

4-wheel Battery TPMS System Quick Installation Guide

VS-63W018 Contents

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Warning

FCC Regulations

This tire pressure monitoring system has complied with Article 15 of the FCC regulatory requirements of the USA, but it is still needed to pay attention to the following two items:

- (1) Other harmful interferences may affect the system's normal operation.
- (2) Abnormal operation may cause the system to fail.

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.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: The product will not be guaranteed if user change or modify the hardware and system design.

Product Warning

1. Do not operate a TPMS receiver while driving. The company is exempt from all consequences because of driver's careless and improper operation.
2. The system adopts the wireless transmissi of signals. In some special circumstances, interference or erroneous methods of operation or installation method errors may cause weaker signal or its inability to receive signals. If the insulation adhesive sticker of the windshield contains metal material, it will be likely to affect reception conditions. If the tire pressure and temperature readings on the TPMS receiver are displayed as ---, this condition represents the receiver cannot receive signals emitted by the sensors. Drive the vehicle away from the current location (nearby there may be signal interference) or drive the vehicle to a tire shop to check, or return the TPMS receiver to distributor for repair. If the battery status of the TPMS sensors inside the tire is low (because abnormal conditions continue to occur, the battery may make the TPMS sensors continuously emit signals to warn the driver, so that battery life is shorter than the normal life), please go as soon as possible to the specified service stations to confirm whether the TPMS Sensors need to be replaced.
3. Please change the Receiver's dry battery or sensor while the Receiver's dry battery power is low or Sensor Low battery warning is alarm, or it may cause the TPMS thus cannot be operated and alarm normally. You will take all risks and responsibilities for this!
4. Temporary resealing or re-inflation products containing internal sealants or propellants in any tire assembly may adversely affect the operation of the sensor/transmitter. The product manufacturer does not assume any liability as a result of these.

System Installation

The wireless TPMS needs to be installed by qualified personnel in accordance with installation manual to enjoy related warranty. If improper assemble or disassemble process damages the sensor, it will not be covered by warranty.

Reminder: annual periodic inspection for the "sensor valve" is proposed, which should be replaced immediately if damaged, in order to avoid air leakage.

Important Safety Guide

System Warning

When the system displays a warning light and warning "beeps", you should immediately slow down, stop in a safe location and check the tire condition, and immediately drive to the nearest qualified tire maintenance garage to repair and make related in-depth examination.

1. Product Parts List

NO	Part Name	Q'ty
1	Sensor	4
2	Valve package (valve and screw)	4
3	Tire pressure monitoring receiver	1
4	AA battery	2
5	Quick installation guide	1
6	Product warranty card	1
7	Velcro	1

2. Sensor Installation

2.1 Installation Location

Please follow the label on the sensor, install the sensor into the rims accordingly, it could skip the "ID Learning" steps for each sensor!



2.2 Sensor Assembly Process

- (Fig 1) Loosen the tire. Fix both sides of the tire and press, and make it bulge.
 - (Fig 2) Remove the tire. The valve faces the mounting arm in the one o'clock direction, remove the tire.
 - (Fig 3) Remove the sensor. Loosen the fixing screw, allow the sensor separate from the valve, and release the nut to take it apart from the valve.
 - (Fig 4) Install the sensor and valve. Insert the valve through the rim hole, fix the screw to secure the valve and sensor by 2 Nm in torque, attach the sensor body to the inner surface of the rim by adjusting the angle of the sensor body.
 - (Fig 5/6) Install valve to the rim hole. Guide the washer into the valve, and fix the nut by 4 Nm in torque, then tighten the cap.
- Note:** Mount the tire. Grip the rim edge, and the valve is opposite to the mounting arm, avoid hitting the sensor during arm operation.

