

GENERIC · POWERTRAIN

P08CC

OBD-II TROUBLE CODE

P08CC

Shift Solenoid J

P08CC indicates that the transmission control module (TCM) has detected an electrical fault in the circuit for shift solenoid J, which is one of the solenoids that controls hydraulic pressure for a specific gear shift. The TCM monitors the solenoid's current draw and expected response, and when the signal is out of range or the solenoid fails to actuate as commanded, it stores this code and typically illuminates the check engine light.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	Generic (all makes)	Medium	Professional	Transmission

Symptoms you may notice

- Check engine light or transmission warning light illuminated
- Harsh or delayed shifts, especially when engaging the affected gear
- Transmission may enter limp mode and stay in a single gear
- Slipping or flaring during gear changes
- Often no symptoms besides the warning light, especially if the fault is intermittent

Common causes, most likely first

- Faulty shift solenoid J internally shorted or open
- Damaged or corroded wiring harness or connector at the solenoid
- Poor electrical connection at the TCM or transmission case connector
- Low or contaminated transmission fluid causing solenoid malfunction
- Valve body issues or stuck valves affecting solenoid J operation
- TCM software glitch or internal fault (less common)

How to diagnose and fix it

- Scan all modules for stored and pending codes, and record freeze frame data
- Check transmission fluid level and condition; top off or replace if contaminated
- Inspect the solenoid J circuit wiring and connectors for damage, corrosion, or loose pins
- Measure resistance of solenoid J at the transmission connector and compare to manufacturer specification
- Test solenoid J operation with a bidirectional scan tool or apply voltage directly to verify actuation
- If solenoid is faulty, replace it and clear codes; perform transmission adaptive relearn if required
- If wiring is faulty, repair or replace the affected harness section and retest



Don't replace the solenoid before these checks

- A low battery or charging system issue can cause the TCM to set false solenoid codes, so always verify battery voltage and ground connections first.
- Transmission fluid that is dark or smells burnt often indicates internal wear that damages solenoids, so replacing the solenoid without addressing fluid condition may lead to repeat failure.
- The solenoid may test good at room temperature but fail when hot; performing resistance tests both cold and after warming the transmission can reveal intermittent faults.
- Corrosion at the transmission case connector is a common hidden cause, especially on vehicles driven in wet or salty conditions, and is often overlooked during diagnosis.
- Some vehicles require a transmission adaptive relearn after solenoid replacement; skipping this step can cause harsh shifts that mimic a recurring fault.

Can I keep driving with P08CC?

You can usually drive the vehicle to a repair shop if the transmission still shifts, but avoid aggressive acceleration or heavy loads because limp mode may engage suddenly. If the transmission slips severely or refuses to engage gears, stop driving and arrange a tow to prevent further damage.

Tools that help

- OBD-II scan tool with bidirectional control and transmission module access
- Digital multimeter for resistance and voltage measurements
- Transmission fluid level gauge and fluid pump
- Socket and wrench set for connector and pan removal
- Manufacturer service information for solenoid resistance specifications and torque values

Reading P08CC

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

Often seen with

P0700 Transmission Control System Malfunction · **P0715** Input/Turbine Speed Sensor Circuit Malfunction · **P08CB** Pressure Control Solenoid M Control Circuit High · **P08CD** Shift Solenoid J Performance/Stuck Off · **P08CE** Shift Solenoid J Stuck On



See it working

Watch the animated explainer [How an Automatic Transmission Works, Gear by Gear](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/p08cc/>

