

GENERIC · POWERTRAIN

P0614

OBD-II TROUBLE CODE

P0614

ECM / TCM Incompatible

P0614 means the engine control module (ECM) and the transmission control module (TCM) are not communicating compatible software or calibration data with each other. The ECM has detected that the TCM's identification or calibration does not match what the ECM expects for this vehicle configuration, so it flags an incompatibility fault.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Medium	Professional	Computer and output circuits

Symptoms you may notice

- Illuminated check engine light, often with no other noticeable symptoms
- Transmission stuck in a default or limp mode with harsh or delayed shifts
- Reduced engine power or a limp-home strategy engaged
- No communication with the TCM when scanning modules, or the TCM missing from the module list
- Erratic or inconsistent shift quality that does not match driving conditions
- Multiple unrelated communication or module configuration codes stored alongside P0614

Common causes, most likely first

- 1 TCM replaced or reflashed with software that does not match the ECM calibration
- 2 ECM replaced or reprogrammed without matching the TCM software
- 3 Corrupted or incomplete flash programming event on either module
- 4 Aftermarket tuner or performance calibration loaded into one module but not the other
- 5 Wiring fault or poor connection on the controller area network (CAN) bus between ECM and TCM
- 6 Low battery voltage during a programming event causing a partial or failed flash
- 7 Incorrect module installed from a different vehicle or configuration

How to diagnose and fix it

- 1 Scan all modules and record the software part numbers and calibration IDs from both the ECM and TCM
- 2 Check battery voltage and condition, then clear the code and verify whether it returns immediately
- 3 Inspect the CAN bus wiring and connectors between the ECM and TCM for damage, corrosion, or loose pins
- 4 Verify that both modules carry the correct calibration for the vehicle's VIN and configuration using a factory scan tool
- 5 Reprogram or reflash the mismatched module with the correct factory software
- 6 If programming fails, perform a guided diagnostic for module replacement or configuration
- 7 After repair, clear codes, perform a relearn or adaptation drive cycle, and confirm no codes return



Why a simple reflash often fixes P0614

- This code frequently appears after a battery replacement or jump-start because low voltage during a module wake-up or programming event can corrupt calibration data.
- A common misdiagnosis is replacing the TCM when the real fault is a mismatched or corrupted ECM calibration, so always compare software IDs on both modules before condemning parts.
- Aftermarket performance tuners that flash only the ECM can set P0614 because the TCM still expects the factory calibration handshake.
- P0614 can be set by a CAN bus communication fault that prevents the modules from exchanging calibration data, so do not overlook wiring and connector checks.
- Some vehicles require a specific sequence of module programming and configuration after replacement, and skipping the TCM configuration step will immediately reset this code.

Can I keep driving with P0614?

You can usually drive the vehicle to a repair shop, but expect degraded transmission behavior and possible limp mode. Avoid heavy acceleration, towing, or long highway trips until the mismatch is corrected, because the transmission may not shift properly.

Tools that help

- Factory-level scan tool capable of module programming and calibration comparison
- Digital multimeter for battery and wiring checks
- CAN bus breakout box or oscilloscope for network diagnostics
- Battery charger or power supply to maintain voltage during programming
- Vehicle service information for correct calibration and programming procedures

Reading P0614

P	Powertrain: engine, transmission and emissions.
0	Generic (SAE) code: it means the same thing on every OBD-II vehicle.
6	Computer and output circuits.
14	The exact fault within that area.

Often seen with

P0600 Serial Communication Link Malfunction · **P0601** Internal Control Module Memory Checksum Error · **P0602** Control Module Programming Error · **P0606** PCM Processor Fault · **U0100** Lost Communication With ECM/PCM A



See it working

Watch the animated explainer [How Crank and Cam Position Sensors Work](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p0614/>

