

# Notice

## System Scope of Use and Warnings

### ■ System Installation and Usage

The use of the TPMS requires qualified personnel according to the instructions to have properly installed it. This system is suitable for use on a passenger car, SUV and 4X4 tires, with up to maximum cold inflation pressure of 600kPa=87 psi (Gauge) or 700kPa=101psi (Absolute), below instruction is Gauge value mentioned.

### ■ Reacting to Alerts

When an alert or warning is received, drivers has sufficient time to reduce vehicle's speed and proceed to a safe location to stop where the tire can be inspected and /or serviced.

### ■ Standard Cold Tire Pressure Factory Default

W408 standard cold tire pressure factory default is 35psi. Please go to the Setup mode before installation to set, but based on driving safety the modify range will be 27~50psi. When the pressure is higher or lower than 25% from the standard cold tire pressure setting value, the system will start give warning.

### ■ Chemical Usage

It is prohibited to use emergent repair tire sealant or similar product to repair tire after installation of TPMS product, due to repair tire sealant may block sensor air pressure detection hole and make it lose effectiveness.

## TPMS Accessories

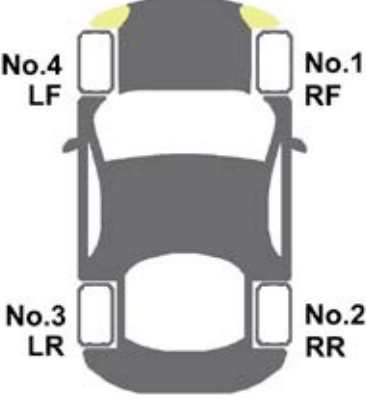





Accessories	Pictures	QTY	Accessories	Picture	QTY
Receiver Module		1	Remote Control		1
Tire Sensor		4	Aluminum Valve		4
Nylok Screw		4	AV/DVD Signal Cable		1
Trigger Cable(in)			Trigger Cable(out)		
CR2025 Battery		1	User Manual		1
Velcro		1			





✘Any defects or shortage of the above accessories, please feel free to contact with ORO Technology for repair and service.




## Signal Description

bar	Pressure value, 1bar=0.1N/mm <sup>2</sup> (Newton=kg x acceleration gravity, mm <sup>2</sup> Km square area)
psi	Tire pressure value, 1psi=0.0689bar
kPa	Tire pressure value, 1kPa=0.01bar
°C	Degree C value, Degree C = (Fahrenheit-32)*5/9
°F	Fahrenheit

