

Think safety Think Steelmate



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STEELMATE®
Automotive

TP-05

Match original A/V monitor



Manual

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TPMS

User's Manual

Important notice

- This unit is for vehicles with 12 VDC.
- This unit should be installed by a professional technician according to the installation instruction.
- TPMS (tire pressure monitoring system) is designed to help the driver to monitor the tire irregularities. It is the driver's responsibility to react promptly to alerts. Abnormal tire pressure should be corrected ASAP.
- TPMS is a wireless RF product, therefore, it may not receive signals due to the poor environment, RF interference, low sensor battery or a damaged sensor.

About the product

This TPMS match original A/V monitor. It can work with PAL or NTSC monitor. The wireless sensor design to measure the tire pressure and temperature. Once installed in your vehicle, the system will automatically monitor tires in real-time for pressure and temperature. When any tire's pressure and/or temperature appear abnormal, the system will, in real-time, transmit signals to activate an alarm to warn the driver of tire problem.

Each sensor is equipped with the long life battery which is usually used in the pacemaker, combined with its energy saving design, the sensor can be used for about 6 years.

Our TPMS can help you to avoid tire accidents due to tire failure, to reduce the fuel consumption and to extend the tire life.

Key features

- Match original A/V monitor (PAL or NTSC)
- Long battery life (>6 years or >100,000Km)
- Easy installation
- Real time monitoring for abnormal tire
- Easy sensor programming with TPMS sensor partner (optional)

Technical specifications

1.Sensor :

Working frequency:	433.92 MHz
Working voltage:	2.0 ~ 3.6V
Working temperature:	-40°C ~ +125°C
Humidity:	0% ~ 100%
Temperature reading:	±1°C
Pressure reading:	±0.1Bar
Sensor battery life	6 years

2. Control unit:

Working frequency:	433.92 MHz
Working voltage:	12±3V
Working temperature:	-20°C ~ +85°C

3. Air pressure unit

1 Bar = 14.5 Psi = 100K Pa = 1.02 Kg/cm²

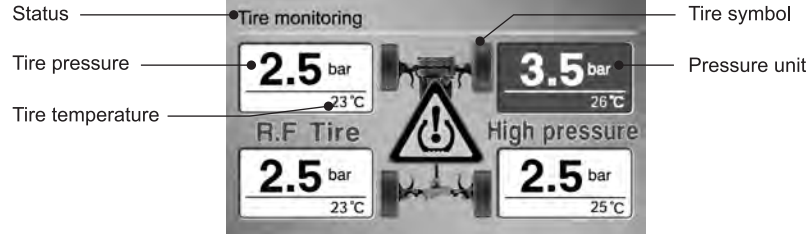
Remote button



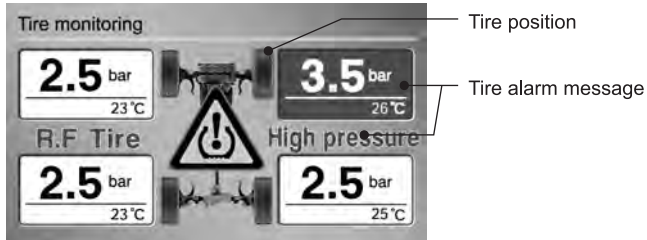
Press the remote button to control the TPMS

Screen of the TPMS

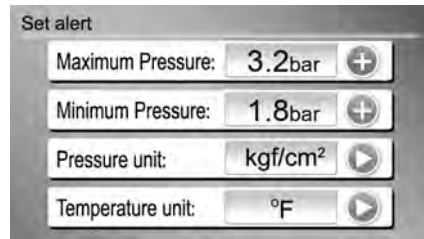
1. Main screen



2. Alarm screen



3. Setting screen



- Press and hold the remote button 4 seconds to enter the setting screen.
- Please short press the button to increase/change parameter. If the parameter in excess of maximum, the parameter will down to minimum.
- Press and hold the button 2 seconds to save and enter next parameter setting.

How the system work

Once the ACC is turned on, after 25 seconds the speaker will chirp once and DVD display will perform self-test. It will display the lastest saved data while no updating data (Picture 1), and display the updating data while updating data is record. (Picture 2)

The system will exit the TPMS monitor interface without pressing the remote button 4 seconds.



Tire measure data is updating (Picture 1)



Tire monitoring (Picture 2)

Tire status Indication

Short press the TPMS button once, speaker alert and screen display the tire information. The system will exit the information interface automatically after 8 seconds.



