

TPMS PRO

Vehicle Wireless TPMS HUD

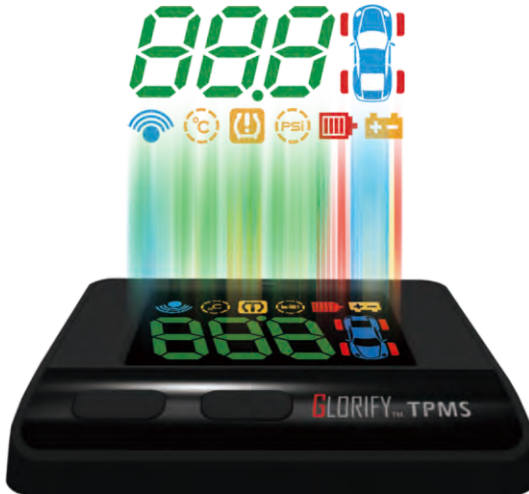


T204
User Manual

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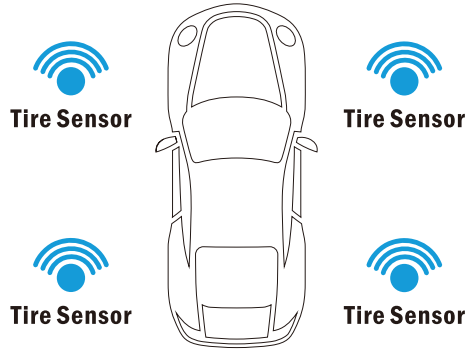
1.1 Introduction of Product Safety



TPMS PRO 8 in 1 Features

- **Heads-Up Display(HUD).**
- **Tire pressure monitoring(TPM)**
- **Tire temperature monitoring.**
- **Low pressure tire warning alarm.**
- **Over pressure tire warning alarm.**
- **Over tire temperature warning alarm.**
- **Vehicles battery voltage monitoring.**
- **TPMS tire sensor battery voltage monitoring.**

TPMS PRO



Tire wireless sensors transmitting data's :

- Tires pressure.
- Tires temperature.
- Tire sensors batteries voltage.

HUD display on
vehicle windscreen



Link provided by the host HUD cigarette lighter power

1.3 Heads-Up Display (HUD) Technology

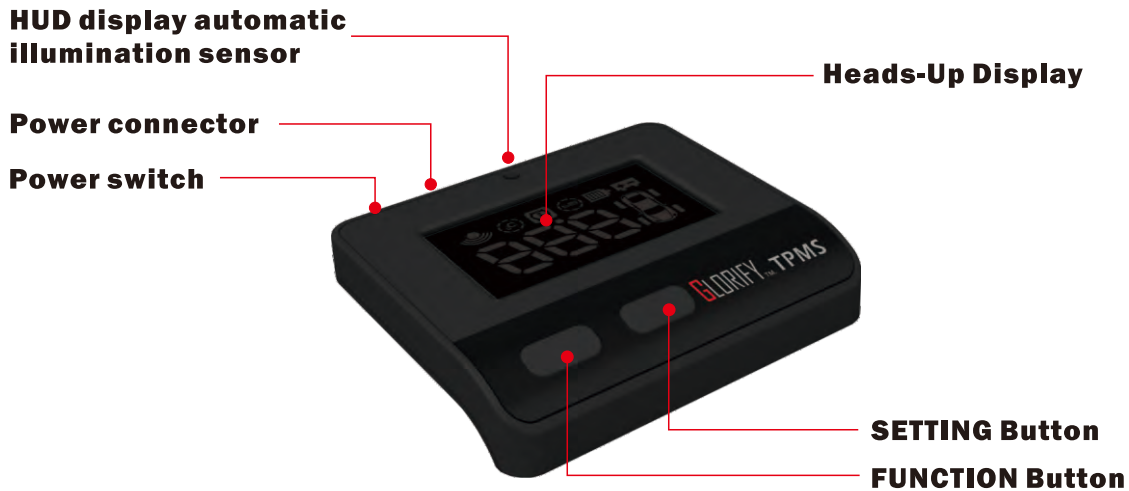
HUD(Heads-Up Display) Technology firstly developed for military and commercial aviation to help pilot being able to view real time data on the windshield or helmet without looking down the lower side instrument.



1.4 Package Content

Descriptions	Q'ty (Pcs)
HUD (Heads-Up Display) Unit	1
Cigarette Lighter Power Cable	1
HUD Reflective Film	1
HUD Fitting Accessories	2
Tire Sensor	4
Tire Sensor Battery CR1632	4
Tire Safety Lock Nut	4
Tire Sensor Spanner	1
User Manual	1
Warranty Card	1

1.5 HUD Unit Lay Out



2.1 HUD Unit and Cigarette lighter Connection

Step 1: Locate the vehicle cigarette lighter

(1) Search position of Host Unit.(Figure 1)

(2) Cigarette lighter Connector.(Figure 2)

Step 2: To confirm the screen turns on automatically

(1) Turn on the engine.

