

NISSAN · POWERTRAIN

P1672

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1672 · Nissan

A/T FI Data Line Failure

P1672 on Nissan vehicles indicates a failure in the serial data communication line between the automatic transmission control module and the engine control module, specifically the A/T FI data line. The engine computer has detected that it cannot reliably exchange information with the transmission computer over this dedicated link, which is used for torque management and shift coordination.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Nissan specific	Medium	Professional	Computer and output circuits

Symptoms you may notice

- Illumination of the check engine light or service engine soon light on the dashboard.
- Often no symptoms besides the warning light, with the vehicle driving normally.
- Harsh or erratic automatic transmission shifting in some cases.
- Reduced engine power or limp mode if the communication failure affects torque reduction requests.
- Transmission may default to a fixed gear or fail to downshift properly during acceleration.
- Intermittent stalling or poor idle quality if the data line corruption affects engine load signals.

Common causes, most likely first

- 1 Damaged or corroded wiring in the A/T FI data line between the ECM and TCM, often due to chafing or rodent damage.
- 2 Loose or corroded electrical connectors at the ECM or TCM harness.
- 3 Failed transmission control module (TCM) internal communication circuit.
- 4 Failed engine control module (ECM) communication driver for the A/T FI line.
- 5 Poor ground connection for the TCM or ECM causing voltage reference shifts on the data line.
- 6 Aftermarket electrical accessories improperly tapped into the data circuit causing interference.
- 7 Battery or charging system issues leading to low voltage that disrupts serial data communication.



How to diagnose and fix it

- 1 Verify battery voltage and charging system output, as low voltage can cause communication codes; recharge or replace battery if needed.
- 2 Inspect the A/T FI data line wiring and connectors between the ECM and TCM for damage, corrosion, or loose pins; repair or repin as necessary.
- 3 Check and clean the ground connections for the ECM and TCM to ensure proper reference voltage.
- 4 Use a scan tool to perform a bidirectional communication test between the ECM and TCM to confirm the fault is active.
- 5 If wiring and grounds are good, substitute a known-good TCM to see if the code clears, then replace if confirmed faulty.
- 6 If the TCM does not resolve the issue, test or replace the ECM as the communication driver may be faulty.
- 7 After repair, clear the code and perform a road test with scan tool monitoring to confirm the data line is functioning and no pending codes return.

Data line faults that mimic transmission failure

- A P1672 code often sets without any driveability complaint, leading many to replace the transmission unnecessarily when the real issue is a chafed wire in the harness.
- The A/T FI data line is a dedicated serial link, not the CAN bus, so a failure here will not always set U-codes and may be overlooked by generic scan tools.
- Corrosion inside the TCM connector pins is a common cause on older Nissan models, especially in areas with road salt exposure.
- Aftermarket remote starters or alarm systems tapped into the data line can introduce noise that corrupts communication and sets P1672 intermittently.
- A weak battery or failing alternator can cause this code to set because the TCM and ECM may not communicate reliably during cranking voltage drops.

Can I keep driving with P1672?

You can generally continue driving if the vehicle runs and shifts normally, but avoid heavy acceleration or towing until the fault is repaired because the transmission may not receive proper torque reduction signals. If the transmission shifts harshly or enters limp mode, seek service promptly to prevent internal damage.

Tools that help

- OBD-II scan tool with Nissan-specific software for bidirectional communication tests
- Digital multimeter for voltage and resistance checks on wiring
- Wiring diagram for the A/T FI data line circuit
- Terminal pick and crimping tools for connector repair
- Known-good TCM for substitution testing



Reading P1672

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

Often seen with

P1671 A/T FI Data Line No Signal · **P1671** A/T FI Data Line No Signal · **P1671** MIL Circuit Fault · **P0600** Serial Communication Link Malfunction · **P0700** Transmission Control System Malfunction · **P0720** Output Speed Sensor Circuit Malfunction · **U0100** Lost Communication With ECM/PCM A

See it working

Watch the animated explainer [How Variable Valve Timing Works: Cam Phaser and VVT Solenoid](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/nissan-p1672/>

