



U352D

High Voltage System Interlock Circuit J

U352D indicates that the vehicle's high-voltage interlock loop, specifically circuit J, has reported a voltage level above the expected threshold. The interlock is a safety circuit that confirms all high-voltage connectors and covers are properly seated; the computer detected an abnormally high voltage on this particular segment, which can prevent the high-voltage system from energizing.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Network	Generic (all makes)	High	Professional	Network communication

Symptoms you may notice

- Hybrid or electric vehicle may fail to start or enter 'Ready' mode
- High-voltage system warning light or message on the dashboard
- Vehicle may switch to limp mode or disable electric drive
- Often no symptoms besides the warning light, especially if the fault is intermittent
- Charging system may refuse to initiate or stop unexpectedly
- Other high-voltage related codes may be stored alongside U352D

Common causes, most likely first

- Corroded, damaged, or unseated high-voltage interlock connector
- Faulty interlock switch inside a high-voltage component (e.g., battery pack, inverter, charger)
- Wiring harness damage (chafed, pinched, or broken wire) in the interlock circuit
- Water intrusion or contamination in a high-voltage connector
- Failed high-voltage control module or battery management system
- Aftermarket or improper repair affecting the interlock loop
- Loose or improperly torqued high-voltage cable connection



How to diagnose and fix it

- 1 Perform a visual inspection of all high-voltage connectors and covers for damage, corrosion, or loose fit
- 2 Use a scan tool to read all high-voltage system codes and freeze-frame data to identify the affected circuit
- 3 Check service information for the specific interlock circuit J routing and test continuity and voltage per manufacturer procedure
- 4 Disconnect and reseal each high-voltage connector in the interlock loop, checking for proper click and terminal condition
- 5 Measure interlock loop resistance or voltage at the control module to isolate an open or high-resistance segment
- 6 Inspect wiring harness for damage near routing points and repair as needed
- 7 If all external circuits check out, test or replace the high-voltage component containing the interlock switch

Interlock faults that mimic component failures

- A common oversight is replacing an expensive high-voltage component when the actual fault is a partially unseated connector that only loses contact under vibration or temperature change.
- The interlock circuit often carries a low-voltage pilot signal; a high voltage reading on circuit J can be caused by a poor ground reference rather than a true overvoltage condition.
- After any high-voltage repair, the interlock loop must be fully verified with a scan tool before returning the vehicle to service, as some systems require a relearn procedure.
- Water intrusion in a connector can create a high-resistance path that sets an interlock voltage code without any visible corrosion on the terminals.
- U352D may be stored as a history code after a one-time event such as a connector being bumped during service, so clearing and retesting is a valid first step.

Can I keep driving with U352D?

Do not continue driving with an active high-voltage interlock fault, as the vehicle may unexpectedly lose power or disable the high-voltage system; have it diagnosed and repaired by a qualified technician before further use.

Tools that help

- OBD-II scan tool with hybrid/EV capability
- Digital multimeter (CAT III rated for high-voltage environments)
- Insulation tester (megohmmeter)
- Manufacturer service information for interlock circuit diagrams
- Terminal pick and connector release tools



Reading U352D

- U** Network: communication between the vehicle's control modules.
- 3** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 5** Network communication.
- 2D** The exact fault within that area.

Often seen with

P0A0D High Voltage System Interlock Circuit A High · **P0AA6** Hybrid/EV Battery Voltage System Isolation Fault
 · **U0111** Lost Communication With Battery Energy Control Module 'A' · **U352C** High Voltage System Interlock Circuit H High · **U352E** High Voltage System Interlock Circuit J Performance

See it working

Watch the animated explainer [How a Boxer Engine Works: Flat Engine Cutaway](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u352d/>