(2) Turn on the switch of the HUD unit.(Figure 3)

(3) Wait the screen turn on automatically.(Figure 4)



Figure 1



Figure 2



Figure 3



Figure 4

Instruction :

1. If Cigarette lighter, turn off the engine, the power will be shut down, the host switch normally open.
2. If engine is shut down, the power will not turn off will be required to host the rear of the switch to turn off or unplug the cigarette lighter plug to prevent battery power depletion.

2.2 Sticking the Reflective-Film

Step 3 : Sticking the reflective film

- (1) Clean the windshield reflective area. (Figure 5)
- (2) Take off the release film, spray soap water both on windshield and reflective film (Figure 6), place absorbent material below to prevent water dripping on dashboard. (Figure 7)
- (3) Stick the reflective film on windshield and align it properly. (Figure 8)
- (4) Scratch out air and water between reflective film and glass windshield than clean. (Figure 9)
- (5) Wait until reflective film dry. (Figure 10)



Figure 5



Figure 6



Figure 7



Figure 10



Figure 9



Figure 8

Step 4 : Sticking the VELCRO tape

- (1) Stick the VELCRO tape at the bottom side of HUD unit. (Figure 11)
- (2) Tear-off the release film. (Figure 12)
- (3) Stick the VELCRO tape on designated vehicle dashboard area.
- (4) Place the HUD unit. (Figure 13)



Figure 11



Figure 12



Figure 13

3.1 Tire Sensor / Tire Sensor Position

Step1 : Tire sensors position and label

The tire sensors position come with individual label to indicate the position from the tire.
The tire sensors shall be installed according to the designation position. (Figure 14)

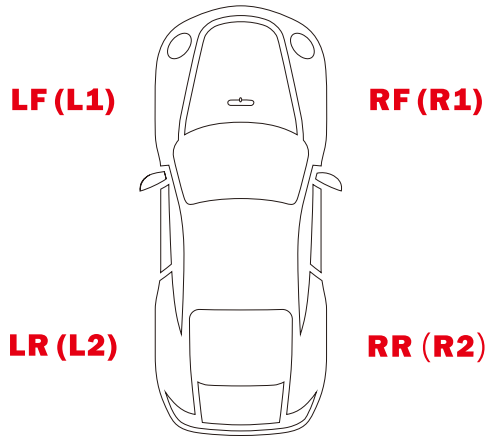


Figure 14

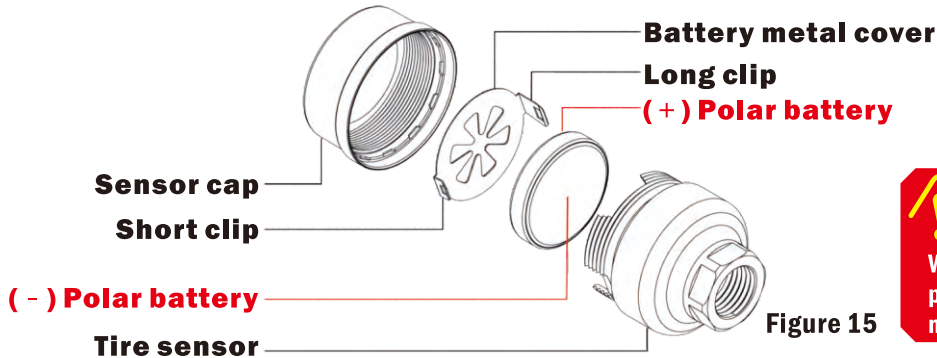


R1 Right Front
R2 Right Rear
L1 Left Front
L2 Left Rear

3.2 Tire Sensor / Tire Sensor Battery Installation

Step 2 : Tire Sensor Battery Installation

The tire sensors apply with lithium CR 1632 batteries.



Caution !

Wrong placement of battery polarity will cause sensor battery malfunction.

- (1) Prepare the sensor battery, check the + / - polarity. (Figure 15)
- (2) Remove sensor cap.
- (3) Remove the battery metal cover by unclipping both clips (short and long clips).
- (4) Place the battery in correct polarity.
- (5) Place the battery cover in place and press both clips with proper closure.
- (6) Close the sensor cap by screwing tightly.
- (7) Reading the tire sensors battery voltage to make sure the sensors work properly.
(ref. to page 18) Replace sensor battery when voltage is under 2.6 Volt.

3.3 Tire Sensor / Installation On Vehicle Tire

Step 3 : Install tire sensors on vehicle tires

Before installation, be sure the position of each sensor shall be correctly placed.

