

# Tire Pressure Monitoring System

## Installation and Operating

## Instructions

### Model: TX011

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## **1、 Product Introduction**

- (1) TX011 contains highly accurate sensors to detect tire pressure and temperature; and RF modules send data via radio wave to the digital receiver placed in driver's cabin.
- (2) TX011 starts to detect pressure and temperature automatically when the vehicle is in motion. Pressure and temperature data will be showed on the LCD screen of digital receiver. If the pressure and temperature go wrong, the driver will be warned with LCD backlight, beep, and flashing numbers. Therefore, the driver can take action immediately.

## **2、 Safety Notice**

- (1) Tire pressure monitoring system is a vehicle safety warning system. Please follow installation guide and instruction carefully. When the system sends out warning signals, please check your tires immediately.
- (2) This product has to be properly installed and programmed by professional technician.

## **3、 Vehicle Application**

This product is suitable for passenger cars and trucks of 4 wheels.

## 4、 Installation of Transmitter

Attention:

Transmitters must be installed by professional technicians. The technicians have to follow the installation guide step by step to install transmitters correctly.

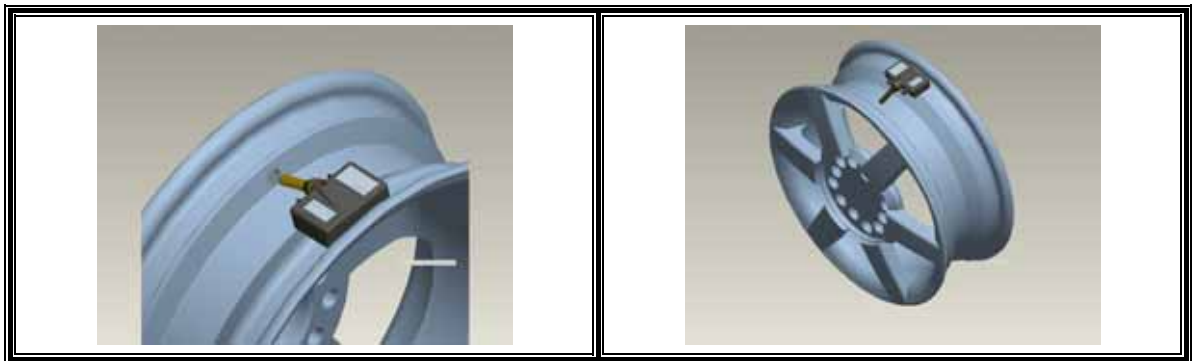
**Following tools and instructions are for technicians, not for end users.**

**Tools :**

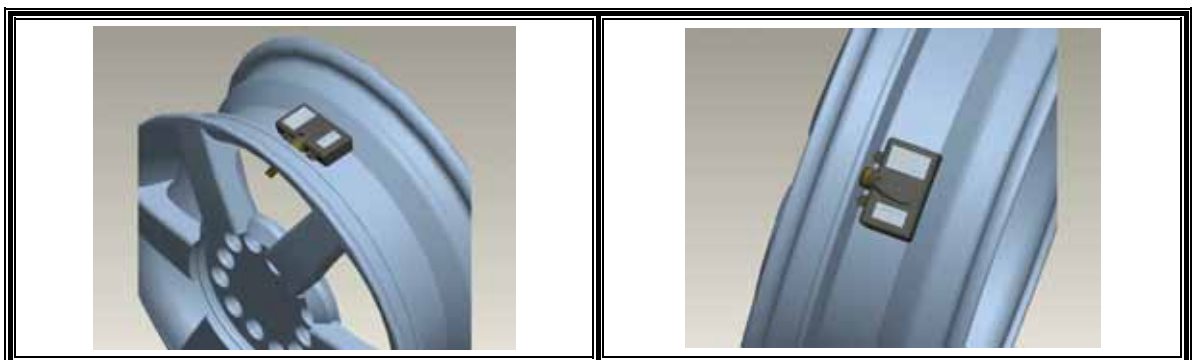
- Tire Changer
- Wheel Balancer
- Pliers
- Other Hand-tools

