

HONDA · POWERTRAIN

P1677

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1677 · Honda

Traction Control System FI Data Line Failure

P1677 on Honda vehicles indicates that the traction control system (TCS) has detected a failure in the serial data line that shares fuel injection (FI) information between the engine control module (ECM) and the TCS controller. The code is stored when the TCS module cannot reliably receive or interpret the FI data stream, often due to a communication bus fault rather than a mechanical traction control problem.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Honda specific	Medium	Intermediate	Computer and output circuits

Symptoms you may notice

- Traction control system (TCS) warning light illuminated on the dashboard
- Check Engine Light (CEL) may also be on, depending on the model
- TCS may be disabled, reducing traction assistance in slippery conditions
- Intermittent TCS activation or false engagement without wheel slip
- Often no other noticeable symptoms besides the warning light
- Rough running or hesitation if the FI data line fault affects engine management

Common causes, most likely first

- 1 Damaged or corroded wiring in the FI data line between the ECM and TCS module
- 2 Poor electrical connection at the ECM or TCS module connectors
- 3 Faulty TCS control module (internal communication error)
- 4 Faulty ECM (less common, but possible)
- 5 Electrical interference from aftermarket accessories or poor grounds
- 6 Blown fuse or relay supplying power to the TCS module
- 7 CAN bus or serial data line shorted to ground or power



How to diagnose and fix it

- 1 Inspect the TCS warning light and scan all modules for related codes to confirm P1677 is current
- 2 Check battery voltage and ground connections, as low voltage can cause communication errors
- 3 Visually inspect the FI data line wiring and connectors between the ECM and TCS module for damage or corrosion
- 4 Perform a continuity and resistance test on the data line to rule out open or short circuits
- 5 Check for aftermarket electronic accessories that may interfere with the data bus and disconnect them temporarily
- 6 If wiring is intact, substitute a known-good TCS module or ECM to isolate the faulty unit
- 7 Repair or replace damaged wiring or connectors, then clear codes and verify communication with a scan tool

Data line faults often misdiagnosed as module failure

- A common mistake is replacing the TCS module or ECM without first checking the data line wiring, which is often the real culprit.
The FI data line is a serial communication bus, so a single chafed wire can disrupt communication between multiple modules, not just the TCS.
- Aftermarket alarms, remote starters, or audio equipment tapped into the wiring can introduce interference that sets P1677 intermittently.
- On some Honda models, a weak battery or failing alternator can cause voltage drops that trigger communication codes like P1677 without any wiring fault.

P1677 does not always mean the traction control system itself is broken; it can be a symptom of an engine management issue affecting the data stream.

Can I keep driving with P1677?

You can usually continue driving if the only symptom is the TCS light, but be aware that traction control may be disabled, so drive cautiously in wet or slippery conditions. If the Check Engine Light is also on or you notice performance issues, have the vehicle diagnosed promptly to avoid worsening electrical problems.

Tools that help

- OBD-II scan tool with Honda-specific software
- Digital multimeter
- Wiring diagram for the specific Honda model
- Socket set and trim removal tools
- Electrical contact cleaner



Reading P1677

- P** Powertrain: engine, transmission and emissions.
- 1** Manufacturer-specific code (Honda): its meaning depends on the make.
- 6** Computer and output circuits.
- 77** The exact fault within that area.

Often seen with

P1676 Drive By Wire MIL Circuit Electrical Malfunction · **P1678** Drive By Wire MIL Circuit Short To Ground · **P1676** Traction Control System FI Data Line No Signal · **P1678** FPTDR Signal Line Failure · **P1676** Traction Control System FI Data Line No Signal · **P1678** FPTDR Signal Line Failure · **P1676** PCM Fault / EVAP Canister Vent Valve · **P1678** FPTDR Signal Line Failure · **P0500** Vehicle Speed Sensor Malfunction · **U0100** Lost Communication With ECM/PCM A · **U0122** Lost Communication With Vehicle Dynamics Control Module

See it working

Watch the animated explainer [How a Knock Sensor Works: Spark Timing and Octane](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/honda-p1677/>

