

## MOBILETRON CX-S031-SN

# MOBILETRON MORESENSOR Compact PRO Series 315MHz TPMS Tire Pressure Sensor Instruction Manual

Model: CX-S031-SN

## 1. INTRODUCTION

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The MOBILETRON MORESENSOR Compact PRO Series 315MHz TPMS (Tire Pressure Monitoring System) sensor is a pre-programmed replacement sensor designed for various Japanese brand vehicle models. This sensor is engineered to monitor tire pressure and temperature, transmitting data wirelessly to your vehicle's TPMS receiver. It is built for durability and reliable performance across a wide range of operating conditions.

## COMPACT PRO series

Pre-programmed / Reprogrammable TPMS Replacement Sensor

Programming-compatible with ATEQ VT56



Best Ever  
Signal Strength



8-10 Years  
Battery Life



IP67  
Waterproof



Wirelessly  
Programmable



Compact in size, reduce the risk of  
damaging sensor during replacement

Precision engineered & manufactured  
internal digital electronic circuitry

Industrial-grade composite for  
maximum durability

Seamless molding to minimize  
electro-magnetic interference

All weather rubber valve stem,  
anodized to prevent rust & corrosion

**MORE**  
SENSOR

**Image 1:** Overview of the MORESENSOR Compact PRO Series TPMS Sensor highlighting key features such as strong signal, 8-10 year battery life, IP67 waterproof rating, and wireless programmability. The sensor is compact, precision-engineered, and features an all-weather rubber valve stem.

- **Operating Temperature:** -40°C to 115°C
- **Maximum Pressure Range:** 125 psi
- **Waterproof Rating:** IP67
- **Battery Durability:** Designed for 8-10 years under normal usage (based on 10,000 miles per year).
- **Signal Strength:** Optimized for reliable performance in various vehicle types, including trucks and off-road vehicles.



## 2. IMPORTANT CONSIDERATIONS BEFORE INSTALLATION

Before proceeding with installation, it is crucial to verify several factors to ensure proper function and compatibility. TPMS sensor installation is not a do-it-yourself (DIY) task and requires specific knowledge, skills, and equipment. Professional installation is highly recommended.



# Important | Must Read

## Pre-programmed TPMS Sensor Shopping Guide

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

### Self-Checking List

1. Do you know what frequency your vehicle uses?

Use a TPMS scanner to verify the frequency or find a local tire shop check it for you

2. Have you doublechecked the vehicle make, model and year?

Use VIN number to look up vehicle information

3. Do you have a TPMS servicing tool to perform sensor relearn?

Vehicles that comply to Manual Relearn require a properly formatted and updated TPMS servicing tool to register and pair new sensors to vehicle

Please be advised that

- ★ **Pre-programmed ≠ Auto Relearn**
- ★ **TPMS sensor is not D-I-Y product**  
TPMS sensor's installation and pairing require certain level of knowledge, skill and special equipment
- ★ **DO NOT attempt to install sensors if your tool fails to read them**



**Image 3:** A guide outlining critical checks before purchasing and installing a pre-programmed TPMS sensor, emphasizing the need for professional installation and proper tool usage.

### Self-Checking List:

1. **Radio Frequency:** Confirm your vehicle's required TPMS radio frequency (315MHz or 433MHz). A TPMS scanner can verify this, or a local tire shop can assist.
2. **Vehicle Compatibility:** Double-check your vehicle's make, model, and year. Using your VIN (Vehicle Identification Number) can help look up accurate vehicle information.
3. **TPMS Servicing Tool:** Ensure you have access to a TPMS servicing tool capable of performing a sensor relearn procedure. Vehicles often require a properly formatted and updated TPMS servicing tool to register and pair new sensors.

### Important Advisories:

- **Pre-programmed ≠ Auto Relearn:** While these sensors are pre-programmed, they are not necessarily 'auto-relearn'. Most vehicles will still require a relearn procedure using a TPMS tool.
- **Professional Installation:** TPMS sensor installation and pairing demand a certain level of knowledge, skill, and specialized equipment. It is strongly advised to have these sensors installed by a qualified professional.
- **Tool Compatibility:** Do NOT attempt to install sensors if your TPMS tool fails to read them prior to installation. This indicates a potential incompatibility or issue that needs to be resolved first.

### 3. INSTALLATION GUIDE

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The MORESENSOR Compact PRO Series TPMS sensors are designed as direct OE replacements and come pre-programmed for specified vehicles. However, proper installation and vehicle relearn procedures are critical for correct operation.

#### General Installation Steps (Professional Service 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 Compact PRO Series sensor into the valve stem opening, ensuring it is securely mounted according to manufacturer specifications.
4. **Tire Mounting and Inflation:** Mount the tire back onto the wheel and inflate to the recommended pressure.
5. **Sensor Relearn Procedure:** Perform the vehicle-specific TPMS relearn procedure using a compatible TPMS diagnostic tool. This step is essential for the vehicle's ECU to recognize the new sensor IDs and display accurate tire pressure readings.

Failure to follow proper installation and relearn procedures may result in incorrect readings or TPMS warning lights remaining illuminated.

### 4. OPERATION

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Once correctly installed and paired with your vehicle's TPMS system, the MORESENSOR Compact PRO Series sensor will automatically begin monitoring the pressure and temperature of your tires. This data is transmitted wirelessly to your vehicle's onboard computer, which then displays the information on your dashboard or alerts you to any significant pressure drops.

- The sensor operates continuously while the vehicle is in motion.
- Regularly check your vehicle's dashboard for tire pressure readings and any TPMS warning indicators.
- Maintain proper tire inflation as recommended by your vehicle manufacturer for optimal safety and fuel efficiency.

