

Tire Pressure Monitor System

TP200 User Manual

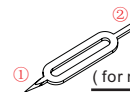
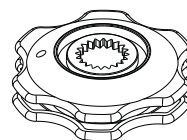
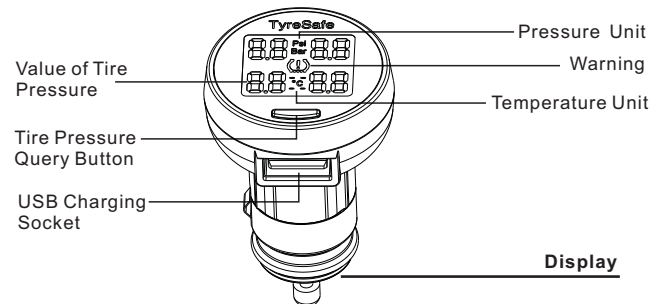


=====TPMS=====

CONTENTS

Packing List	1
Display Power On	2
Sensor Installation	3
Driving Checking	4
USB Charging Socket	4
Display Functions	5
Sensor Exploded View	8
Replace Sensor Battery	9
Code Learning	10
2 Ways to Exit Code Learning Mode	12
Pressure Unit Switching	13
Leakage Reasons of Nonstandard Tire Valve	14
Technical Parameter	15
FAQ	15
Notes and Statement	16

Packing List



① for pulling out the silicon seal ring
② for setting the silicon seal ring

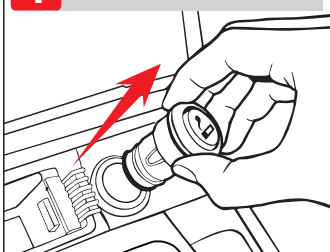


If the silicon seal ring is damaged, please replace it by the backup ring for avoiding leakage.

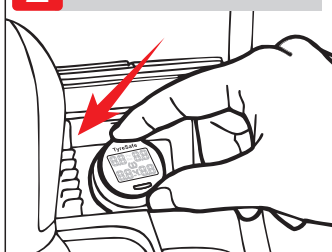
As shown in page 8 picture 3 - Replace Sensor Battery.

Display Power On

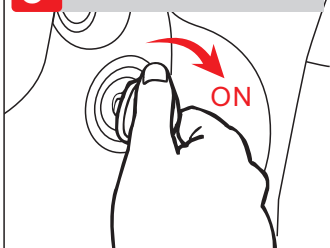
- 1** Pull out the cigar lighter



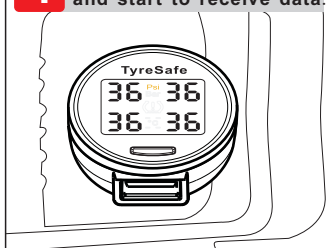
- 2** Plug in the display



- 3** ACC ON

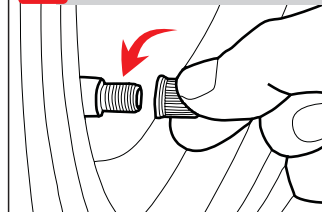


- 4** Display power on, and start to receive data.

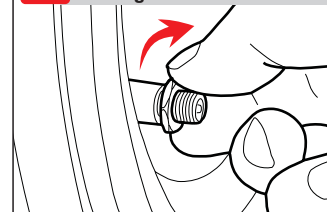


Sensor Installation

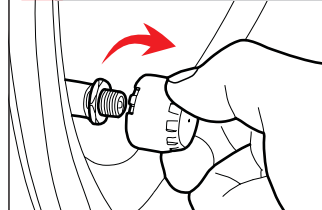
- 1** Backout dustproof cap of tire valve.



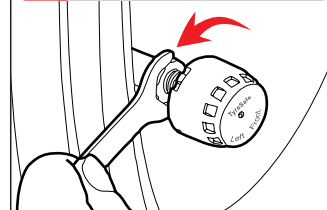
- 2** Screw-in the hexagonal nut.