- (1) Remove tire-valve cap. (Figure 16)
- (2) Screw-in the safety lock nut first. (Figure 17)
- (3) Place sensor on assigned position. (Figure 18)
- (4) Screw it tightly. (Figure 19)



Figure 16



Figure 17



Figure 18



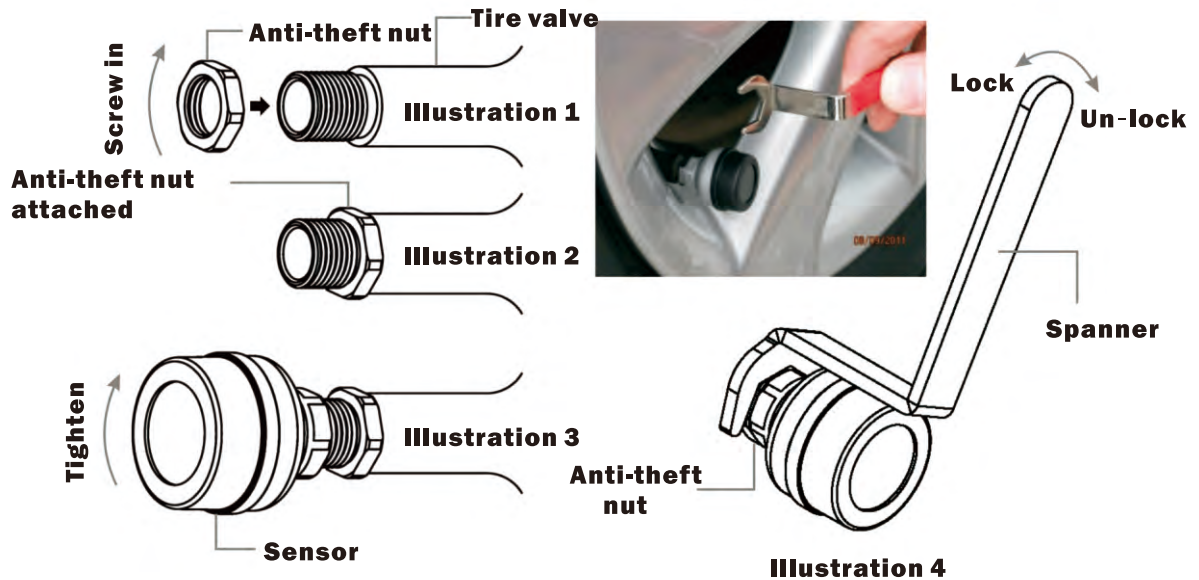
Figure 19

Note :

The tire sensor shall be fitted and screwed tightly to prevent tire air leakage.

Step 4 : Anti-theft nut usage

- (1) Screw the anti-theft nut in the tire valve. (Illustration 1 and 2)
- (2) Screw and tighten the tire sensor in clockwise direction. (Illustration 3)
- (3) Use spanner to tighten nut in anti-clockwise direction to lock sensor. (Illustration 4)



3.5 Installation FAQs

FAQ 1: 4 sensor signals can not be received within five minutes.

Solution:

- (1) Please confirm whether the battery installed backwards.**
- (2) Make sure the battery cleat is fastened, and close contact with the battery together.**
- (3) Make sure the battery is sufficient, if less than 2.6 V battery should be replaced immediately.**
- (4) Remove the battery, reinstall.**
- (5) Please unscrew the sensor cover, check whether there is water vapor infiltration, causing the battery or batteries rusty cleat, thus failure.**

FAQ 2: When a tire position for 5 minutes did not receive RF signals, and see a red icon lights up of the tire position.

Solution:

- (1) Please drive the vehicle to leave this area (may have a strong radio signal interference in the vicinity)**
- (2) Make sure the battery is sufficient, if less than 2.6 V battery should be replaced immediately.**
- (3) Please contact your dealer for assistance.**

FAQ 3: If the purchased products that no sticker affixed to the wheel position sensors, round stickers duplicated or fall, how to do?

Solution:

When production, HUD unit and four sensor settings have been completed, subject to the above questions, please contact your dealer to reset, to avoid placing the sensor position error.

Instruction :

The system is based on the operation of the wireless signal, in some special cases, the system may be due to environmental interference, incorrect operation or improper installation, resulting in reduced or unable to receive radio signals.

