

Tire Pressure Monitoring System

Installation and Operating Instructions

Model: LF004

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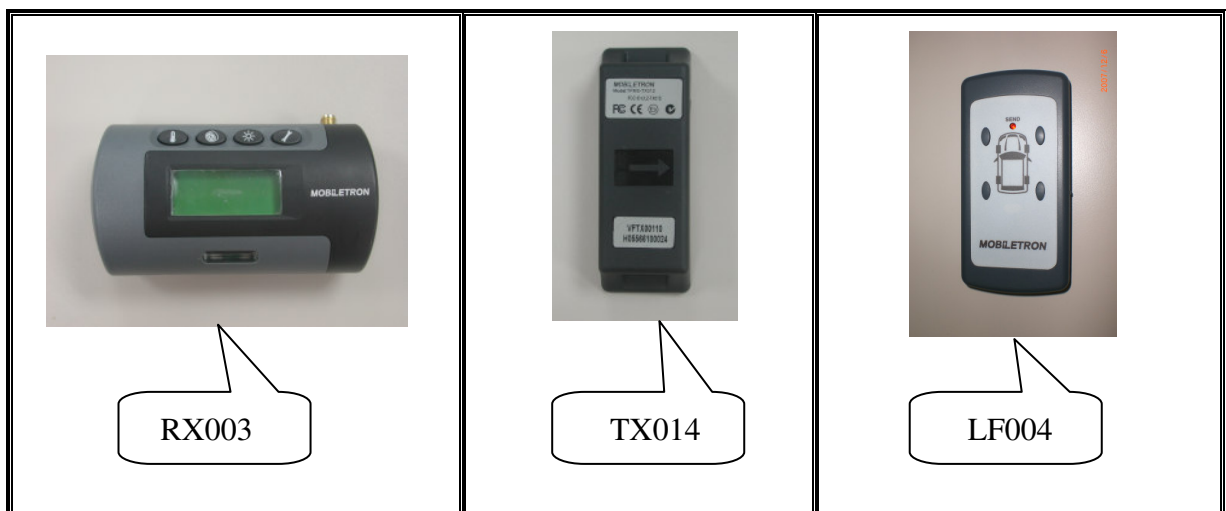
1 、 Product Introduction

LF004 is a controller, used to set transmitter ID of every wheel to LCD screen of digital receiver.

Take the models of TX014 and RX003 to help explain how to use LF004 completely.

- **TX014 : a kind of transmitter**
- **RX003 : a kind of LCD screen of digital receiver**

TX014 contains highly accurate sensors to detect tire pressure and temperature. Before installing TX014 on the Wheel Rim, receive and set TX014 ID Mode to RX003 by using LF004. RF modules send data via radio wave to RX003 placed in driver's cabin. when the vehicle is in motion, TX014 starts to detect pressure and temperature automatically. Pressure and temperature data will be showed on RX003. 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 、 Installation of Transmitter


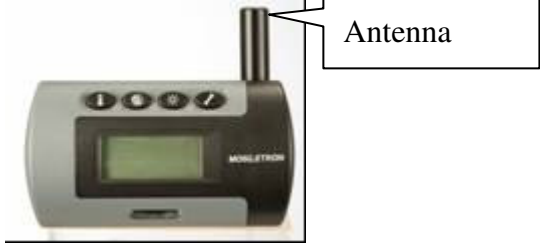
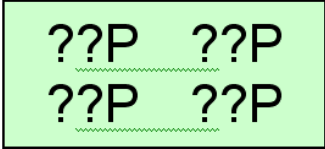



