

Tire Pressure Monitoring Sensor Product Manual

1. Product Basic Information (Mandatory for FCC Certification)

Product Name: Tire Pressure Monitoring Sensor

Product Model:

MRTSMS0001,MRTSMS0002,MRTSMS0003,MRTSMS0004,MRTSMS0005,MRTSMS0006,MRTSMS0007,MRTSMS0008,MRTSMS0009,MRTSMS00010

Manufacturer: Guangzhou Meiruntao Thermal Electric Appliance Co., Ltd.

Address: Guangzhou Meiruntao Thermal Electric Appliance Co., Ltd.

Transmit Power: 315MH z -433MH z

Sensor Battery Type: Lithium-manganese battery

2. Product Summary

Tire Pressure Monitoring Sensor is designed to monitor, display and confirm the working status of vehicle tires. When abnormal tire conditions occur (e.g., overpressure, underpressure, overtemperature, sudden atmospheric pressure changes), the system will issue an alarm promptly via lights, sounds and digital displays of real-time tire status. This ensures driving safety, prevents tire blowouts, and maintains tires in a rational usage state for an extended period.

3. Installation and Learning Process

1. Install the four sensors onto the tires, then inflate the tires to the standard pressure value specified by the vehicle manufacturer.
2. Press the "MENU" button on the dashboard, navigate to "Tire Pressure Display" under the "Fuel & Mileage Information Menu", and press "Set/Clr".
3. The Driver Information Center (DIC) will display "Tire Pressure Learning". Select "Yes" and press "Set/Clr" – the vehicle horn will beep twice to confirm.
4. The DIC will show "Tire Pressure Learning Enabled".
5. Start with the left front wheel: Hold the reset tool antenna close to the valve core position on the tire hub, press the tool's start switch. The horn will beep once to indicate the sensor information has been successfully read.
6. Repeat the above process sequentially for the right front wheel, right rear wheel, and left rear wheel. Upon completion of learning, the turn signals will flash for 3 seconds, and the horn will beep twice.

CAUTION: If the above learning process is not applicable to your vehicle model, please contact an authorized 4S shop for computer-assisted learning.

4. Relearn Judgment

Tire pressure relearning is required in the following cases:

Tire Pressure Monitoring Sensor malfunctions or the TPMS warning light illuminates abnormally;

Tire rotation is performed;

The Body Control Module (BCM) is replaced;

Tire Pressure Monitoring sensors are replaced (new or used sensors);

The vehicle has been involved in a minor collision that may affect tire or sensor status.

5. Disassembling Tire Pressure Sensor

5.1 Disassembly Tools

T10 Torx wrench, dedicated valve replacement tool, tire deflation tool.

5.2 Disassembly Steps & Notes

1. First, deflate the tire completely to avoid injury caused by residual pressure.
2. Use the T10 Torx wrench to loosen the fixing screw of the sensor, then gently remove the sensor from the valve core position.
3. If replacing the valve, use the dedicated tool to remove the old valve and install a new one matching the sensor model.

WARNING: Disassembly must be performed by professional technicians. Improper operation may damage the sensor, valve or tire, leading to potential safety hazards.

Note: Tire pressure relearning must be performed after disassembling and reinstalling the sensor.

6. Installation, Inspection and Judgment

6.1 Installation Requirements

Install the new or reinstalled TPMS sensor firmly, tighten the fixing screw with the T10 Torx wrench, and ensure no air leakage at the valve core.

6.2 Inspection Criteria

After installing the Tire Pressure Monitoring Sensor and completing relearning, the system is considered installed correctly if:

The Tire Pressure Monitoring Sensor warning light on the dashboard does not illuminate;

Real-time pressure values and temperature (if supported) of all four tires are clearly displayed on the dashboard;

No abnormal alarms are issued during idle or driving tests.

If the warning light remains on or no pressure value is displayed, check the sensor installation, battery status, and perform relearning again. If the problem persists, contact the manufacturer or authorized service provider.

7. Disclaimer

1. This product is only applicable to the specified vehicle models. Improper installation or use may affect its performance and cause safety risks. The manufacturer shall not be liable for any losses caused by improper operation.
2. The sensor battery has a limited service life (usually 5-8 years). Replace the battery in a timely manner when the battery low warning is received to avoid TPMS failure.
3. This manual is subject to change without prior notice. For the latest version, please contact the manufacturer or visit the official website.

8. FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no

guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

RF Exposure Statement

To maintain compliance with FCC'S RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm between the radiator and your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

Issued Date: 2026.1.28

Version: V1.0