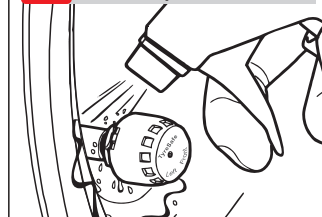
- 3** Screw-in the sensor in proper tire according to the mark in the shell.



- 4** Tighten the sensor by nut wrench in reverse direction.



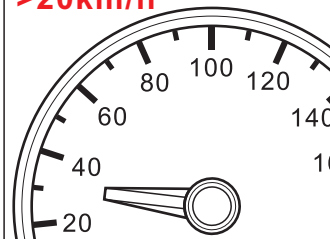
- 5** Check if it is leaking with soapsuds.



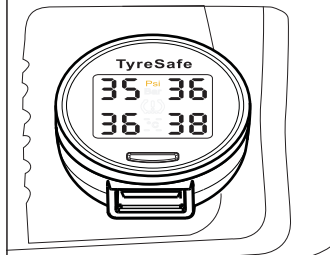
Driving Checking

1 When the driving speed is up to 20km/h, the display will update the data of tire pressure automatically.

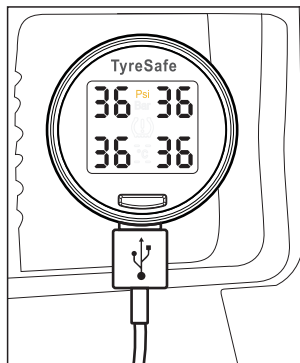
>20km/h



2 If all the 4 tire pressure data is shown



USB Charging Socket



With display power on

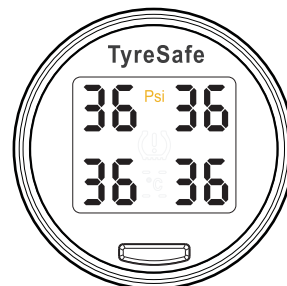
There is a USB socket in display, it can charge some portable products such as mobile phone or MP3 while the tire pressure monitor is working.

Output voltage: 5V
Output current: 1A

Display Functions

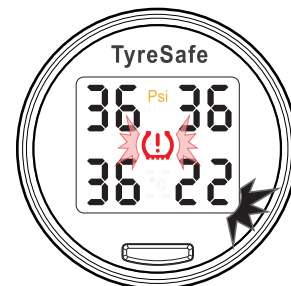
all 4 tire pressure data shown

The display will show all the tire pressure values right after the vehicle engine start.



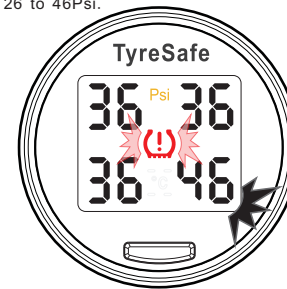
Leakage Warning Bi-Bi-Bi-Bi-Bi-

It means the tire may be stick by nail or aged.



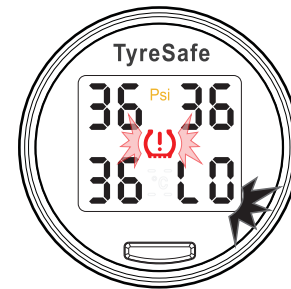
Abnormal Pressure Warning Above 46 Psi: Bi-Bi-Bi-Bi- Below 26 Psi: Bi-Bi-Bi-

The pressure is out of normal range 26 to 46Psi.



Sensor Battery Run Out of Power Bi---Bi---

The lifetime of sensor battery is over 3 years.

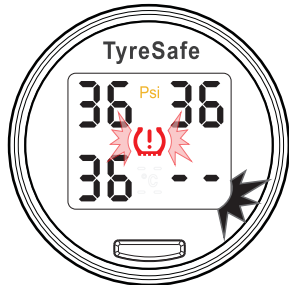


Display Functions

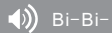
Sensor
Disabled



Bi-

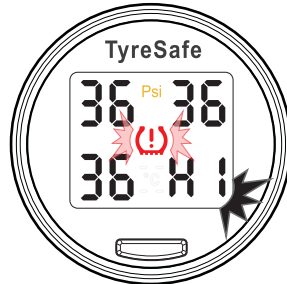


High Temperature
Warning



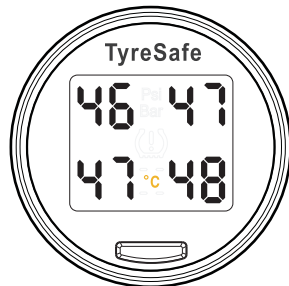
Bi-

The tire temperature is higher
than 65°C.



