

GENERIC · POWERTRAIN

P211C

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P211C

Throttle Actuator B Control Motor Current Range/Performance

P211C indicates that the engine control module (ECM) has detected an abnormal current profile in the throttle actuator control motor for bank B, which is typically the second throttle body in a dual-throttle system. The ECM monitors the motor's electrical current during commanded movements and sets this code when the current falls outside the expected range or does not match the commanded throttle position.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Medium	Intermediate	Fuel and air metering

Symptoms you may notice

- Illumination of the check engine light, often with no other noticeable symptoms
- Reduced engine power or limp mode, limiting vehicle speed
- A throttle pedal that feels unresponsive or requires more effort to accelerate
- Rough idle or stalling when coming to a stop
- Inconsistent engine speed or surging during steady cruising

Common causes, most likely first

- 1 Carbon buildup or mechanical binding in the throttle body, causing the motor to draw excessive current
- 2 Wiring harness damage (shorts, opens, or corrosion) between the ECM and the throttle actuator motor
- 3 Faulty throttle actuator motor (worn brushes, shorted windings, or internal damage)
- 4 Defective throttle position sensor or accelerator pedal position sensor providing incorrect feedback
- 5 ECM software issue or internal driver circuit failure
- 6 Poor electrical connections at the throttle body or ECM connectors



How to diagnose and fix it

- 1 Perform a visual inspection of the throttle body, wiring, and connectors for obvious damage or corrosion
- 2 Use a scan tool to command the throttle actuator and observe motor current and position feedback for smooth operation
- 3 Clean the throttle body with approved cleaner to remove carbon deposits and retest
- 4 Measure resistance and check for shorts or opens in the motor circuit and compare to manufacturer specifications
- 5 Substitute a known-good throttle body or actuator motor to see if the code clears
- 6 Check for technical service bulletins (TSBs) or software updates for the ECM that address throttle actuator current range issues
- 7 If all else fails, replace the throttle body assembly and perform a relearn procedure

Common Oversights in P211C Diagnosis

- A dirty throttle body is a frequent culprit that mimics a failed actuator motor, so cleaning should always precede replacement.
- The code can be set by a weak battery or charging system issue that causes voltage drops affecting motor current, so check battery health first.
- In dual-throttle systems, bank B may refer to the second throttle body, and a fault there can be masked by the primary throttle's operation.
- After any repair, a throttle relearn or adaptation reset is often required; skipping this step can cause the code to return immediately.
- Wiring problems near the throttle body, such as chafed wires from engine vibration, are often overlooked during visual inspection.

Can I keep driving with P211C?

If the vehicle is in limp mode with severely reduced power, driving is not recommended except to reach a safe location. Otherwise, you may drive cautiously to a repair shop, but avoid aggressive acceleration or high speeds, as the throttle response may be unpredictable.

Tools that help

- OBD-II scan tool with bidirectional control and live data
- Digital multimeter
- Throttle body cleaner and soft brush
- Basic hand tools (screwdrivers, sockets, wrenches)
- Wiring diagram for the specific vehicle



Reading P211C

- P** Powertrain: engine, transmission and emissions.
- 2** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 1** Fuel and air metering.
- 1C** The exact fault within that area.

Often seen with

P2101 Throttle Actuator Control Motor Circuit Range/Performance · **P211D** Throttle Actuator B Control Throttle Body Range/Performance · **P211E** Throttle Actuator B Control Module Processor · **P211F** Throttle Actuator B Control Module Performance · **P2135** Throttle/Pedal Position Sensor A/B Voltage Correlation

See it working

Watch the animated explainer [How a Wideband Air-Fuel Sensor Works](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p211c/>