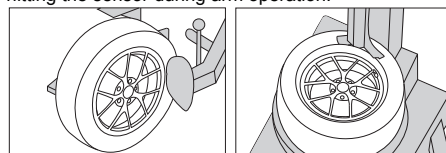


Fig 1

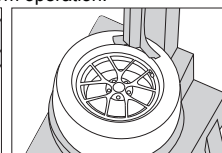


Fig 2

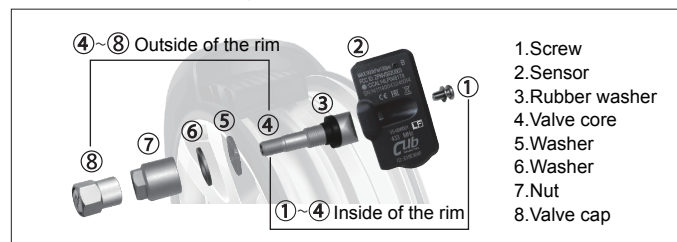


Fig 3

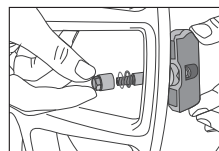


Fig 4

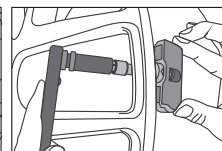


Fig 5

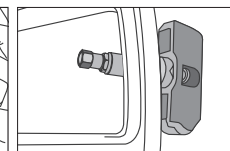
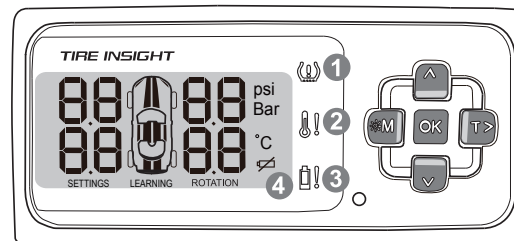


Fig 6

3. Installation of Tire Pressure Monitoring Receiver

3.1 Buttons Function Introduction

Function key	Normal mode	Setting mode
	Backlighting and enter the function setting mode (hold for 3 seconds)	Leave function setting mode
	Mute the warning audio	Save the setting
		Up and down selection/ value adjustment
	Switch to tire temperature mode for 10 seconds	Unit setting or right button
	Set the backlight to be always on/off	



3.2 Warning Light Symbol

No.	Light Symbol	Abnormal Light Message
1		Alarm for excessive high/low tire pressure
2		Alarm for excessive high tire temperature
3		Warning for low battery in TPMS sensor, need to replace new sensor
4		Warning for low battery in receiver, need to replace new battery

Abnormal Warning Illustration

When the TPMS sensor transmits abnormal signal to the receiver, a warning symbol will blink and "beep" as an audio alarm. The abnormal value is shown on the corresponding tire on the receiver.

3.3 Recommend the Receiver Mounting Position

It's our recommendation to mount within 1/3 of the region right on the center of dashboard, or the position which can receive the sensor signal well.

Note:

1. Recommended battery type: Alkaline E91, 1.5V, AA battery, The operating temperature of regular alkaline battery is $-18^{\circ}\text{C} \sim 55^{\circ}\text{C}$, higher temperatures will cause battery leakage.
2. Power saving design: in order to decrease the consumption of receiver battery, the receiver has a dormant design, to save the battery power consumption. When the ignition is on, the receiver will be restarted automatically by shock.
3. If you finish setting and want to return back to tire pressure/tire temperature display screen under any setting mode, please hold the **#M** button for about 3 seconds

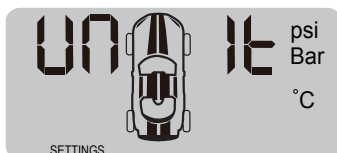
4. Setting Items

Hold **#M** for 3~5 seconds to enter the setting mode, press **v** for the following functions:

Function	Description
Unit	Tire pressure setting (4.1)
Tone	Volume setting (4.2)
SETTINGS	Tire pressure and temperature setting for front and rear tire (4.3)
LEARNING	TPMS sensor ID learning (4.4)
ROTATION	Tire position rotation (4.5)

4.1 Tire Pressure Unit Setting

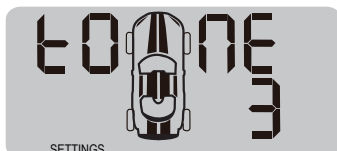
Enter Unit setting mode, press **T>** to tire pressure unit, the unit will blink, press **v** to choose the desired unit, press **OK** to complete the unit setting.



