

FORD · POWERTRAIN

P1393

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1393 · Ford

Glow Plug Circuit Low Input Bank 2

The powertrain control module (PCM) monitors the glow plug circuit for bank 2 and detects a low input voltage, meaning the circuit is drawing excessive current or the voltage signal is below the expected threshold. This typically indicates a short to ground, a failed glow plug, or a wiring fault in the bank 2 glow plug circuit, which can prevent proper cold-start glow plug operation.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Ford specific	Medium	Intermediate	Ignition system and misfire

Symptoms you may notice

- Illuminated check engine light or glow plug warning lamp
- Hard starting or rough idle when the engine is cold
- Excessive white smoke from the exhaust after a cold start
- Reduced engine performance and poor fuel economy during warm-up
- Often no symptoms besides the warning light, especially in mild weather

Common causes, most likely first

- 1 Failed glow plug on bank 2 (short internally or to ground)
- 2 Chafed or shorted glow plug wiring harness on bank 2
- 3 Corroded or loose glow plug connector causing high resistance
- 4 Faulty glow plug control module (GPCM) internal short
- 5 PCM driver circuit fault for bank 2 glow plug control
- 6 Moisture intrusion in the glow plug circuit connectors

How to diagnose and fix it

- 1 Scan all modules for related codes and record freeze-frame data to confirm the fault conditions
- 2 Visually inspect bank 2 glow plug harness and connectors for chafing, corrosion, or loose pins
- 3 Measure resistance of each bank 2 glow plug and compare to specification to identify a shorted plug
- 4 Disconnect the glow plug control module and check for short to ground on the bank 2 control circuit
- 5 Test the glow plug control module operation with a bidirectional scan tool or by back-probing the circuit
- 6 Repair or replace the faulty glow plug, harness section, or control module as diagnosed
- 7 Clear codes and perform a cold-start verification to confirm the repair



What Ford techs check before replacing glow plugs

- A low input code often results from a shorted glow plug rather than an open circuit, so resistance testing each plug is critical before condemning the control module.
- The glow plug control module on Ford diesels can set a bank-specific low input code even when the fault lies in the shared power or ground circuit, so check those connections first.
- Chafed harness sections near the valve cover or exhaust manifold are a common hidden cause that visual inspection from above may miss.
- This code can be set by a weak battery or charging system issue that causes low voltage during glow plug operation, so verify battery health before parts replacement.
- After repairs, some Ford models require a glow plug adaptation reset or a drive cycle to clear the code permanently.

Can I keep driving with P1393?

You can usually drive the vehicle, but cold starting may be difficult and extended driving with a faulty glow plug circuit can lead to misfires and increased emissions. Avoid heavy loads or long idling until the fault is repaired, and address it promptly to prevent further damage to the glow plug control system.

Tools that help

- OBD-II scan tool with bidirectional control and live data
- Digital multimeter with resistance and voltage measurement
- Glow plug socket and torque wrench
- Wiring diagram and service information for the specific Ford model
- Basic hand tools for harness inspection and connector removal

Reading P1393

P	Powertrain: engine, transmission and emissions.
1	Manufacturer-specific code (Ford): its meaning depends on the make.
3	Ignition system and misfire.
93	The exact fault within that area.

Often seen with

P1392 CMP Sensor Bank 2 Open Circuit Short To B+ · **P1394** Ignition Coil Power Output Stage 2 Malfunction · **P1392** Variable Valve Timing Solenoid A Circuit Low Input · **P1392** Wheel Speed Sensor 1 G-Sensor Circuit Low Voltage · **P1394** Wheel Speed Sensor 1 G-Sensor Circuit Intermittent · **P1392** Glow Plug Circuit High Input Bank 1 · **P1394** Glow Plug Circuit High Input Bank 2 · **P1392** Wheel Speed Sensor 1, G-Sensor Circuit Low Voltage · **P1394** Wheel Speed Sensor 1, G-Sensor Circuit Intermittent · **P0380** Glow Plug/Heater Circuit A Malfunction · **P0670** Glow Plug Module Control Circuit · **P0672** Cylinder 2 Glow Plug Circuit



See it working

Watch the animated explainer [How an Elevator Works: Traction Lift in X-Ray](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/ford-p1393/>