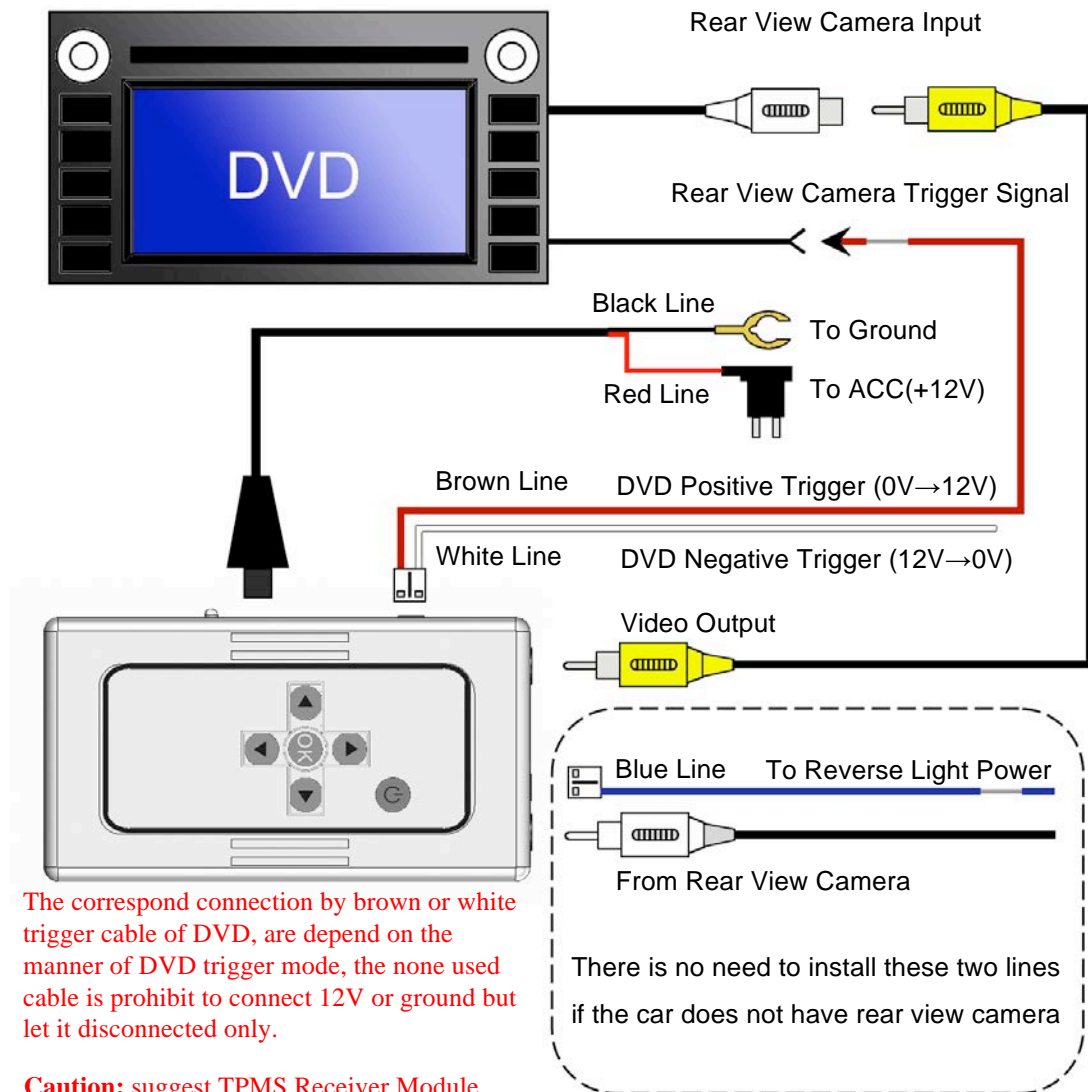
## Tire Sensor Installation

Step	Operation Process	Photographs
a	<p>Take off the 4 tires and mark 1~4 for each tire positioning.</p> <p>No.4 = Left Front Tire : No.1 = Right Front Tire            No.3 = Left Rear Tire : No.2 = Right Rear Tire</p> 	 
b	<p>Take off the tire and bleed the air, then, to change to the ORO TPMS valve, follow the steps:</p> <ol style="list-style-type: none"> <li>1. Snap in the valve from the internal edge side of the wheel.</li> <li>2. Adjust the valve's angle, and make sure the valve is vertical to the edge of the wheel.</li> <li>3. Put on the circle screw (washer) from the outside of the wheel.</li> </ol>	  

<p>b</p>	<p>4. Tighten the valve with the nylok screw from the outside of the wheel.</p> <p>5. Use the alan key provided to tighten.</p>	 
<p>c</p>	<p>Put the marked No. 1 tire sensor to the tire which is marked No. 1. As shown in the photo and follow the steps:</p> <ol style="list-style-type: none"> <li>1. Install the tire sensor to the valve.</li> <li>2. Use the nylok screw and tighten up with the tire sensor. (Please use the screwdriver)</li> <li>3. Adjust the tire sensor's angle (paste on the surface of the wheel), then tight up the with the nylok screw.</li> <li>4. Put on the valve's cap, and complete the installation.</li> </ol> <p><b>When there is a need to re-install the tire sensor, please use a new nylok screw in order to prevent the usage of the old ones.</b></p>	 
<p>d</p>	<p>Place the No. 2 tire sensor to the tire which is marked No.2, and set up the other 2 sensors in the same manner as shown in the step "c".</p>	
<p>e</p>	<p>Make sure there is no other liquid or dust present around the area of the tire sensor.</p>	

f	After installation, inflate the tire to the appropriate air pressure as suggested in each vehicle's user manual.	
g	Balance the tires with the tire balance machine	
h	Place the tires back to its corresponding position as shown in the photo on step "a".	







