

GENERIC · CHASSIS

C0902

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

C0902

TPMS Sensor 2 Battery

C0902 indicates that the tire pressure monitoring system (TPMS) has detected a low battery condition in the sensor assigned to position 2, which is typically the front right tire on most vehicles. The computer monitors the sensor's radio frequency transmissions and battery status, and it sets this code when the battery voltage or signal strength falls below the expected threshold.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Chassis	Generic (all makes)	Low	Intermediate	Brakes, steering and suspension

Symptoms you may notice

- Tire pressure warning light illuminated on the dashboard
- Often no symptoms besides the warning light
- Intermittent or missing tire pressure readings for one wheel
- A message on the driver information center indicating a sensor fault
- The TPMS light may flash for about a minute before staying on
- Other tire pressure sensors may still report normally

Common causes, most likely first

- 1 Depleted battery inside the TPMS sensor at position 2
- 2 Failed TPMS sensor due to age or internal damage
- 3 Corroded or damaged sensor valve stem causing poor electrical contact
- 4 Radio frequency interference from aftermarket electronics
- 5 A faulty TPMS receiver or antenna module
- 6 Water or debris intrusion into the sensor housing
- 7 Incorrect sensor installed or sensor not properly initialized

How to diagnose and fix it

- 1 Use a TPMS scan tool to read the sensor's battery status and confirm the low battery condition
- 2 Check the sensor's physical condition for corrosion, damage, or a leaking valve stem
- 3 Verify that the sensor is the correct part for the vehicle and properly seated
- 4 Perform a TPMS relearn procedure to ensure the sensor is recognized
- 5 Replace the TPMS sensor at position 2 with a new or OEM-equivalent unit
- 6 Clear the code and test-drive the vehicle to verify the repair
- 7 If the code persists, inspect the TPMS receiver and wiring for faults



What a TPMS battery code really means

- A low battery in a TPMS sensor often causes intermittent signal loss before the code sets, so the warning light may come and go for weeks.
- Many TPMS sensors have a sealed battery that cannot be replaced separately, so the entire sensor must be replaced when the battery dies.
- Cold weather can temporarily reduce battery voltage and trigger this code, but the code will return once the battery is truly weak.
- Aftermarket wheels or valve stem caps can block radio signals and mimic a low battery code, so check for obstructions before replacing the sensor.
- Some vehicles require a specific TPMS reset tool or scan tool to relearn new sensor IDs, and skipping this step will keep the code active.

Can I keep driving with C0902?

The vehicle remains safe to drive because the tire pressure monitoring system is a convenience feature, but you should check tire pressures manually with a gauge until the sensor is repaired. Avoid relying on the TPMS warning light for pressure monitoring, and address the code soon to maintain full system function.

Tools that help

- TPMS scan tool
- Tire pressure gauge
- Valve stem core tool
- OBD-II scanner
- Torque wrench

Reading C0902

C	Chassis: brakes, steering and suspension.
0	Generic (SAE) code: it means the same thing on every OBD-II vehicle.
9	Brakes, steering and suspension.
02	The exact fault within that area.

Often seen with

C0750 Cruise Control Brake Switch · **C0900** TPMS Sensor 1 Battery · **C0901** TPMS Sensor 1 Position Performance · **C0903** TPMS Sensor 2 Position Performance



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/c0902/>

