

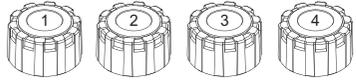
External Sensor

During sensor installation please check and make sure there are no cracks or aging on the tyre valve, and should be checked regularly to enhance driving safety.

1. THE INSTALLATION OF TIRE PRESSURE SENSORS

As each sensor has its own position, you have to make sure it's in the pre-set position. When inserting batteries in every sensor, please don't mix up sensor caps and every sensor has their own positions. Please check the sensor map for guidance for user to install.

- (1) means " Front Left Tire ".
- (2) means " Front Right Tire ".
- (3) means " Rear Left Tire ".
- (4) means " Rear Right Tire ".



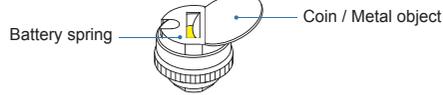
⚠ Make sure sensor body does not mix up with other sensor cap.

Note:

Due to the sensor consuming very small battery power, so that the remaining battery power could be retained for some time. In the event the sensor resets or causes malfunctions, battery replacement may be recommended. Power will need to be discharged from the sensor, please follow these steps:

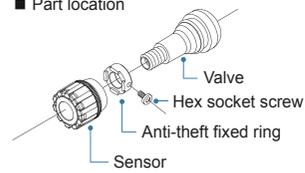
- A. Use a metal object, such as coins, keys... etc., insert into the sensor at the same time touching the battery metal holder and yellow color area (battery holders negative), to achieve the power discharge. As shown in the photo.

- B. Then re-insert the new CR1632 lithium battery into sensor.



2. ANTI-THEFT TOOL FOR SENSOR (OPTIONAL)

■ Part location

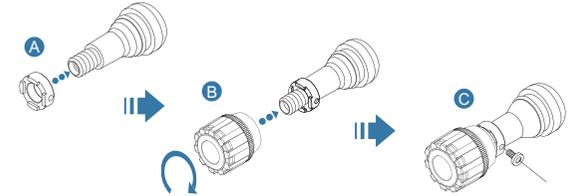


⚠ Screw and ring tighten distance is 0.7mm.

⚠ Make sure the screw is facing outward.

※ Hex key size : ϕ 2.5mm

- A. Place the ring on the valve.
- B. Install the sensor (turn 5~7 times).
- C. Use hex key to tight anti theft ring (torque 0.71kg-cm (6.95N.cm)) make sure the ring is not loose.

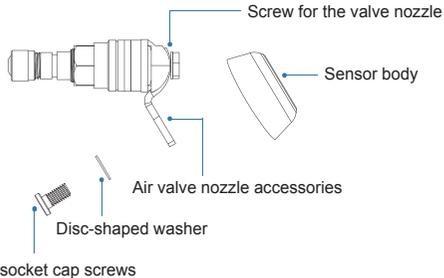


Internal Sensor (Not Available in Australia/New Zealand)

1. THE INSTALLATION OF INTERNAL SENSORS

Insert disc-shaped washer into the hex socket cap screws, then assemble the valve nozzle with sensor body and tight it with hex key. (Recommended torque is around 1.7N · m)

After complete installation, please make sure the Hex socket cap screws is tight.



Valve stem color (Red · Yellow · Green · Blue)

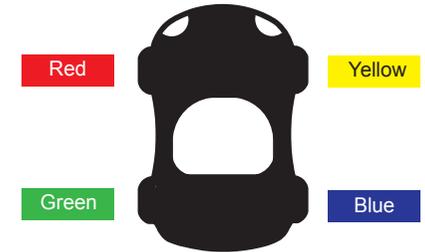


Relative wheel position
Red→1 · Yellow→2
Green→3 · Blue→4

⚠ Please verify the internal type sensor position and the valve stem color to avoid Mistransplant.

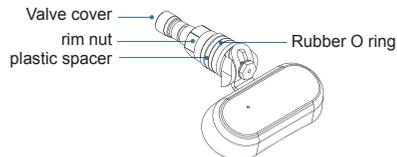
As each sensor has its own position and color, you have to make sure its pre-set position. Every sensors have own positions and sensors map could give guidance for user to install.

