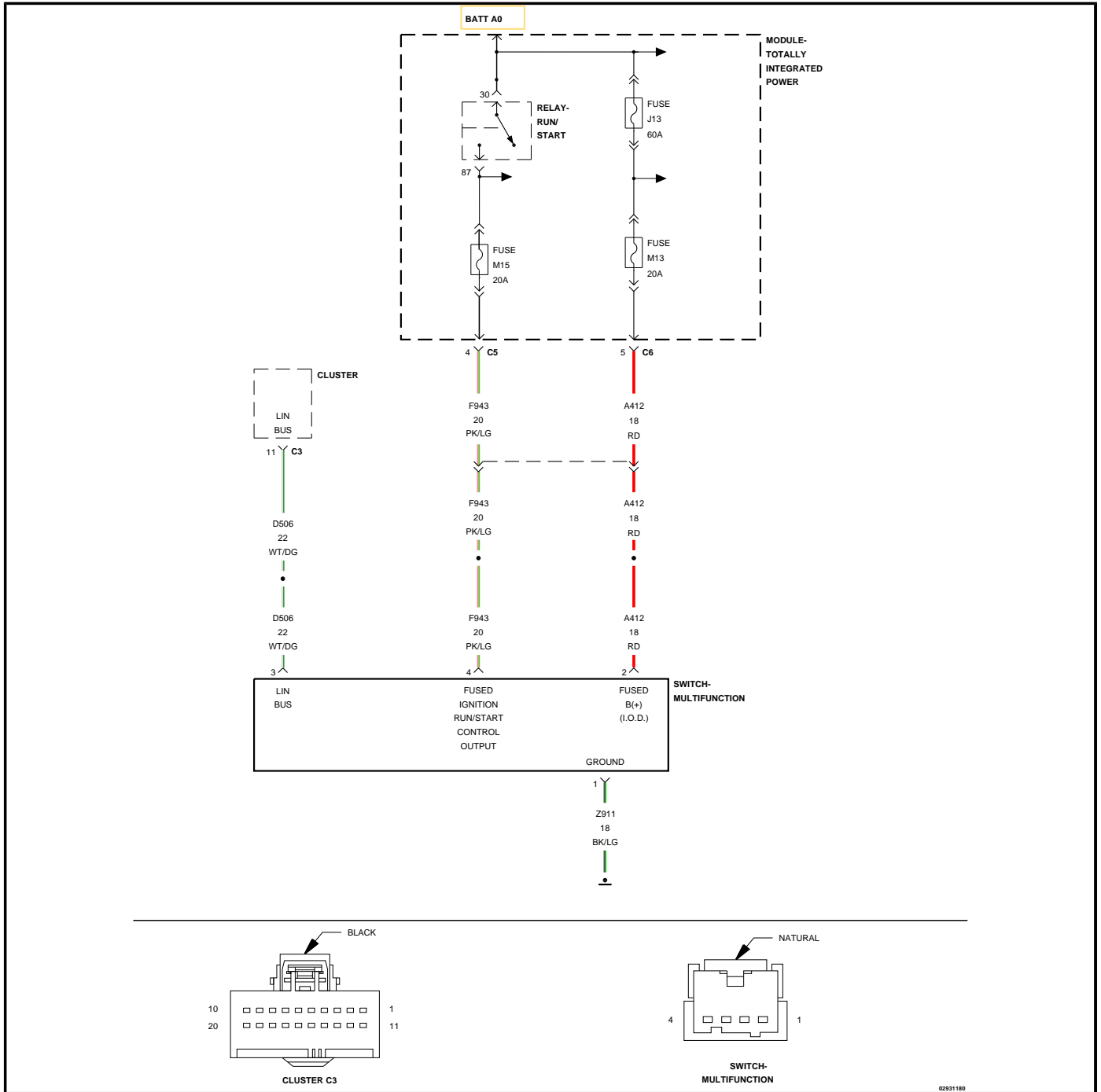


U1149-LOST COMMUNICATION WITH MULTI-FUNCTION SWITCH



For a complete wiring diagram, refer to the **Wiring Information**.