## Receiver Module Installation

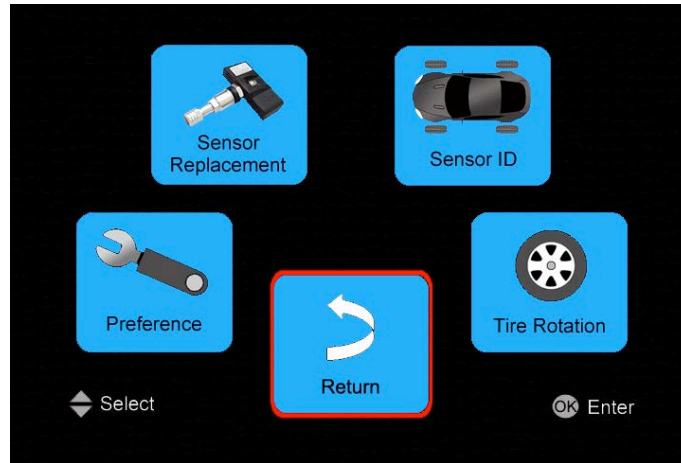


The correspond connection by brown or white trigger cable of DVD, are depend on the manner of DVD trigger mode, the none used cable is prohibit to connect 12V or ground but let it disconnected only.

**Caution:** suggest TPMS Receiver Module install under the driver or co-driver seat

## TPMS Function Setting

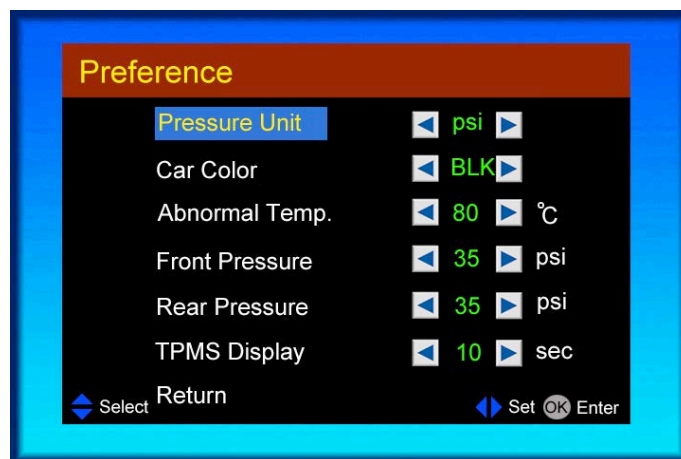
Upon the DVD player turns ON, press  to switch into TPMS mode (except rear camera mode), the tire information will display on the screen, press  again will return to DVD function mode. Press  under TPMS mode to get into TPMS setting mode. Press   to select desired, press  to get into individual setting page.



■ Value Setting

- Pressure Value – PSI, kPa and bar.
- Background vehicle color – Black, Blue, Yellow, Red and Silver.
- Tire Temperature Warning Value – The system will alarm when the temperature is higher than the set warning value.
- Front cold tire value – Front cold tire value setting, the system will alarm when the tire pressure is higher or lower than 25% of setting value.
- Rear cold tire value – Rear cold tire value setting, the system will alarm when the tire pressure is higher or lower than 25% of setting value.
- TPMS display timing – There are option of 0, 10, 30 sec. on the display for 4 tires information reading to choose when the TPMS is on.




**NOTE:** Cold tire pressure – Please set up the pressure value by following each car manual vehicle for standard tire pressure setting.