- Red means " Front Left Tire ".
- Yellow means " Front Right Tire ".
- Green means " Rear Left Tire ".
- Blue means " Rear Right Tire ".

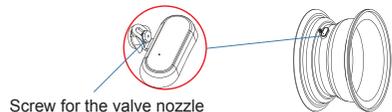


2. THE INSTALLATION OF INTERNAL SENSORS

- A. Disassemble the wheel from the car.
- B. Deflate the disassembled wheel.
- C. Use tire changer to take apart the tire and rim.
- D. Take out the old valve from rim.
- E. Screw off the Valve cover, rim nut, plastic spacer and Rubber O ring on the sensor.



- F. Use a open-end 7mm wrench to loose the valve nozzle screws, and then follow the instruction photo below to insert the sensor to a proper location on the rim, and adjusted to the proper angle, and then tighten the valve screw. (Recommended torque is around 1.7N · m)



Screw for the valve nozzle

After complete installation, please make sure the screw for the valve nozzle is tight.

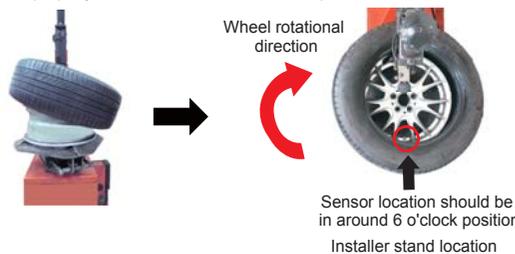
- G. Fix the sensor on the rim by screwing the rim nut onto the sensor. Do not use destructive force to fix the rim nut for protection from damage. (Never use excessive force to avoid damage to the sensor recommended torque is around 0.9N · m)



- H. Install the tire on the rim steps are as following

Precaution: avoid the tire bead touching the sensor.

- (1) Place the sensor on tyre remover machine and to adjust the position of the rotating platform on the 6 o'clock position then install the tire properly in clock wise direction. As the picture shown.



Wheel rotational direction

Sensor location should be in around 6 o'clock position
Installer stand location

- (2) Refitting the tire bead, please place the sensor approximately 7 o'clock position as the picture shown.



Sensor location should be in around 7 o'clock position
Installer stand location

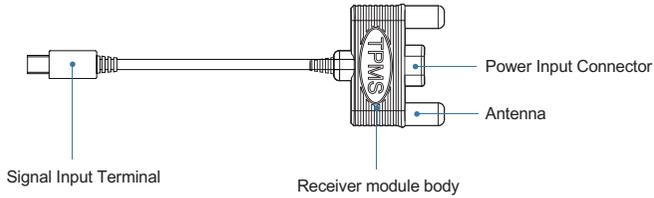
- I. Use tire changer to fit the tire on the rim, then inflate the tire with standard tire pressure, so monitor will show the real time tire pressure value.
- J. Spray soap water around the valve stem area to check for air leakage.
- K. Make balancing testing and correcting for wheel on the balancing machine.

Note:

- It is necessary to ask for the assistance from a professional for the tire installation.
- It needs to adjust the tire position to fit or disassemble the tire, so that the sensor can be kept away from the running location of the tire changer to prevent any damages on the sensor.
- Every sensor has its separately specific marking for different tire position, please make sure to install the sensor to each tire in order.
- The sensor is an electronic detector powered by a lithium battery. If there is insufficient power in the sensor, the sensor will send back insufficient power code to the receiver module. If the power is insufficient, need to replace a new sensor to ensure the normal operation of the system to update the correct tire information.

1. LOCATION OF OUTLOOK

Receiver Module Description



2. SENSOR RUNS OUT OF BATTERY

The sensor is an electronic detector powered by a lithium battery. If there is insufficient power in the sensor, the sensor will send back insufficient power code to the receiver module. If the power is insufficient, the external sensor recommends to replace the lithium battery to ensure the normal operation of the system to update the correct tire information.

3. SETTING ADVANCED - LEARNING MODE

This feature is mainly supplied to the solution when the sensor is missing. Because the monitor can only identify the same ID group of sensors, other sensors can't be read, then just order a new sensor and re-learning the new sensor.