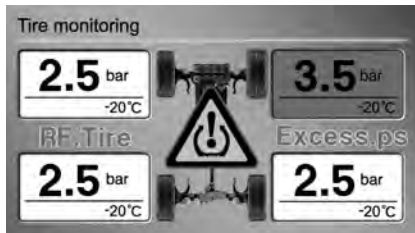
Short press the TPMS button once



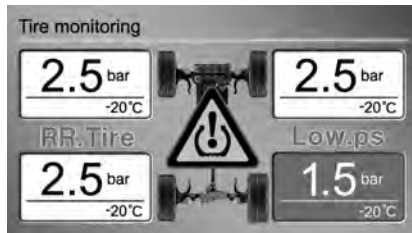
Tire pressure monitoring

Abnormal tire alarm

When the tire is in abnormal situation (high pressure, low pressure, high temperature, fast leak, slow leak or low battery), the tire's corresponding display box will turn to red and yellow value with voice alert. The message will alarm per 5 seconds, if the remote button is being pressed, will alarm per 1 minute.



1. RF (Right front) tire high pressure

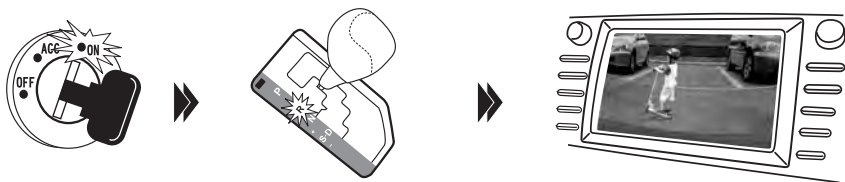


2. RR (Right rear) tire low pressure

Upgrade function

Rearview camera (optional)

Ignition on, shift to R-gear, A/V monitor show the rear view automatically.



R-gear priority: When shift to R-gear, monitor will show the rear view. Other functions will work in background (including tire abnormal).

Monitoring tire status

Ignition on (don't shift to R-gear), press TPMS button, monitor enter to monitoring interface. The system will exit the monitoring interface without pressing TPMS button 10 seconds.

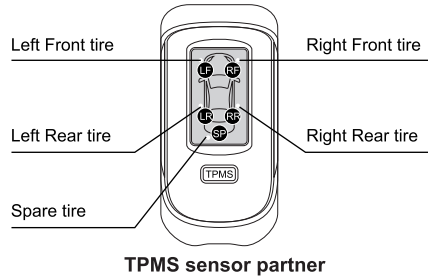


Sensor programming

The sensors in this unit have been individually pre-set for each tire in the factory. Once the labeled sensors are installed in the corresponding tires, there will be no need to program the sensors.

Each time a wheel position is changed, the sensor in the tire must be programmed to the display. There are two methods to program sensors of TPMS:

1: Program the sensors with TPMS sensor partner



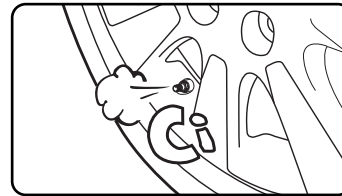
TPMS sensors partner is a device which can program TPMS sensors without deflating tires.

1. Switch on the TPMS sensor partner.
2. Place the TPMS sensor partner close to the tire valve (ie, the left front tire) and press the corresponding button (ie, LF) once, the LED light turn on for 4 seconds to confirm the tire location is recognized.
3. Repeat step 2 for other sensors.
4. When all sensors are recognized, the corresponding LED lights will illuminate, take the TPMS sensor partner close to the display.
5. Turn on the display and enter the programming mode (Press the "SET" button for 5 times)
6. Press the TPMS button on the TPMS sensor partner once, the display will beep once to confirm the programming is successful.

Method 2: Program the sensors by deflating each tire

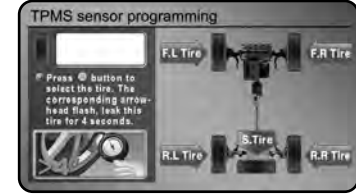


Press TPMS button 5 times to enter sensor programming interface.

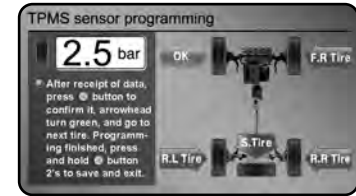


Deflate each tire 4 seconds or more

Program the other sensors in the same way.
Press and hold 3 seconds to save and exit.
Note: Please inflate the tire if the tire pressure is low.