- **When Monitored:**
With the ignition on.
- **Set Condition:**

The Cluster does not receive any LIN Bus messages from the Multifunction Switch.

Possible Causes

(D506) LIN BUS CIRCUIT OPEN

(F943) FUSED IGNITION RUN/START CONTROL OUTPUT CIRCUIT OPEN

(A412) FUSED B(+) (I.O.D.) CIRCUIT OPEN

(Z911) GROUND CIRCUIT OPEN

MULTIFUNCTION SWITCH

1. CHECK FOR AN ACTIVE DTC

NOTE: Before proceeding with this diagnostic process, verify the proper connection of the Multifunction Switch harness connector. A loose connection at this connector will cause this DTC to set.

1. Turn the ignition off.
2. Gently pull the Multifunction Switch connector harness to verify the locking tab is fully engaged. If the connector locking tab is not fully engaged, push to seat the connector locking tab.
3. Turn the ignition on.
4. Wait 30 seconds.
5. With the scan tool, read DTCs.

Does the scan tool display this DTC as 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 chafed, pierced, pinched, and partially broken wires. Also inspect the related connectors for broken, bent, pushed out, spread, corroded, or contaminated terminals.

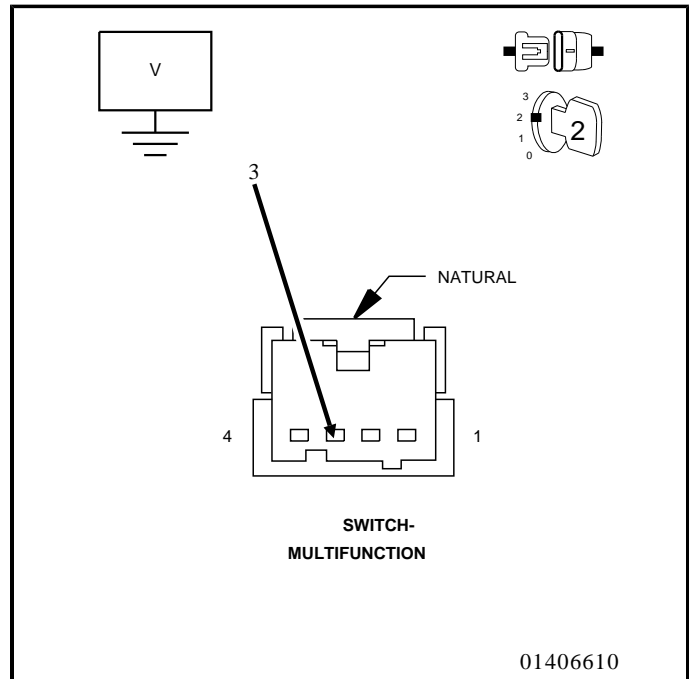
- Perform the BODY VERIFICATION TEST. (Refer to 28 - DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure).

2. (D506) LIN BUS CIRCUIT OPEN

1. Turn the ignition off.
2. Disconnect the Multifunction Switch harness connector.
3. Turn the ignition on.
4. Measure the voltage of the (D506) LIN BUS circuit.

Is the voltage above 5 volts?

- Yes**
- Go To 3
- No**
- Repair the (D506) LIN BUS circuit for an open
 - Perform the BODY VERIFICATION TEST. (Refer to 28 - DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure).