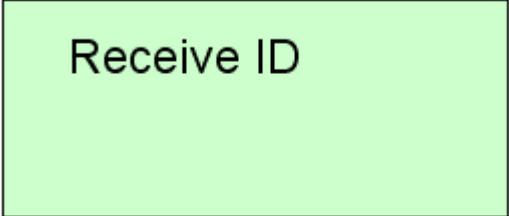

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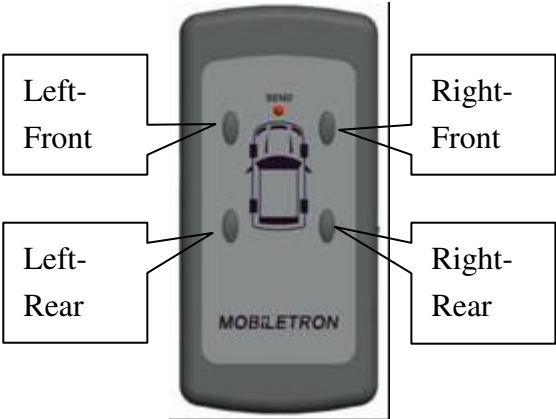
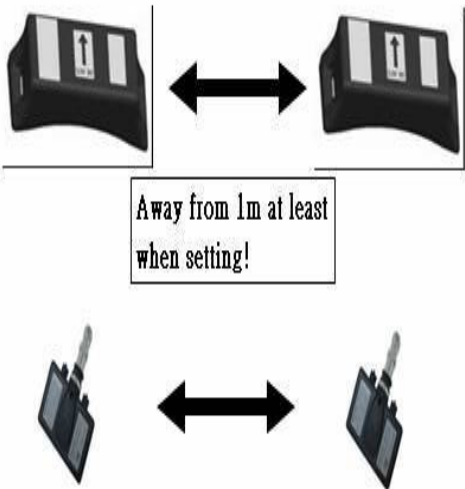

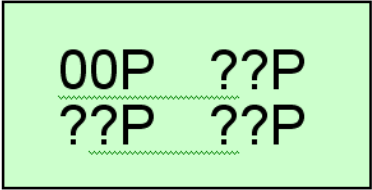
Transmitters must be installed by professional technicians. The technicians have to follow the installation guide step by step to install transmitters correctly.

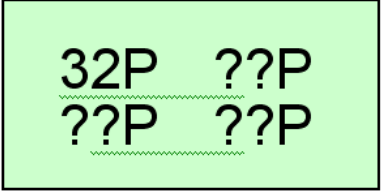

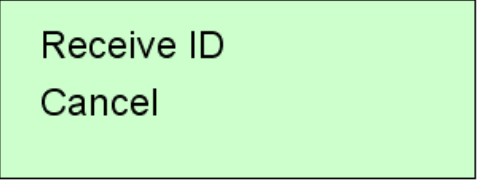

Following tools and instructions are for technicians, not for end users.

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

2.1 Receive ID Mode---LF004 setting for clamp transmitter


<p>1. Put the 12DCV POWER CABLE to the Receiver.</p>	 <p>Power Plug</p>
<p>2. Tighten the Antenna.</p>	 <p>Antenna</p>
<p>3. Check if the LCD of the Receiver shows “??P”.</p>	
<p>4. Simultaneously press button  and  for more than 2 seconds to enter “Receive ID Mode”.</p>	
<p>5. Check if the LCD of the Receiver shows. “Receive ID”.</p>	
<p>6. Turn on the LF004.</p>	

<p>7. Select one of the tires you want to set up. ※NOTE: The signal active distance of LF004 is 0.3m.</p>	
<p>8. Put LF004 near the transmitter at least 30mm. 9. We suggest that installing the tire after setting. 10. ※IMPORTANT: When setting, please keep other transmitter away from the setting transmitter at least 1m. ※NOTE: If you are not sure it receives the signal or not please do it again or refer to Item 2.3 “Manual input new transmitter ID code”</p>	
<p>11. Push the button of “ENTER” And the “SEND” LED will flash.</p>	
<p>12. Then the receiver will receive the signal and show “00P” (No pressure)</p>	

<p>13. If the transmitter is already in the tire, you will see the tire pressure.</p> <p>14. ※IMPORTANT: If you want to check the tire as usual ,you may push any button of LF004 and RX003 will show the pressure(The signal active distance of LF004 is 0.3m)</p>	
<p>15. After setting, push button  the LCD of the Receiver shows “Receive ID Cancel”</p>	
<p>16. As the voltage is below 2.3V, pushing any button will make the “SEND” LED flash every 4secs.</p>	

NOTE : The value above is for reference.

2.2 Start to install TX012

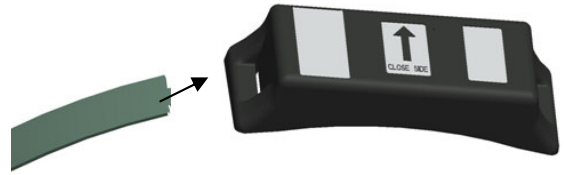
<p>1. Please follow the standard procedures to dismount tire from rim.</p>	
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2.

Install the clamp.