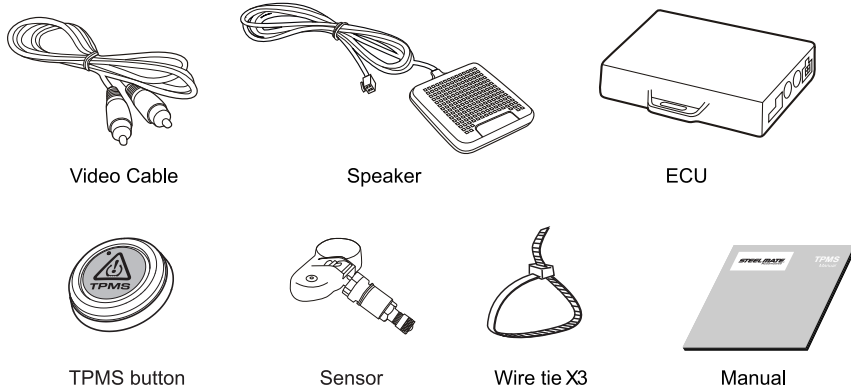


Short press TPMS button to select corresponding tire.

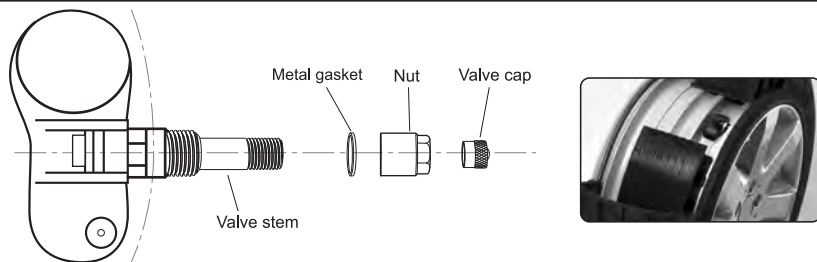


After system receive sensor signal, press the TPMS button once. Tire has been programmed.

Packing list

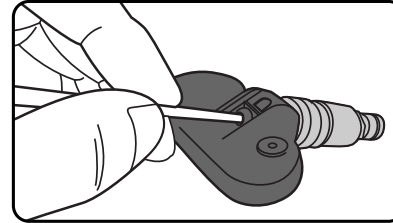


About the tire sensor

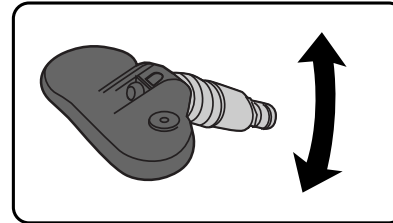


TPMS sensor angle adjust

According below step to adjust the angle of TPMS sensor to fit the wheel hub.



Loose the screw



Adjust the angle of TPMS sensor to fit the wheel hub.

Trouble shooting

1. After the installation, there is no tire information on the display?

- 1). The sensors are not programmed to the display, please reprogramm the sensors.
- 2). The display is not turned on.
- 3). The video cade is not connected

2. When ACC is turned on, there is tire information on the display but the tire symbol is flashing slowly.

- 1). The display shows the previous tire information. Once the new tire information is received, the tire symbol will stop flashing.

3. There is no tire information for a specific tire.

- 1). There is a problem with the sensor.
- 2). The sensor is not programmed to the display.

Warranty terms

The unit is warranted for a limited period of time from the date of purchase. In the unlikely event of a defect arising in this product when used in accordance with the manufacturer's instructions, the parts would be repaired or replaced free of charge.

- a) It is required to show warranty card when making any warranty claims.
- b) The model and the unit's serial number must be the same as the information on the warranty card.

This warranty is non-transferable and is automatically void if:

- a) The original purchaser has not completed the warranty card.
- b) The unit's serial number is defaced, missing or altered.
- c) The unit has been modified or used in a manner contrary to its intended purpose.
- d) The unit has been damaged by accident, unreasonable use, neglect, improper installation or service.

The warranty does not cover:

- a) Damage caused by incorrect or poor installation problems which may be caused by anomalies in the vehicle's electrical system or originating from the environment in which the system is operated.

Warranty card

Dear user:

Thank you for choosing this product.
Please fill the form below and retain it.

User's information:

User:

Tel:

Vehicle license No.:

Product model No.:

Serial No.:

Date of installation:

Name of the retailer Signed by distributor