Temperature Query

Press the query button once, siren beep
once, the display will show as the follow
picture, and then go back to tire pressure
values after 4 seconds automatically.



The display will show temperature unit °C
if the tire temperature is above 0°C, and
will show °C if it is under 0°C.

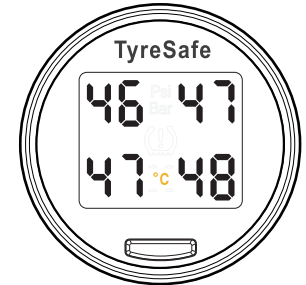
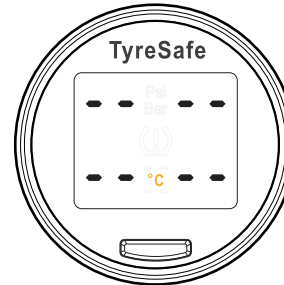


Display Functions

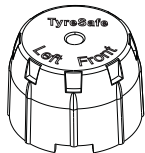
Temperature Range

Display will show temperature values
as below when power on.

- The detected temperature range is from
-40 to 99°C.
- The display will update the temperature
values only when driving speed is up
to 20km/h.



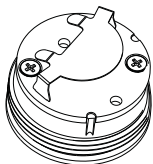
Sensor Exploded View



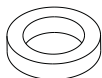
Shell



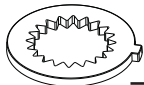
Button Battery CR1632



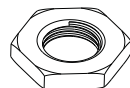
Sensor



Silicon Seal Ring



Anti-dismantle Locking Plate

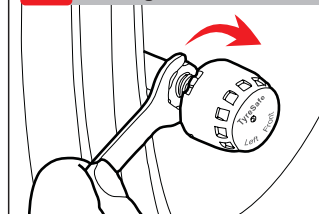


Hexagonal Nut

Replace Sensor Battery

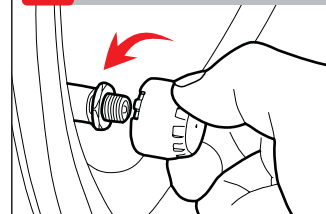
1

Loosen the hexagonal nut.



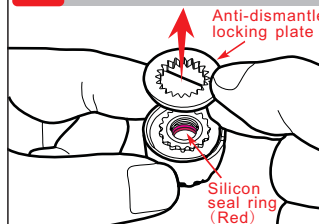
2

Backout the sensor.



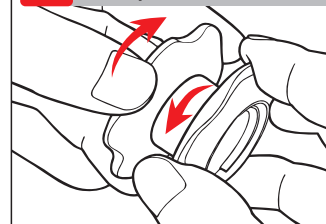
3

Take out the anti-dismantle locking plate.



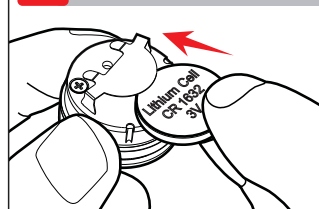
4

Backout the shell with uncap wrench



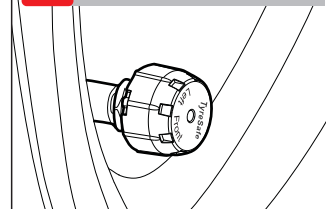
5

Replace the new button battery



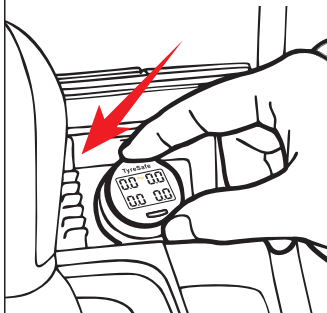
6

Assemble the sensor in reverse operation.