### 4.1 Fasten Transmitter on the Wheel Rim

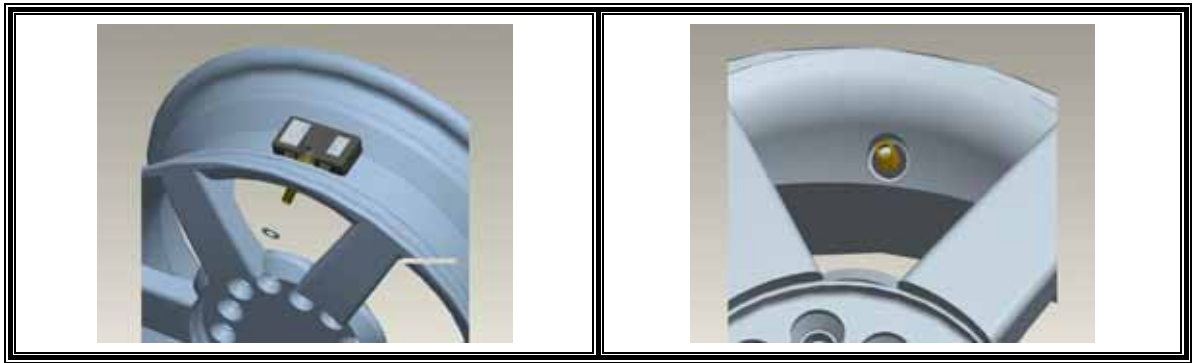
4.1.1 Prepare the Transmitter to pass through the valve hole which is positioned on the steel, aluminum or aluminum alloy wheel rim.



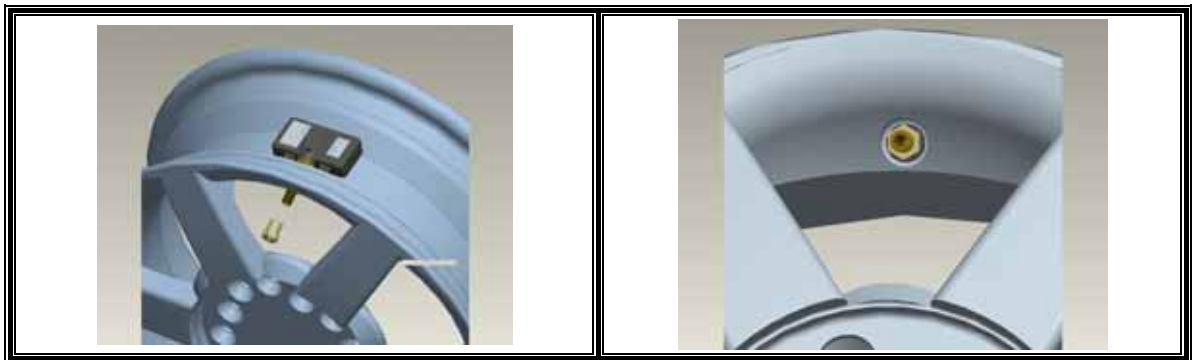
4.1.2 Pass the Transmitter through the valve hole and the rubber circle will push up the inside of the valve.



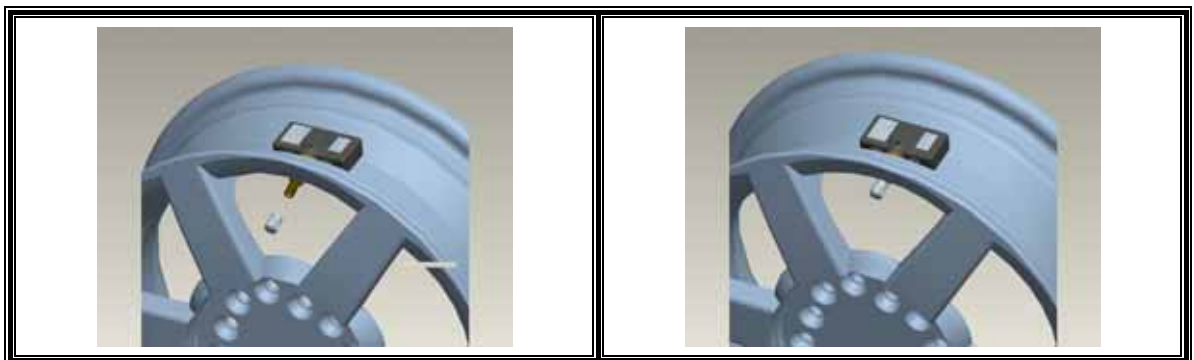
4.1.3 Attach the **Washer** that is the spare part of Transmitter from the outside of the wheel rim onto the valve hole.



