



STAR ONLINE PUBLICATION



Case Number: S2422000001 Rev. D

Release Date: July 2025

Symptom/Vehicle Issue: Tire Pressure Monitor (TPM) Service Information. TPM Lamp On.

Customer Complaint/Technician Observation: Vehicle may have diagnostic trouble codes (DTCs) C1501 C1502 C1503 C1504 C1501-31 C1502-31 C1503-31 C1504-31 tire pressure sensor mechanical failure/no signal. TPM lamp may be on. Condition could be intermittent or active.

Discussion: The customer may state the low tire warning lamp is ON with any of the above DTCs. Verify tire pressure using a handheld pressure gauge/tool. Then, inspect the wheels for physical damage including excessive or uneven wear like cupping and/or feathering. Address any damage to the wheels and tires before proceeding with the rest of the inspection. Using the ATEQ TPM RKE tester verify the sensor locations to the vehicle by performing a "sniff test". Once you have confirmed the sensors are working properly and they have been properly learned, look for aftermarket equipment. If aftermarket equipment that it is likely to interfere with RF (radio frequency) is detected, advise the customer to remove it. Once removed, confirm sensors are working properly with a drive test. If no aftermarket equipment is detected, proceed with the normal service procedure. Ask the owner if the tire lamp lights up in certain situations, for example at night or towing a trailer. Below is a list of items that could potentially interfere or block TPM signals. Keep them in mind when normal diagnostics do not resolve a TPM concern.

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechConnect, eCONTACT or Service Library entry if no solution is found.



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Electrical accessories.

LED lighting (may appear factory but contain non factory LED bulbs).

RV equipment.

Rear cameras or back up cameras (Aftermarket).

Toll road Transponder.

Transceivers/radios such as GMRS/FRS/CB/Ham .

DC/AC inverters (Aftermarket).

Wiring loose grounds.

After market added wiring causing RF coupling.

Off road / Uplift modifications.

Aftermarket illuminated splash shields.

RFH antenna disconnected, damaged, broken, mis routed.

Another aftermarket device introducing RF noise around 433Mhz.

Aftermarket GPS devices.

Aftermarket Wi-Fi hotspots.

Aftermarket window tint (most contain metal).

Aftermarket rims with different valve stem location or sensor angle/clocking.

Non factory valve stem caps.

Damaged TPM sensors during a seasonal tire change (winter tires).

New tires installed that may be steel reinforced.

Engine misfires/secondary ignition induced into the wiring.

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