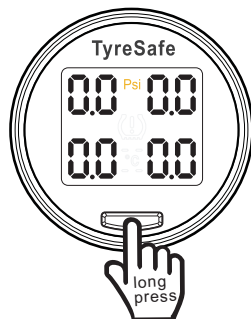


Code Learning

- 1** Before the sensor installed in tire, turn car key from ACC OFF to ACC ON, plug the display in the cigar lighter till it is working.



- 2** Press the query button until the display beep once and twice next and then release (beep once and release means pressure unit switching).

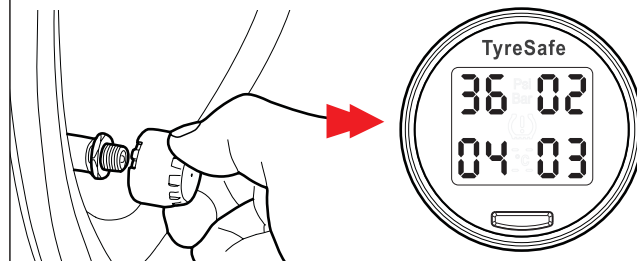


- 3** The display will show the order 01-02-03-04 for LF-RF-RR-LR sensors, and 01 starts to flash indicates LF sensor can be learned right now.

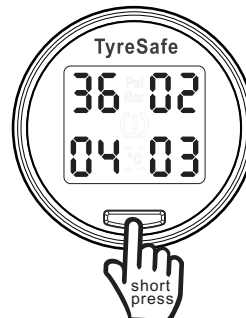


Code Learning

- 4** Install the LF sensor in left-front tire, display will beep once and show the tire pressure value after 10 seconds, which means LF sensor already learned successfully.



- 5** Press the query button once to enter the next sensor code learning.



Display 02 starts to flash, install the RF sensor in right-front tire.



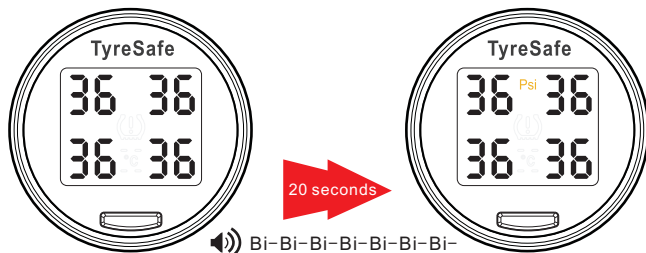
And repeat above steps for rest sensors.

★ If there is only one sensor need to be learned, press the query button one by one time until it shows the right tire.

2 Ways to Exit Code Learning Mode

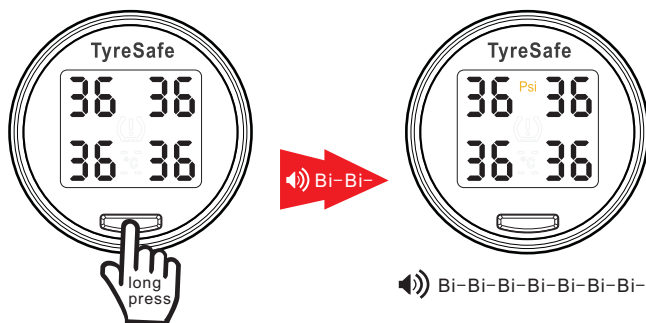
1

1. After 4 sensors are learned successfully, the system will exit code learning mode after 20 seconds automatically, and the display will beep 7 times.



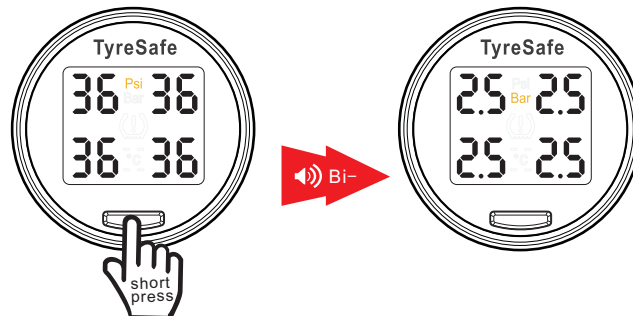
2

2. After 4 sensors are learned successfully, press the query button until it beeps once and twice next and then release to exit code learning mode, and the display will beep 7 times next.