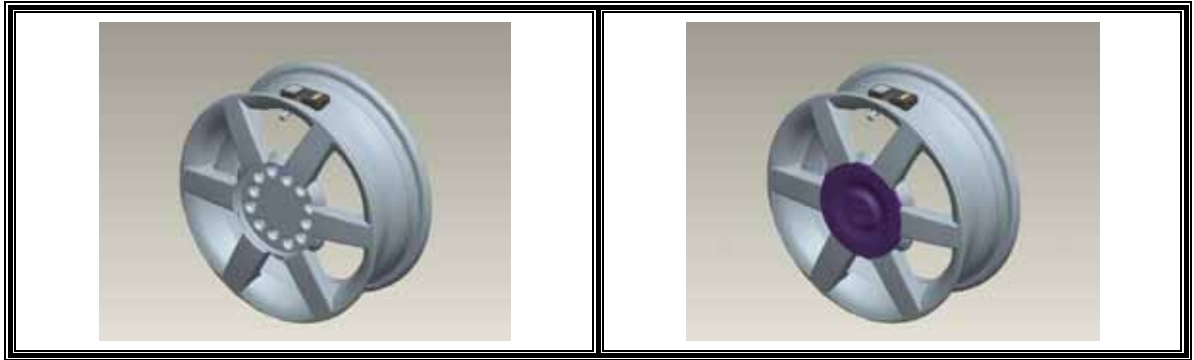
4.1.4 Attach the **Nut** that is the spare part of the Transmitter from the outside of the wheel rim onto the valve hole. ( Recommendatory Torque to attach the Nut: 35~45 Kgf.cm )



4.1.5 Attach the Cap that is the spare part of Transmitter from the outside of the wheel rim onto the valve hole.

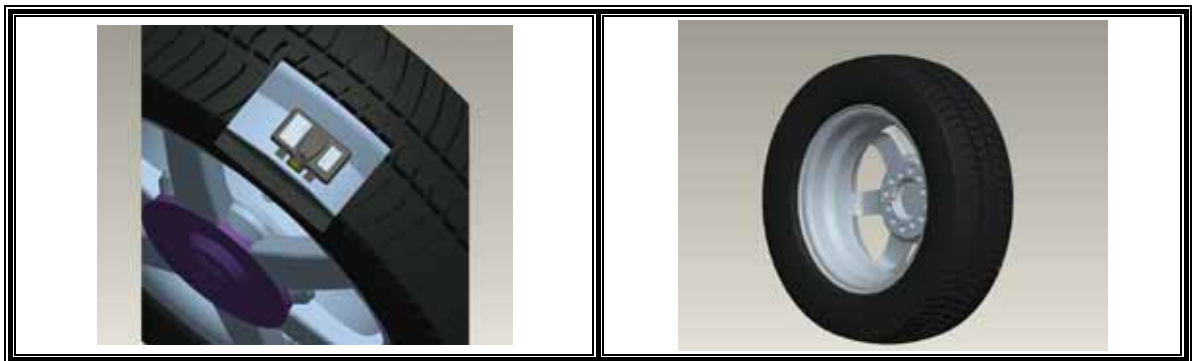


#### 4.1.6 Finalize the installation of the Transmitter.



#### 4.1.2 Installation of the Tire

Please install the product with standard installation equipment, and installation procedures could be proceeded by the technicians from the purchasing place or the authorized installation ort. Moreover, we would like to suggest general consumer should cooperate with the seller or the responsible people from the authorized garage, if he wants to install the product by himself, and it should be a must that he has gotten the professional training in advance. If general consumer without authorization damages the product, we will not warrant any replacement or limit warranty.



