

B2102 IGNITION RUN/START INPUT CIRCUIT HIGH

1). When Monitored:

While the CAN bus ignition status is RUN or signal not available and the IOD status is 9IN9. The module checks the (F201) Fused Ignition Switch Output (Run-Start) circuit voltage input range.

2). Set Condition:

If the module detects that the ignition voltage is greater than 24.25 volts ± 0.25 volts for 10 seconds.

Possible Causes
1. VEHICLE CHARGING SYSTEM
2. VEHICLE WIRING & HARNESS CONNECTORS
3. OCCUPANT RESTRAINT CONTROLLER

Diagnostic Test

1). VERIFY THAT DTC B2102-IGNITION RUN/START INPUT CIRCUIT HIGH IS ACTIVE

NOTE: Ensure the battery is fully charged.

NOTE: When reconnecting Airbag system components, the ignition must be turned off and the battery must be disconnected.

Turn the ignition on, then off, and then on again.

With the scan tool, read Occupant Classification Module (OCM) DTCs.

Does the scan tool display active: B2102-IGNITION RUN/START INPUT CIRCUIT HIGH?

Yes >> Go To 2

No >> Go To 3

2). CHECK FOR CHARGING SYSTEM RELATED DTCs IN THE POWERTRAIN CONTROL MODULE (PCM)

With the scan tool in ECU View, select PCM and check for any Charging System related DTCs.

Does the scan tool display any Charging System related DTCs?

Yes >> Diagnose and repair the DTCs. Refer to (Refer to 9 - ENGINE - DIAGNOSIS AND TESTING).

No >> Replace the OCM in accordance with the Service Information. Perform OCS VERIFICATION TEST - VER 1.

3). TEST FOR INTERMITTENT CONDITION

With the scan tool, record and erase all DTCs from all Airbag modules.

If any ACTIVE codes are present they must be resolved before diagnosing any stored codes.

WARNING: To avoid personal injury or death, turn the ignition off, disconnect the battery and wait two minutes before proceeding.

Using the wiring diagram/schematic as a guide, inspect the wiring and connectors.

Look for chaffed, pierced, pinched, or partially broken wires and broken, bent, pushed out, spread, corroded, or contaminated terminals.

The following additional checks may assist you in identifying a possible intermittent problem.

Reconnect any disconnected components and harness connector.

WARNING: To avoid personal injury or death, turn the ignition on, then reconnect the battery.

With the scan tool, monitor active codes as you work through the following steps.

WARNING: To avoid personal injury or death, maintain a safe distance from all airbags while performing the following steps.

Wiggle the wiring harness and connectors of the related airbag circuit or component.

If codes are related to the Driver Airbag circuits, rotate the steering wheel from stop to stop.

If only stored codes return, continue the test until the problem area has been isolated.

In the previous steps you have attempted to recreate the conditions responsible for setting the active DTC in question.

Does the scan tool display any ACTIVE DTCs?

Yes >> Select appropriate symptom from Symptom List.

No >> No problem found Erase all codes before returning vehicle to customer.