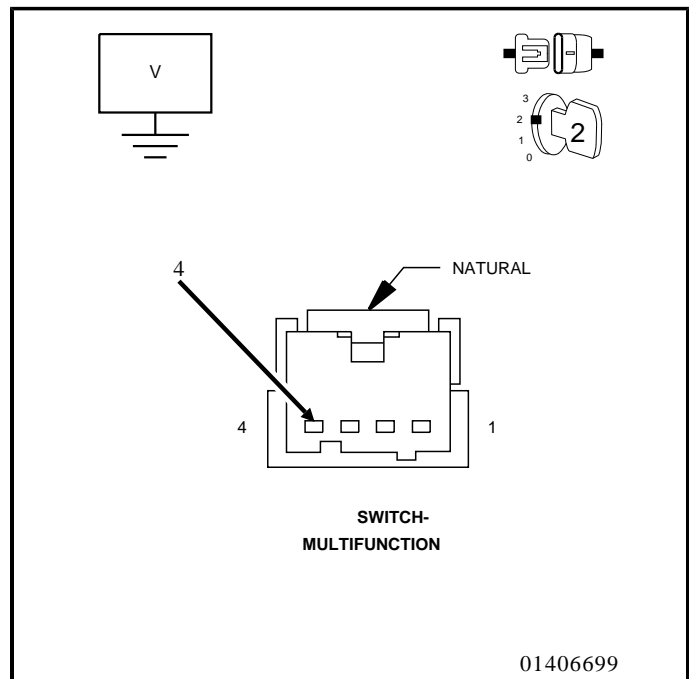


3. (F943) FUSED IGNITION RUN/START CONTROL OUTPUT CIRCUIT OPEN

1. Measure the voltage of the (F943) Fused Ignition Run/Start Control Output circuit.

Is the voltage above 10 volts?

- Yes**
- Go To 4
- No**
- Repair the (F943) Fused Ignition Run/Start Control Output circuit for an open. Inspect the related fuse. If the fuse is open, check the circuit for a short to ground.
 - Perform the BODY VERIFICATION TEST. (Refer to 28 - DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure).

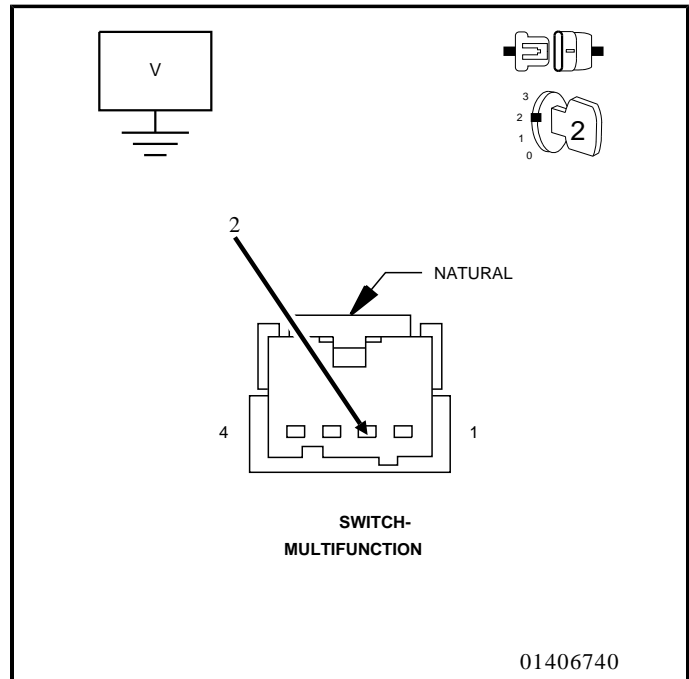


4. (A412) FUSED B(+) (I.O.D.) CIRCUIT OPEN

1. Measure the voltage of the (A412) Fused B(+) (I.O.D.) circuit.

Is the voltage above 10 volts?

- Yes**
- Go To 5
- No**
- Repair the (A412) Fused B(+) (I.O.D.) circuit for an open. Inspect the related fuse. If the fuse is open, check the circuit for a short to ground.
 - Perform the BODY VERIFICATION TEST. (Refer to 28 - DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure).



5. (Z911) GROUND CIRCUIT OPEN

1. Turn the ignition off.
2. Measure the resistance between ground and the (Z911) Ground circuit.

Is the resistance below 10K Ohms?

- Yes**
- Replace the Multifunction Switch in accordance with the Service Information.
 - Perform the BODY VERIFICATION TEST. (Refer to 28 - DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure).
- No**
- Repair the (Z911) Ground circuit for an open.
 - Perform the BODY VERIFICATION TEST. (Refer to 28 - DTC-Based Diagnostics/MODULE, Totally Integrated Power (TIPM) - Standard Procedure).

