

NISSAN · POWERTRAIN

P1676

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1676 · Nissan

Traction Control System FI Data Line No Signal

P1676 on Nissan vehicles means the traction control system (TCS) module is not receiving data over its dedicated serial communication line, so the computer has detected a complete loss of signal from the FI (fuel injection) data circuit. This line normally carries throttle, engine speed, and brake information between the engine control module and the TCS controller, and without it the traction control system cannot intervene to prevent wheel spin.

SYSTEM

Powertrain

CODE TYPE

Nissan specific

SEVERITY

Medium

FIX DIFFICULTY

Intermediate

AREA

Computer and output circuits

Symptoms you may notice

- Traction control warning light illuminated steadily on the dashboard
- Vehicle Stability Assist (VSA) or slip indicator light also on in many models
- Traction control system disabled, allowing wheel spin on slippery surfaces
- Often no symptoms besides the warning light, with normal engine performance
- Intermittent warning light that comes and goes over bumps or in wet weather
- Cruise control may be inoperative on some Nissan models as a fail-safe

Common causes, most likely first

- 1 Damaged or corroded wiring in the FI data line between the ECM and TCS module
- 2 Loose or contaminated connector pins at either the ECM or TCS module
- 3 Failed TCS control module (internal communication fault)
- 4 Failed engine control module (ECM) not transmitting data on the line
- 5 Open circuit or short to ground/voltage in the data wire
- 6 Poor ground connection shared by the TCS and ECM circuits



How to diagnose and fix it

- 1 Connect a scan tool and confirm P1676 is current, then check for other communication codes in the TCS and ECM modules
- 2 Inspect the FI data line wiring and connectors between the ECM and TCS module for corrosion, chafing, or loose pins
- 3 Measure resistance and continuity on the data line with a multimeter, comparing to factory specifications
- 4 Check for shorts to ground or battery voltage on the data wire with the ignition on and off
- 5 Verify the TCS module and ECM grounds are clean and tight, and perform a voltage drop test
- 6 If wiring and grounds are good, substitute a known-good TCS module and recheck for the code
- 7 After repair, clear codes and perform a road test to confirm the traction control system operates and the light stays off

Why the FI data line fails on Nissans

- The FI data line is a dedicated serial link, not the high-speed CAN bus, so a P1676 does not always set communication codes in other modules and can be missed by a generic scan tool.
- Corrosion inside the connector at the TCS module is a common cause on older Nissan models, especially where the module is mounted low in the engine bay or behind a wheel arch liner.
- A weak or failing battery or charging system can cause intermittent no-signal faults on this line, so always check battery voltage and alternator output before condemning a module.
- Aftermarket electrical accessories tapped into the wiring near the TCS or ECM can introduce noise or a partial short that sets P1676 without any visible damage.
- Some Nissan models require a specific relearn or calibration procedure after replacing the TCS module, and skipping it will leave the warning light on even with good wiring.

Can I keep driving with P1676?

You can usually drive the vehicle with P1676 because the engine and brakes remain functional, but traction control and stability assist are disabled, so avoid slippery roads, heavy acceleration, and towing until the fault is repaired. If the warning light is accompanied by an engine misfire or brake warning, stop driving and have the vehicle inspected immediately.

Tools that help

- OBD-II scan tool with Nissan-specific software
- Digital multimeter
- Wiring diagram for the specific Nissan model
- Back probe pins or breakout box
- Contact cleaner and dielectric grease
- Basic hand tools for trim and connector access



Reading P1676

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

Often seen with

P1677 Drive By Wire MIL Circuit Short To B+ · **P1677** Traction Control System FI Data Line Failure · **P1677** Traction Control System FI Data Line Failure · **P1675** EVAP Vent Solenoid Control Circuit · **P1677** Driver 4 Line 7 · **P0600** Serial Communication Link Malfunction · **P0605** Internal Control Module ROM Error

See it working

Watch the animated explainer [How a Fuel Injector Works: Pulse Width and Spray](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/nissan-p1676/>

