

MOBILETRON CX-S002

MOBILETRON MORESENSOR Signature Series 315MHz TPMS Tire Pressure Sensor Instruction Manual

Model: CX-S002 | Brand: MOBILETRON

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of the MOBILETRON MORESENSOR Signature Series 315MHz TPMS Tire Pressure Sensor, model CX-S002. This sensor is designed as a direct replacement for original equipment (OE) TPMS sensors in compatible vehicles, transmitting real-time tire pressure data to the vehicle's Electronic Control Unit (ECU).



Image 1.1: The MORESENSOR Signature Series 315MHz TPMS Sensor (Model CX-S002). This image displays the red sensor unit with its metal valve stem, indicating the 315MHz frequency and FCC ID.

2. VEHICLE COMPATIBILITY

The MORESENSOR Signature Series TPMS sensor (CX-S002) is pre-programmed for a wide range of European brand models. It is crucial to verify compatibility with your specific vehicle before installation. Refer to your vehicle's owner's manual or use a reliable part finder tool to confirm fitment.

Key compatibility considerations:

- **Radio Frequency:** Ensure your vehicle requires a 315MHz TPMS sensor.
- **Vehicle Details:** Confirm your vehicle's make, model, and year.
- **Production Year:** Verify your vehicle's production year for accurate sensor matching.

Example of compatible vehicles (not exhaustive):

- BMW (E46, E39, E60, E61, E38, E66 series)
- Audi (A6, Allroad Quattro, S8)
- Porsche (Cayenne)
- Mercedes-Benz (CL, E, S, SL, SLR McLaren series)
- Volkswagen (Phaeton)

For a complete list and to verify fitment, consult the product listing or contact customer support with your vehicle's information.

3. IMPORTANT SAFETY INFORMATION AND PRE-INSTALLATION CHECKS

TPMS sensor installation is not a do-it-yourself (DIY) task. It requires specialized knowledge, skills, and equipment. Only qualified and certified mechanics with appropriate tools should perform the installation and relearn procedures.

BEFORE YOU BUY



MUST READ THIS

Please make sure to read through given information below before placing your order

TPMS Sensor is not D-I-Y product

TPMS Sensors installation requires certain level of knowledge, skill and special equipment. Only Qualified/Certified mechanics with adequate tools should perform the task.

Pre-programmed = Direct-Fit ≠ Auto-Relearn

Pre-programmed TPMS sensors require pairing / re-learning procedure to communicate with car's ECU system to send information such as tire pressure, tire location and etc.

DO NOT install sensor if your tools can't read our sensors

Please do not attempt to start a sensor replacement job if your scan tool or OBD diagnostic tool cannot detect our sensor to display information such as sensor ID, frequency, battery status and PSI.

DISCLAIMER

Mobiletron and their distributors should not be held responsible for labor/service cost incurred from installation when TPMS failed to function due to improper handling, incompatible scan tool or lacking relearn information and experience. No reimbursement will be applicable if sensor replacement task is done by DIYer or uncertified mechanic/technician.

Mobiletron provides warranty for product only and shall not be liable for any cost incurred from product installation service, equipment, alignment and other inspection.

MOBILETRON™

Image 3.1: A graphic detailing critical information before purchasing and installing the TPMS sensor. It emphasizes that TPMS installation is not a DIY task and requires professional expertise.

3.1. Pre-Installation Checklist:

- **Professional Installation:** Ensure installation is performed by a qualified technician.
- **Tool Compatibility:** Do not attempt installation if your diagnostic tools cannot detect or communicate with the sensor (e.g., read sensor ID, frequency, battery status, PSI).
- **Pre-programmed Status:** This sensor is pre-programmed, meaning it is ready for pairing/re-learning with your vehicle's ECU.

Disclaimer: Mobiletron and its distributors are not responsible for labor or service costs incurred from installation failures due to improper handling, incompatible scan tools, or lack of proper relearn procedures. Reimbursement will not be applicable if sensor replacement is done by a DIYer or uncertified mechanic/technician.

4. SETUP AND INSTALLATION

The MORESENSOR Signature Series TPMS sensor is designed for direct fitment and is pre-programmed for compatible vehicles, simplifying the installation process. However, a relearn procedure is always required.

4.1. Installation Steps (Professional Installation Recommended):

1. **Tire Removal:** Safely remove the tire from the wheel.
2. **Old Sensor Removal:** Carefully remove the existing TPMS sensor from the wheel.
3. **New Sensor Installation:** Install the MORESENSOR CX-S002 sensor into the wheel. Ensure the adjustable valve stem is correctly positioned for your rim type.
4. **Tire Mounting:** Mount the tire back onto the wheel, taking care not to damage the sensor.
5. **Tire Inflation:** Inflate the tire to the manufacturer's recommended pressure.
6. **Wheel Balancing:** Balance the wheel and tire assembly.



Image 4.1: A visual representation of the TPMS sensor installed on a wheel rim. This demonstrates the sensor's placement and the "snap-in" installation method.

4.2. Relearn Procedure:

After physical installation, all new TPMS sensors require a relearn procedure to pair with the vehicle's ECU. This allows the vehicle to recognize the new sensor and display accurate tire pressure information.

- **Consult Owner's Manual:** Refer to your vehicle's owner's manual for specific standard relearn instructions.
- **Professional Tools:** A professional TPMS diagnostic tool may be required to initiate and complete the relearn process, especially for certain vehicle models.
- **Automatic Relearn:** Some vehicles feature an "auto-relearn" function, where the sensors are automatically recognized after driving for a certain period. However, manual initiation or a scan tool might still be necessary.

