

GENERIC · NETWORK

U0325

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

U0325

Software Incompatibility with Auxiliary Heater Control Module

U0325 is a communication fault where the auxiliary heater control module reports a software version or calibration that the vehicle's main controller cannot reconcile with its own programming. The computer has detected a mismatch in software compatibility over the controller area network (CAN) bus, not a hardware failure of the heater itself.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Network	Generic (all makes)	Low	Professional	Software and configuration mismatches

Symptoms you may notice

- Auxiliary heater may fail to activate or may run only at default settings
- Heating performance in cold weather is reduced or inconsistent
- A warning light or message on the dashboard indicating a heater system fault
- Remote start or pre-conditioning features may not function
- Often no symptoms besides the warning light, with the heater working normally
- Other unrelated modules may log communication codes if the bus is disturbed

Common causes, most likely first

- Auxiliary heater control module has outdated or incorrect software installed
- Main controller (e.g., body control module) was reprogrammed without updating the heater module
- Aftermarket or replacement heater module with a different calibration than the original
- Corrupted software in either the heater module or the gateway module
- Low battery voltage during a programming event causing incomplete software installation
- Wiring or connector issues on the CAN bus that intermittently corrupt software handshake messages
- Failed heater control module internal memory or processor



How to diagnose and fix it

- 1 Connect a scan tool and record all stored codes in every module, then clear codes and recheck to see if U0325 returns immediately
- 2 Verify battery voltage and charging system health, as low voltage can cause false software mismatch codes
- 3 Check for technical service bulletins (TSBs) or software updates for both the auxiliary heater module and the gateway/body control module
- 4 Reprogram or flash the auxiliary heater control module with the latest manufacturer software using a capable scan tool
- 5 Inspect CAN bus wiring and connectors at the heater module for corrosion, loose pins, or chafing
- 6 If reprogramming fails or the code persists, substitute a known-good module of the same part number and software level for testing
- 7 Perform a full system scan and clear all codes after repair, then road-test with the heater operating to confirm the code does not return

Software mismatch is not a broken heater

- Many technicians replace the auxiliary heater module when the real fix is a software update to the gateway or body control module that restores compatibility.
- A battery that drops below a threshold during a programming event can leave the heater module with corrupted software that sets U0325 even though the hardware is fine.
- Aftermarket replacement modules often ship with a generic calibration that does not match the vehicle's configuration, triggering this code immediately after installation.
- U0325 can be set by a gateway module that has lost its configuration data, so always check the gateway for stored faults before condemning the heater module.
- In some vehicles, the auxiliary heater is part of a climate control subnetwork, and a fault in the subnetwork wiring can mimic a software incompatibility.

Can I keep driving with U0325?

The vehicle remains safe to drive because the auxiliary heater is a comfort system, but you should avoid relying on it for cabin warmth or windshield defrosting in cold weather until the fault is corrected. Do not attempt long trips in freezing conditions without confirming the heater works, and avoid clearing the code repeatedly without diagnosis.

Tools that help

- OBD-II scan tool with manufacturer-specific software and reprogramming capability
- Digital multimeter for battery and wiring checks
- CAN bus interface or breakout box for signal testing
- Battery charger or power supply to maintain voltage during programming
- Trim removal tools to access the auxiliary heater module



Reading U0325

- U** Network: communication between the vehicle's control modules.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 3** Software and configuration mismatches.
- 25** The exact fault within that area.

Often seen with

U0100 Lost Communication With ECM/PCM A · **U0140** Lost Communication With Instrument Panel Cluster · **U0164** Lost Communication With HVAC Control Module · **U0324** Software Incompatibility with HVAC Control Module · **U0326** Software Incompatibility with Vehicle Immobilizer Control Mo

See it working

Watch the animated explainer [Four-Stroke Engine Cutaway: Intake to Exhaust](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/u0325/>