### 5. MAINTENANCE

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The MORESENSOR Compact PRO Series TPMS sensor is designed for long-term reliability with minimal maintenance requirements.

- **Battery Life:** The internal battery is designed to last 8-10 years under typical driving conditions. When the battery depletes, the entire sensor unit must be replaced.
- **Reprogrammability:** These sensors can be programmed, reprogrammed, or modified using MOBILETRON and ATEQ branded TPMS programmers (e.g., PT46, PT47, VT56). This feature allows for flexibility in vehicle application and future adjustments if needed.
- **Valve Stem:** The sensor features an all-weather rubber valve stem that is anodized to resist rust and corrosion. Periodically inspect the valve stem for any signs of damage or wear.

### 6. TROUBLESHOOTING

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If you encounter issues with your TPMS system after sensor installation, consider the following troubleshooting points:

- **TPMS Warning Light:** If the TPMS warning light remains on after installation, ensure that a proper relearn procedure has been performed using a compatible TPMS tool.
- **Sensor Not Detected:** Refer to the "Important Considerations Before Installation" section (Section 2) to re-verify vehicle compatibility, correct frequency, and that your TPMS tool can read the sensor. Do not install sensors if your tool cannot read them.
- **Incorrect Readings:** Verify that tires are inflated to the correct pressure. If readings are still inaccurate, the sensor may require re-programming or professional diagnosis.
- **Professional Diagnosis:** For persistent issues, it is recommended to consult a certified automotive technician or a tire specialist. They possess the necessary diagnostic tools and expertise to identify and resolve complex TPMS problems.

## 7. SPECIFICATIONS

Detailed specifications for the MOBILETRON MORESENSOR Compact PRO Series TPMS Sensor (Model CX-S031-SN):



**Image 4:** Diagram illustrating the compact dimensions of the MORESENSOR Compact PRO Series TPMS sensor,

showing its length and width for installation reference.

Specification	Detail
Brand	MOBILETRON
Model	Compact PRO Series
Manufacturer Part Number	CX-S031-SN
Item Dimensions (L x W x H)	3 x 2 x 1 inches
Product Dimensions	3 x 2 x 1 inches
Item Weight	3 ounces
Material	Reinforced Plastic and Rubber Valve Stem
Style	Compact
Mounting Type	Flange Mount
Specific Uses For Product	Pressure, Temperature Monitoring
Special Features	Can be programmed by ATEQ VT56, Fixed Angle Valve Stem, IP67 Waterproof, Reprogrammable
OEM Part Numbers (Partial List)	19316553, 5L1Z1A150AA, 407003AN0B, 4321182Z00, 4313086Z20, 40700JA01B, 40700CK001, 40700JA01C, 407001AA0D, 40700JK01B, 40700CD001, 40700CK002, MN103081, MN103033, 42500B75

## 8. VEHICLE COMPATIBILITY

The MORESENSOR Compact PRO Series TPMS sensor is pre-programmed for a wide range of vehicles. A partial list of compatible models includes:

- **Chevrolet:** 15-18 City Express
- **Ford:** 05-06 Expedition, 04-05 Freestar
- **Infiniti:** 08-10 EX35, 03-10 FX35, 03-08 FX45, 09-10 FX50, 03-08 G35, 08-10 G37, 06-10 M35, 03-10 M45, 03-06 Q45, 03-03 QX4, 04-10 QX56
- **Lincoln:** 05-06 Navigator
- **Mitsubishi:** 06-12 Eclipse, 07-11 Endeavor, 07-12 Galant, 03-06 Montero, 03-06 Montero Sport
- **Nissan:** 03-09 350Z, 09-10 370Z, 07-13 Altima, 05-15 Armada, 09-14 Cube, 03-20 Frontier, 09-20 GT-R, 11-15 Juke, 06-15 Maxima, 03-14 Murano, 13-20 NV200, 03-12 Pathfinder, 04-09 Quest, 08-13 Rogue, 14-15 Rogue Select, 07-19 Sentra, 04-15 Titan, 07-19 Versa, 14-19 Versa Note, 03-15 Xterra
- **Suzuki:** 09-12 Equator, 05-06 Verona





It is highly recommended to verify your specific vehicle's compatibility using an Amazon Part Finder tool or by contacting the seller directly before purchase to ensure correct fitment.

## 9. WARRANTY AND SUPPORT

The MORESENSOR Compact PRO Series TPMS sensor comes with a **5-year limited warranty**. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or additional product information, please contact MOBILETRON customer service. Details on how to reach support can typically be found on the product packaging or the official MOBILETRON website.

### Related Documents - CX-S031-SN

	<p><a href="#">Mobiletron TX-PT004 TPMS Programming Tool User Manual</a></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><a href="#">Mobiletron Tire Pressure Monitoring System User Manual (THC03 &amp; THE01)</a></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><a href="#">Mobiletron PT46 TPMS Tool User Guide</a></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><a href="#">TPMS TX-V003/TX-V004 User's Manual and Specifications</a></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>



TEST REPORT

FCC Part 15 Subpart C

Test Report

Model

Brand

Model

FCC ID

Applicant

Address

City

State

Zip

Country

Test Date

Test Location

Test Results

Test Report

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Mobiletron TPMS TX-K001 FCC Part 15 Subpart C Test Report

This report details the compliance testing of the Mobiletron TPMS, model TX-K001, under FCC Part 15 Subpart C regulations. It includes conducted and radiated emission tests, bandwidth measurements, and duty cycle analysis.