Patented Design

40° Angle Adjustable Valve Stem

Fits all standard OE and aftermarket rims



MORESENSOR

Image 4.2: This image highlights the patented design of the 40° angle adjustable valve stem, illustrating its flexibility to fit various standard OE and aftermarket rims.

5. OPERATION

Once properly installed and relearned, the MORESENSOR CX-S002 TPMS sensor will continuously monitor your tire pressure and transmit this data wirelessly to your vehicle's TPMS receiver. The vehicle's system will then display the tire pressure readings, typically on the dashboard or through a dedicated TPMS display.

- **Real-time Monitoring:** The sensor transmits real-time tire pressure data.
- **Low Pressure Warning:** If tire pressure drops below a safe threshold, your vehicle's TPMS warning light will illuminate.
- **Frequency:** Operates at 315MHz, ensuring reliable communication with compatible vehicle systems.

6. MAINTENANCE

The MORESENSOR TPMS sensor is designed for long-term reliability with minimal maintenance. The primary component requiring eventual replacement is the internal battery.

- **Battery Life:** The average lifespan of the sensor's internal battery is 5-8 years. Battery life can vary based

on usage and environmental conditions.

- **Sensor Replacement:** When the battery depletes, the entire sensor unit typically needs to be replaced, as the battery is not user-replaceable.
- **Valve Stem Inspection:** During tire rotations or replacements, inspect the valve stem for any signs of damage or corrosion. The reinforced plastic and metal valve stem is designed for durability and anodized to prevent rust and corrosion.

7. TROUBLESHOOTING

If you experience issues with your TPMS system after installing the MORESENSOR CX-S002, consider the following common troubleshooting steps:

- **TPMS Warning Light On:**
 - **Check Tire Pressure:** Manually check and adjust all tire pressures to the recommended levels.
 - **Relearn Procedure:** Ensure the relearn procedure was successfully completed. If unsure, repeat the procedure or have a professional perform it.
 - **Sensor Communication:** A professional diagnostic tool can verify if the sensor is transmitting data and if the vehicle's receiver is detecting it.
- **Incorrect Readings:**
 - **Sensor ID Mismatch:** Confirm that the correct sensor IDs have been registered with the vehicle's ECU during the relearn process.
 - **Interference:** While designed to minimize electromagnetic interference, ensure no external factors are disrupting the signal.
- **Sensor Not Detected:**
 - **Installation Check:** Verify the sensor is correctly installed in the wheel.
 - **Battery Status:** Although new, a faulty sensor battery is rare but possible. A diagnostic tool can check battery status.

For persistent issues, it is recommended to consult a certified automotive technician or contact MOBILETRON customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	MOBILETRON
Model	Signature Series (CX-S002)
Radio Frequency	315MHz
Material	Reinforced Plastic and Metal Valve Stem
Item Dimensions (L x W x H)	3 x 2 x 1 inches
Item Weight	1.92 ounces
Mounting Type	Flange Mount
Output Type	Digital

Special Features	Adjustable Valve Stem, IP67 Waterproof, Preprogrammed, Transmit Real-time data
OEM Part Numbers (Partial List)	0008223406, 36142360419, 4D0907275A, 4D0907275D, 95536166111
Battery Life (Average)	5-8 years



Image 8.1: An infographic detailing key features of the MORESENSOR Signature Series TPMS sensor, including its precision engineering, industrial-grade composite, seamless molding, all-weather rubber stem, 5-8 year battery life, 315 MHz frequency, and 3-year warranty.

9. WARRANTY AND SUPPORT

9.1. Warranty Information:





The MORESENSOR Signature Series TPMS sensor comes with a **3-year limited warranty**. This warranty covers the product itself. Please note that the warranty does not cover labor or service costs incurred from product installation, service, equipment, alignment, or other inspections.

9.2. Customer Support:

For further assistance, technical inquiries, or warranty claims, please contact MOBILETRON customer support. You can find contact information on the official MOBILETRON website or through your point of purchase. MOBILETRON is a specialized manufacturer of automobile sensing systems and components, committed to providing quality electronic products for the aftermarket and OE replacement, particularly for driving safety-related components.

© 2024 MOBILETRON. All rights reserved.
This manual is for informational purposes only. Specifications are subject to change without notice.

Related Documents - CX-S002

	<p>Mobiletron TX-PT004 TPMS Programming Tool User Manual</p> <p>User manual for the Mobiletron TX-PT004 TPMS programming tool. Learn how to use the device, program MORESENSOR, view specifications, and understand FCC compliance. Features Bluetooth connectivity and app control.</p>
	<p>Mobiletron Tire Pressure Monitoring System User Manual (THC03 & THE01)</p> <p>Official user manual for Mobiletron Tire Pressure Monitoring System (TPMS) models THC03 and THE01. Provides comprehensive guidance on installation, setup, operation, alarms, and technical specifications for trucks and buses.</p>
	<p>Mobiletron PT46 TPMS Tool User Guide</p> <p>Comprehensive user guide for the Mobiletron PT46 TPMS Tool, detailing specifications, operation, settings, troubleshooting, safety information, and warranty for automotive technicians.</p>
	<p>TPMS TX-V003/TX-V004 User's Manual and Specifications</p> <p>User's manual and technical specifications for Mobiletron TPMS models TX-V003 and TX-V004, including installation steps and FCC compliance information.</p>

