

FORD · POWERTRAIN

P1482

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1482 · Ford

SCP (Standard Corporate Protocol) Communication Bus Malfunction

P1482 indicates that the Powertrain Control Module (PCM) has detected a fault on the Standard Corporate Protocol (SCP) communication bus, which is Ford's in-vehicle network for sharing data between modules. The PCM monitors the bus for proper message traffic and sets this code when it cannot reliably communicate with one or more other modules over the SCP network.

SYSTEM

Powertrain

CODE TYPE

Ford specific

SEVERITY

Medium

FIX DIFFICULTY

Professional

AREA

Auxiliary emission controls

Symptoms you may notice

- Illuminated Check Engine Light (CEL) on the instrument cluster
- Often no symptoms besides the warning light, with the vehicle running normally
- Multiple warning lights (ABS, airbag, etc.) if other modules are affected
- Intermittent or complete failure of dashboard gauges and indicators
- Rough running or stalling if the PCM cannot receive critical data from other modules
- No-start condition in severe cases where communication is completely lost

Common causes, most likely first

- 1 Damaged or chafed wiring in the SCP bus (circuits 914 and 915) due to flexing, heat, or rodent damage
- 2 Corroded or loose connectors at the Data Link Connector (DLC) or at any module on the bus
- 3 Failed or intermittent termination resistor inside one of the modules on the SCP network
- 4 Faulty module (e.g., instrument cluster, ABS, or PCM itself) pulling the bus voltage down
- 5 Aftermarket electronic devices improperly tapped into the SCP wiring
- 6 Water intrusion into a module or connector causing short circuits
- 7 Poor ground connection for one or more modules on the network



How to diagnose and fix it

- 1 Perform a visual inspection of the SCP wiring and connectors at the DLC and along the harness for damage or corrosion
- 2 Use a scan tool to check for communication with all modules and record which ones are not responding
- 3 Measure resistance between SCP bus circuits (pins 2 and 10 of the DLC) with the battery disconnected; should be around 60 ohms if termination is correct
- 4 Check for short to ground or power on each SCP circuit using a multimeter and wiring diagram
- 5 Disconnect modules one by one to see if the bus voltage returns to normal, isolating the faulty module
- 6 Repair or replace damaged wiring, connectors, or the faulty module as needed
- 7 Clear codes and verify communication is restored with a scan tool

SCP bus faults often misdiagnosed as module failures

- A common mistake is to replace the PCM or instrument cluster when the real problem is a chafed wire in the door jamb or under the hood.
The SCP bus is sensitive to aftermarket accessories; a poorly installed remote starter or alarm can disrupt communication and set P1482.
- Intermittent P1482 codes can be caused by a failing alternator or bad ground, leading to voltage spikes that corrupt bus messages.
- Always check for technical service bulletins (TSBs) for the specific Ford model; some vehicles have known harness routing issues that cause this code.
The code does not always mean the bus is dead; it can set from a single missed message, so a thorough road test with a scan tool recording live data is essential.

Can I keep driving with P1482?

If the vehicle runs normally and only the Check Engine Light is on, you can drive cautiously to a repair shop, but avoid long trips or towing. If there are drivability issues, multiple warning lights, or the engine stalls, stop driving and have the vehicle towed to prevent unsafe conditions.

Tools that help

- OBD-II scan tool with live data and module communication capabilities
- Digital multimeter (DMM) with resistance and voltage measurement
- Wiring diagram for the specific Ford vehicle
- Terminal test kit and jumper wires
- Socket set and trim removal tools for accessing modules and harnesses



Reading P1482

- P** Powertrain: engine, transmission and emissions.
- 1** Manufacturer-specific code (Ford): its meaning depends on the make.
- 4** Auxiliary emission controls.
- 82** The exact fault within that area.

Often seen with

P1483 Engine Cooling System Performance · **P1484** Catalytic Converter Overheat Detected · **P1483** Power to Cooling Fan Exceeded Normal Draw · **P1484** Variable Load Control Module Pin 1 Open · **P1483** Catalyst Temperature Sensor Circuit Shorted High · **P1484** Catalytic Converter Overheat Detected · **P0562** System Voltage Low · **U0100** Lost Communication With ECM/PCM A · **U0155** Lost Communication With Body Control Module

See it working

Watch the animated explainer [Excavator Simulator: Hydraulics You Can Operate](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/ford-p1482/>