- First, install the sensor on the tire.
- The receiver module is connected to the DVR power is remained and the DVR is with power on.
- Switch the DVR to "learning mode setting" which will enter the receiving mode for new sensor signal.
- Under the learning mode if the sensor signal input, you can re-identify the new sensor. The recommended practice is to reinstall the sensor battery to ensure that the signal is sent immediately.
- After learning, the DVR inputs "confirm" command to the receiving module to exit from the receiving mode.

4. PRECAUTIONS

- Due to rubber valve stem aging under high temperature and expose under the sun, which may cause crack on the rubber stem, therefore, we recommended metal type of valve stem.
- Please double confirm if sensors are fitted tightly. If necessary, please spray soapy water on the valve stem to check any air leakage.
- If tire pressure is getting down or dropping quickly, please stop car immediately to find out if tire is deflated or another problem is happening.
- Please make sure if your sensor has mixed with other systems. As each sensor has its unique identified number and monitor can only receive pre-loaded identified number and cannot accept other new identified number.
- The external sensor battery is lithium battery CR1632, please select the correct model. Lithium battery caution:
 - Do not clip with metal object.
 - Can not swallow, recharge or throw into fire.
- Please do not operate this device while you're driving.

5. TROUBLE SHOOTING

- Indications disappear from / do not appear in the MiVUE display
 - There is a certain limit transmitting range between sensor and module. Please confirm if the sensor is within the receiving range.
 - Be sure to observe the correct polarity when installing the batteries.
 - When the sensor battery is out of power, under long period of usage. It is recommended to replace new battery for external type sensor.
 - Reinstall the sensor battery. After removing the sensor battery, conduct discharge process to the sensors, this purpose is to reset the sensor.
 - Please make sure if your sensor has mixed with other systems'. As each sensor has its unique identified number and monitor can only receive pre-loaded identified number and cannot accept other new identified number.
 - The receiver module is recommended to install on an open space such as a windshield to get the best signal reception.
- Receiving module without signal
Receiving module needs to be used with MiVUE DVR.
- Many environmental factors cause tire pressure rise and drop as well. For example, hot weather or warm tire will lead rising tire pressure.
- Sensor temperature difference**
Running engine, exposure under the sun, constant braking or near high temperature and other factors, can easily make sensor heat conditions inconsistent and cause the difference in temperature measurement.
(Please ensure you set your temperature pressure limit to factor in for changes from cold to hot temperature. If you are unsure of your tyre's cold and hot temperature pressure recommendations, please check your vehicles user manual.)
- If these solutions do not help improve the situation, consult your nearest dealer.

6. PRODUCT SPECIFICATION

Receiver Module			
Frequency	433.92MHz	Operating voltage	5Volts ~ 12Volts DC
Effective receiving distance	30m	Dimensions	Length 45mm × Width 40.8mm × Height 11.5mm
Operating temperature	-20℃ ~ 80℃	Weight	13.5g (±1)
External Sensor			
Frequency	433.92MHz	Operating voltage	3Volts DC
Pressure range	0 ~ 60PSI	Dimensions	Diameter 20.8mm × Height 22.7mm
Pressure accuracy	±1PSI	Weight	13g (±1)
Operating temperature	-40℃ ~ 125℃	Temperature accuracy	±2℃
Internal Sensor			
Frequency	433.92MHz	Pressure accuracy	±1PSI
Pressure range	0 ~ 60PSI	Weight	36.9g (±1)
Operating temperature	-40℃ ~ 125℃	Dimensions	Length 60.4mm × Width 27.6mm × Height 11.7mm
Temperature accuracy	±2℃	Angle adjustable valve stem	43°

7. PRODUCT PACKAGE CONTENT - EXTERNAL

Items	Content	Quantity
Receiver Module		1 piece
Tire pressure sensor		4 pieces
CR1632 lithium battery		4 pieces
User guide		1 piece
Anti-theft tool		Spanner 1 piece
		Anti-theft fixed ring 4 pieces
		Hex socket screw 4 pieces

8. PRODUCT PACKAGE CONTENT - INTERNAL

Items	Content	Quantity
Receiver		1 piece
Sensor body		4 pieces
Air valve nozzle accessories		4 pieces
Hex socket cap screws		4 pieces
Disc-shaped washer		4 pieces
Hex key		1 piece
User guide		1 piece

※Specifications are correct at time of publication. Subject to change without notice.