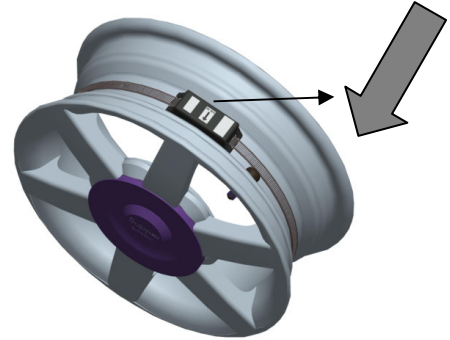
※IMPORTANT

Before install the clamp, please check if the ID of the transmitter had been set up .



3.

Make sure arrow on the transmitter point to rubber valve side.



4.

Put the transmitter in the lowest area of the rim or drop center, and beside valve. Tighten the strap. (Torque must over 0.35 kfg-m)

Suggestion:

Place lock of strap opposite to transmitter mounting position for better tire rebalancing.



5.

Cut excess strap off to approximately one 1inch (25mm); blunt sharp cutting edge.



6.

Wheel Balancing is required after transmitter installation.



7.

Reverse the above steps to remove a transmitter.















Suggestion:

Tell technician that you have installed TPMS before he changes the tire.



2.3 Special set up : Manual input new transmitter ID code

(Please contact with us)

<p>1. Simultaneously press button  and  for more than 2 seconds to enter “Special Set Up Mode”.</p>	<p>2. Use button  (act as downward button) and button  (act as upward button) to select “New ID Input” setting ; Press  button to confirm.</p>
<p>3. LCD Display will show :</p> <div data-bbox="284 1216 552 1335" style="border: 1px solid black; padding: 5px; text-align: center;">New ID Input</div>	<p>4. Use button  (act as downward button) and button  (act as upward button) to move → cursor to select the tire location for ID input ; Press button  to confirm.</p> <div data-bbox="962 1238 1225 1357" style="border: 1px solid black; padding: 5px; text-align: center;">→01 02 03 04</div>
<p>5. Use button  (act as downward button) and button  (act as upward button) to select a number ; Press button  to confirm then move to the next number ; Press  button to cancel.(The ID below is for reference)</p> <div data-bbox="308 1742 576 1861" style="border: 1px solid black; padding: 5px; text-align: center;">ID : 5B5B 5888</div>	<p>6. Double check input ID number to ensure it is identical to that on the Label of new Transmitter ; Press button  to confirm and complete the setting. Then install the transmitter in the associated tire</p> <div data-bbox="962 1742 1225 1854" style="border: 1px solid black; padding: 5px; text-align: center;">OK</div>
<p>7. Press button  again ; LCD Display will return as initial display.</p> <div data-bbox="818 1955 1082 2067" style="border: 1px solid black; padding: 5px; text-align: center;">32P 32P 32P 32P</div>	

3. 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 warrants the wireless tire pressure monitoring system product for twelve months from the end user purchase date under normal operation condition, which is free from manual improper operation, improper installation or any casualty.
- Mobiletron's sole obligation shall be to repair or replace the defective product at no charge to the original owner.
- Mobiletron warns 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 product, or its documentation, or failure of the product to perform, even if Mobiletron has been advised of the possibility of such damages.

3.1 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.

3.2 This Limited Warranty Provided by Mobiletron Does Not Cover

- (1) Product that have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, improper transportation, repair or service in any way that is not authorized by Mobiletron.
- (2) Any damage attributable to fire, flood, lightning strike or act of God.
- (3) This limited warranty coverage will exclude the package material and user manual.
- (4) The damage caused from benzene, alcohol or any corrosive cleaner.
- (5) Any repair should implement in Mobiletron by returning from the Mobiletron authorized retailer. Any repair without authorization will be excluded from the warranty.

4. Things to Notice

Be sure to keep record of the Transmitter ID number for each of the corresponding four tires on the last page. Because next time if the original Transmitter is replaced by a new one, inputting the original Transmitter ID number to the new one should be a must.

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°C to 30°C may lead to 3psi to 6psi pressure increment.

5. Technical Specifications

5.1 Operation Condition

Description	Value	Accuracy	Units
Operating Temperature	-20 ~ +60	± 3	°C
	-4 ~ +140	± 5	°F
Storage Temperature	-20 ~ +60	-	°C
	-4 ~ +140	-	°F
Operating Humidity	0 ~ 100	-	%

5.2 Radio Transmitter

Description	Value	Units
Central Frequency	125	KHz
Sampling Rate	4	Second
Range	30	Cm

5.3 General Specification

Description	Value	Units
Dimensions	117.5*57.4*15.27	mm
Weight	80	Gram

5.4 Power

Description	Type	Value	Units
Power Source	Lithium Battery	3.6	Vdc
Battery Life	-	2	year

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 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.