▲ Tire pressure unit setting

4.2 Volume Setting

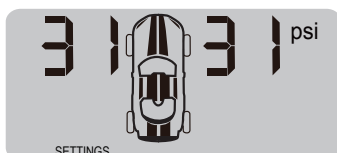
Hold **#M** for 3~5 seconds to enter the SETTING mode. Press **v** once for volume setting. Press **T>** and set the volume value, the value of the volume will blink, press the **v** button to adjust the value between 1 and 5, where 1 is the lowest volume level and 5 is the loudest. The value is fixed and will stop blinking after pressing **OK**.



▲ Volume Setting

4.3 Tire Pressure Standard Value and Temperature Warning Value Setting

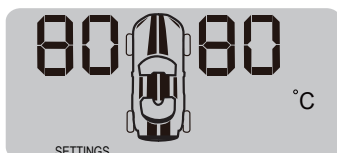
Hold **#M** for 3~5 seconds to enter the SETTING mode. Press **v** once for tire pressure standard value and temperature warning value setting. Press **T>** and set the tire pressure standard value, the value of the front wheel will blink, press the **v** button to adjust the value. The value is fixed and will stop blinking after pressing **OK**, then the value of the rear wheel will blink, press **v** to adjust the value. The value is fixed and will stop blinking after pressing **OK**. The pressure standard value setting is now completed. Then it enters the tire temperature warning value setting; the setting procedure is the same as the tire pressure setting.



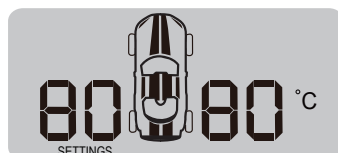
▲ Front Wheel / Tire Pressure setting



▲ Rear Wheel / Tire Pressure setting



▲ Front Wheel / Tire Temperature setting



▲ Rear Wheel / Tire Temperature setting

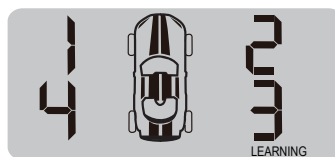
Note: For the tire pressure standard value, please refer to the placard which be attached to the side of the driver seat.

- Warning of excessive low tire pressure indicates tire pressure has been leaked to 20% or less of the tire pressure standard value set by the user, or $\leq 150 \text{ kPa}$ (22psi).
- Warning of excessive high tire pressure indicates tire pressure has been risen to 50% or more of the tire pressure standard value set by the user.
- Warning of excessive high tire temperature indicates tire temperature is higher than tire temperature warning value set by the user.
- For example, if the tire pressure standard value is 31 psi, when tire pressure is increased $\geq 47 \text{ psi}$ or decreased $\leq 25 \text{ psi}$, the receiver will alarm.
- For example, if the tire temperature warning value is 80°C , when tire temperature is increased $\geq 80^{\circ}\text{C}$, the receiver will alarm. When the tire temperature is below 0°C , it will show "Lo" on the panel.
- If the environment temperature is too hot or cold, the tire pressure will vary accordingly. Please go to the tire shop to inflate or deflate the tires to prevent an erroneous alarm.

4.4 ID Learn Setting

When replacing or installing a tire pressure monitoring sensor for a second time, the receiver must learn the new tire pressure sensor ID. The setting procedure is below:

- 4.4.1 Hold the **#M** button for 3 to 5 seconds, enter the setting mode.
- 4.4.2 Choose the "ID Learn" mode.
- 4.4.3 Press the **T>** button, the digits will blink.
- 4.4.4 Deflate the tire, the receiver will beep when receiving the signal; the ID learn setting is finished when the digits stops blinking.
- 4.4.5 Press the **v** button again, then do the learning procedure for the next tire.
- 4.4.6 Repeat the above procedures until completing the learning of the 4 tires, then please press **OK** the button to save the ID numbers.



▲ ID LEARN setting

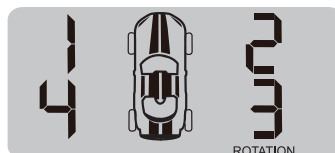
Note:

1. When learning the sensor IDs by pressure deflation, please proceed with fast deflation to avoid unsuccessful ID learning

4.5 Tire Position Rotation Setting

When the wheel is switched, the sensor position would be different from original. You should use ROTATION mode for tire position setting.

In ROTATION mode, 1 to 4 digits is showed on screen. Press **T>**, then the digit will flash. Press **v** to adjust tire position. Press **OK** to save when the setting is completed.



▲ Rotation setting screen