#### 4.1.3 De-Mounting Tire with Transmitter Inside

Please demount the product with standard demounting equipment, and demounting procedures could be proceeded by the technicians from our appointed vehicle manufacturer or garage. In addition, we would like to suggest general consumer should cooperate with the seller or the responsible people from authorized garage, if he wants to demount the product by himself, and it is a must that he has gotten the professional training in advance. If general consumer without authorization and damage the product, we will not warrant any replacement or limit warranty.

## 5. Limit Warranty

Mobiletron, hereby warrants that this Mobiletron wireless tire pressure monitoring system shall be free from material defects in workmanship and/or materials until the expiry of twelve months from its purchase by the end user, EXCEPT WHERE any such defect has been caused by: Improper or non-normal use, Improper installation, contacts with any corrosive or otherwise harmful substance, any other acts or omission not sanctioned by the User Manual.

- Mobiletron's sole obligation shall be to repair or replace the defective product at no charge to the original owner.
- Mobiletron cautions the user or driver of the driving safety by the limited warning signal range, and does not protect or take the responsibility of the user's or driver's safety directly.
- In no event will Mobiletron be liable for any direct, indirect, special, incidental or consequential damage, including loss of profit, loss of savings, or any other damages caused by this product, or its documentation, or failure of the product to perform, even if Mobiletron has been advised of the possibility of such damages.

### 5.1.1 Warranty Service

- (1) The above warranty will be honored by the retailer from which it was purchased, provided that the owner can provide dated proof of purchase.
- (2) In the event that any defect in the unit is covered by the above warranty, Mobiletron will replace the affected components free of charge, shipping prepaid. The owner shall be responsible for any labor and installation costs incurred in removing the defective parts and/or installing the replacement.
- (3) The retailer shall at Mobiletron' cost send any unit which is defective as described in the above warranty to Mobiletron at No.39, Sec 3, Chung-Ching Rd., Ta-Ya, Taichung Hsien, Taiwan 428.

### 5.1.2 What Are Not Covered

- (1) Products that have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not authorized by Mobiletron.
- (2) Damage that occurs in shipment or due to an act of God.

## 6. Things to Notice

### Temperature Compensated Pressure Readings :

When a tire heats up, caused by long duration of driving or braking, the air pressure inside the tire can also be expected to increase, e.g. tire temperature increases 20 to 30 may lead to 3psi to 6psi pressure increment.

## 7. Technical Specifications

### 7.1 Operation Condition

Description	Value	Accuracy	Units
Pressure Range	0 ~ 80	+/- 2	PSI
Rated Pressure	240	-	PSI
Operating Temperature	-40 ~ +125	+/- 3	
	-40 ~ +257	+/- 5	
Operating Humidity	0 ~ 100	-	%

### 7.2 Radio Frequency Transmitter

Description	Value	Units
Central Frequency	433.92	MHz

### 7.3General Specification

Description	Value	Units
Sensor Sampling Rate	4	Second
Weight	38	Gram

### 7.4 Power

Description	Type	Value	Units
Power Source	Lithium Battery	3.6	Vdc
Battery Life	-	7years or Over 2,000,000 km	Year or km

## Manufacturer: Moniletron Electronic ,Inc.

Address : No.39, Sec 3, Chung-Ching Rd., Ta-Ya, Taichung Hsien, Taiwan 428

Telephone : +886-4-25683366

Fax : +886-4-25673069

Web Site: <http://www.more.com.tw>

## **FCC statement in User's Manual (for class B)**

### **"Federal Communications Commission (FCC) 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 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 Caution:

1. The 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.
2. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.
3. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.