Pressure Unit Switching

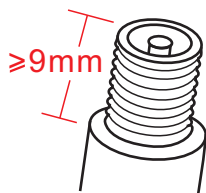
ACC ON, after display is power on, whenever press the query button until it beeps once and release, the pressure unit can be switched between "Bar" and "Psi". The factory default pressure unit is Psi.



Leakage Reasons of Nonstandard Tire Valve

Standard Valve

- The valve core is even with the edge.
- The valve thread length $\geq 9\text{mm}$



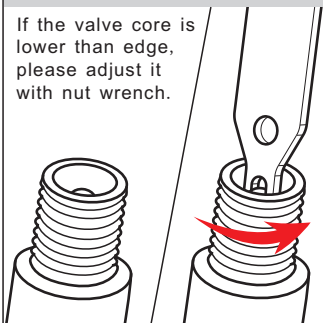
Leakage Reason 1 of Nonstandard Tire Valve

The breach in the valve may cause the leakage, please replace it with a standard valve.



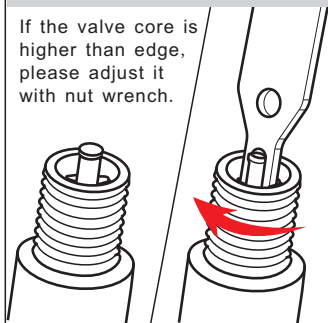
Leakage Reason 2 of Nonstandard Tire Valve

If the valve core is lower than edge, please adjust it with nut wrench.



Leakage Reason 3 of Nonstandard Tire Valve

If the valve core is higher than edge, please adjust it with nut wrench.



Technical Parameter

Sensor

Sensor Weight: <10g
 Pressure Range: 0Psi-51Psi / 0Bar-3.5Bar
 Battery Model: GR1632H
 Battery Lifetime: >3 years
 Static Current: < 0.7 μ A
 Operating Current: < 12mA
 Operating Temperature: -40°C ~ +125°C
 Pressure Error: $\pm 1\text{Psi}$ / $\pm 0.1\text{Bar}$
 Temperature Reading Accuracy: $\pm 2^\circ\text{C}$
 Operating Humidity: 5~98%

Display

Input Voltage: 12 \pm 3V
 Static Current: < 30 mA
 Operating Temperature: -40°C~+85°C
 Operating Humidity: 5~98%

FAQ

Sensor Interface Leakage

It is usually caused by nonstandard tire valve, please replace it with a standard one in tire store.

Display Not Working

There is no 12V power in cigar lighter socket, please check related fuses.

Sensor Missing

Please buy sensor from our company and reset it.

Battery Out Of Power

Please replace a new button battery CR1632

Tire Position Exchange

The sensor must be exchanged according to the mark in the shell after exchange the tires position.

Notes and Statement

- This system is only suitable for vehicle that tire pressure is no more than 3.5Bar, which with 12V power.
- The tire safety can not be only relied on this system, vehicle user should inspect the tire regularly in case of nail sticking or any breaking.
- Please stop the vehicle to check as soon as the system starts warning.
- This system can not predict the suddenly damage by outside force.
- Please don't operate this system when driving.
- The display can only work normally when power is on.
- The sensor lifetime is related to vehicle driving mileage, and it can be shortened when working under -20°C temperature.
- The tire temperature will get higher when driving, and the tire pressure will be 0.1 to 0.3Bar higher accordingly.
- Please park the vehicle properly, our company do not take responsibility of sensor stolen.

Federal Communications Commission (FCC) Interference

Statement

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 generate, 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 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.

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.

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

RF exposure warning

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment must not be collocated or operating in conjunction with any other antenna or transmitter.