4.1 HUD Operating Instructions

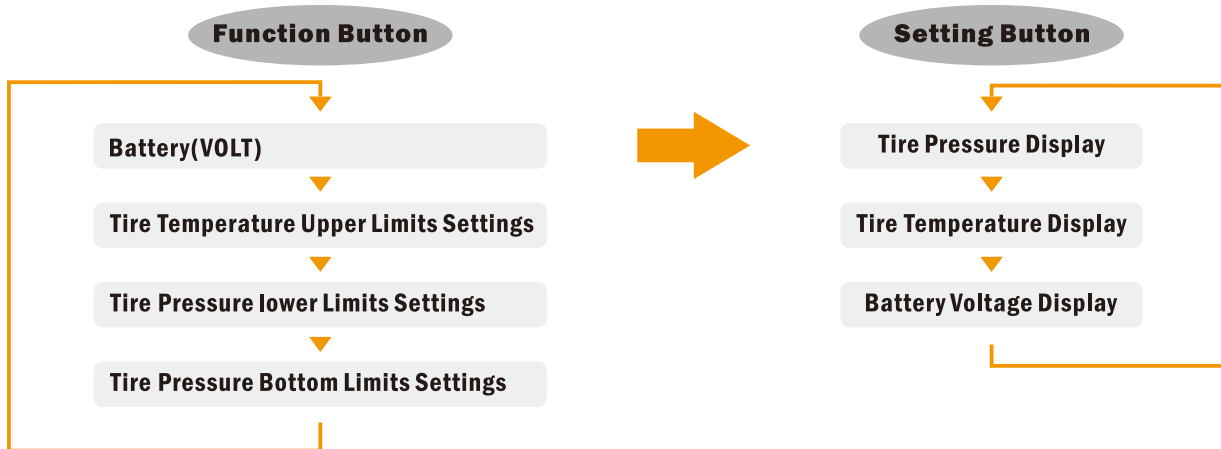
Function button:

Press the function button to cycle through the various functions in the battery voltage screen (main screen).

Setting button:

Press the setting button to change the settings in the temperature/pressure limit setting screen.

Press the setting button to show tire temperature/pressure and sensor voltage in others.



4.2 HUD-Receiving RF Signal From Tire Sensors

Start the engine, power turned on. (For turn on the power switch, open Host at the power switch) Into the enter the receiving state.



When the Host receives RF signal from Sensor, the red light on the tire will extinguish one after one.



Received all RF signals from 4 pieces of Sensor.
TPMS is ready.



5.1 HUD-Function and Setting



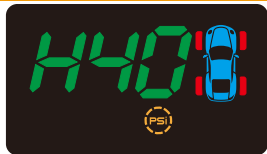
Do not press

Showing battery power.



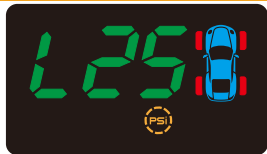
Press once

Set temperature warning of tire, and the limited range is available from 60~75°C.



Press two times

Upper limit settings of tire pressure, PSI(H=High),rightclick can set value range from 40~60 Psi.



Press Three times

Lower limit settings of tire pressure, PSI(L=Lower),and the range is available from 25~45 Psi.

5.2 Quick Check Tire Condition

Press **SETTING** button once for quick check individual tire pressure (PSI), tire temperature ($^{\circ}\text{C}$) and tire sensor battery voltage (Volt), each item will be displayed in 5 seconds sequentially.

PSI



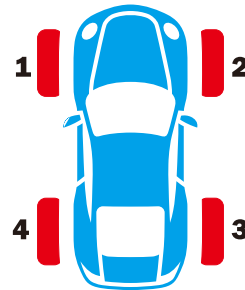
Tire pressure

Tire temperature

Tire sensor battery



SETTING Button



Display 1 → 2 → 3 → 4
tire data in 5 sec. sequentially.

5.3 HUD - Warnings and Legends



Vehicle battery voltage (Volt)

Display vehicle battery voltage. Icons blink and a beep sounds per 10 seconds when voltage below 11.5 Volt .



Tire pressure abnormality detected

Tire pressure abnormality detected on particular tire. Icons blink and two beeps sound per 10 seconds (lasted one minute).



Tire temperature abnormality detected

Tire temperature abnormality detected on particular tire. Icons blink and two beeps sound per 10 seconds (lasted one minute).



Tire sensor low battery

Warning icon appear when insufficient power (less than 2.6 Volt). Replace tire sensor battery for optimum performance.

6.1 Product Specifications

Heads-Up Display (HUD)		Tire Sensor	
Voltage (Volt)	9 ~ 16	Voltage (Volt)	3
Current (mA)	50 ~ 200	Battery type	CR1632
Working temperature (°C)	-40 ~ 85	Working temperature (°C)	-40 ~ 85
RF frequency (MHz)	433.92	RF frequency (MHz)	433.92
		Battery life	1 Year(※)

(※)The original sensor battery supplied with CR1632.

Battery usage life time depend on environment and battery brand and formula.

Disclaimer

The information provided in this user manual doesn't mean all inclusive. All user have to observe and comply to the vehicle manufacturer or tire manufacturer specification and all available safety regulation.

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.