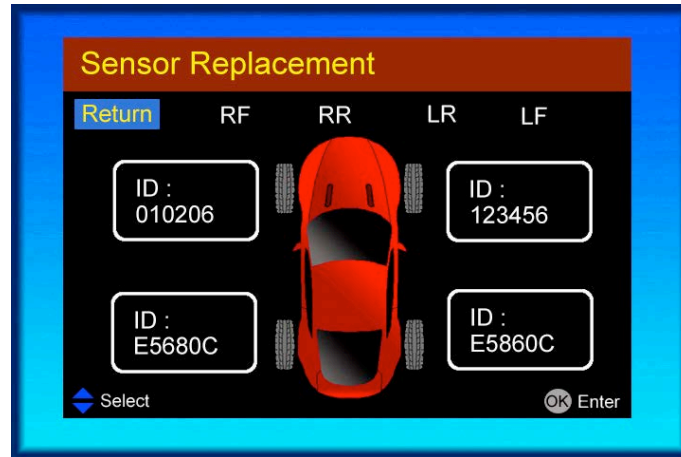
■ Changing Tire Sensor

The user can go into this mode to reset new ID for tire sensor when tire sensor is breakdown

or out of battery, the tire sensor shall be installed in the tire before executing this process.




Press   to select the position where need to change, and then press  to enter

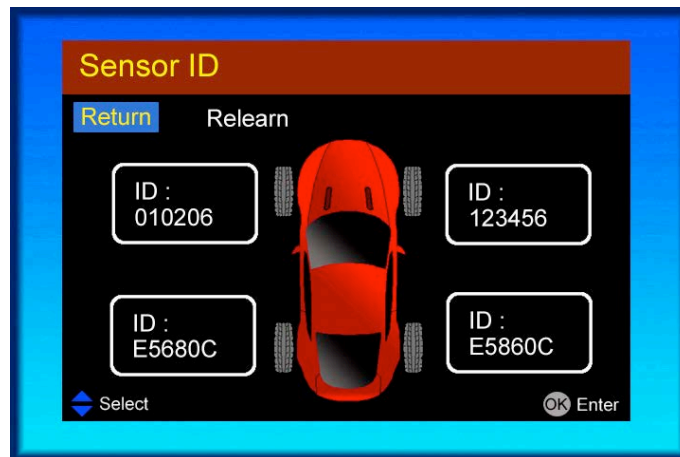
ID renew process and press  to confirm. By the meantime, the user shall deflate or inflate air rapidly (**0.3 bar, 30kPa or 4Psi in 15 seconds**) on the tires which tire sensors need to be changed. The process is successful when the new ID displayed.



#### ■ 4 Tires Sensor Position Resetting

When the user need to make tire sensor be repositioned or relearned, shall use this function in order to make 4 tires ID be saved again. After entered 4 tires sensor position resetting mode,




press   to choose relearn or return, press  to enter ID relearn process, the user shall deflate or inflate air rapidly as display shows from Right Front tire, Right Rear Tire, Left Rear tire, Left Front tire (**0.3 bar, 30kPa or 4Psi in 15 seconds**), upon the ID shows up in the display, means the tire has been relearned the new ID.





### ■ Tire Sensor ID reposition setting

When the vehicle is doing tire reposition, the tire sensor ID position shall be changed either,

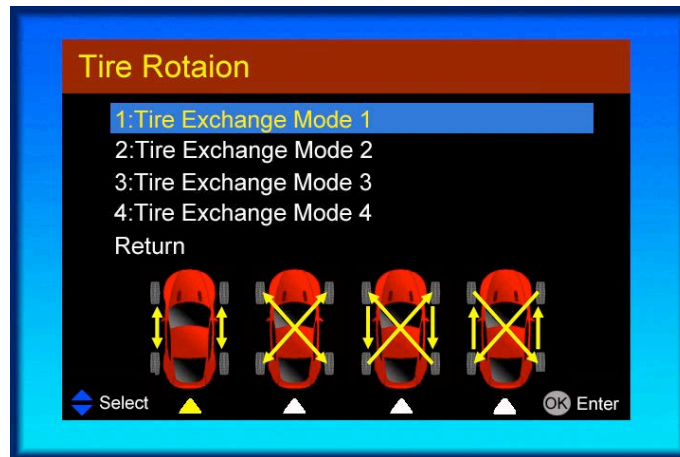
ORO TPMS has 4 modes for tire reposition by pressing   to select, and press  to enter ID reposition mode.

Model 1: Front and Rear Tire Parallel Exchange

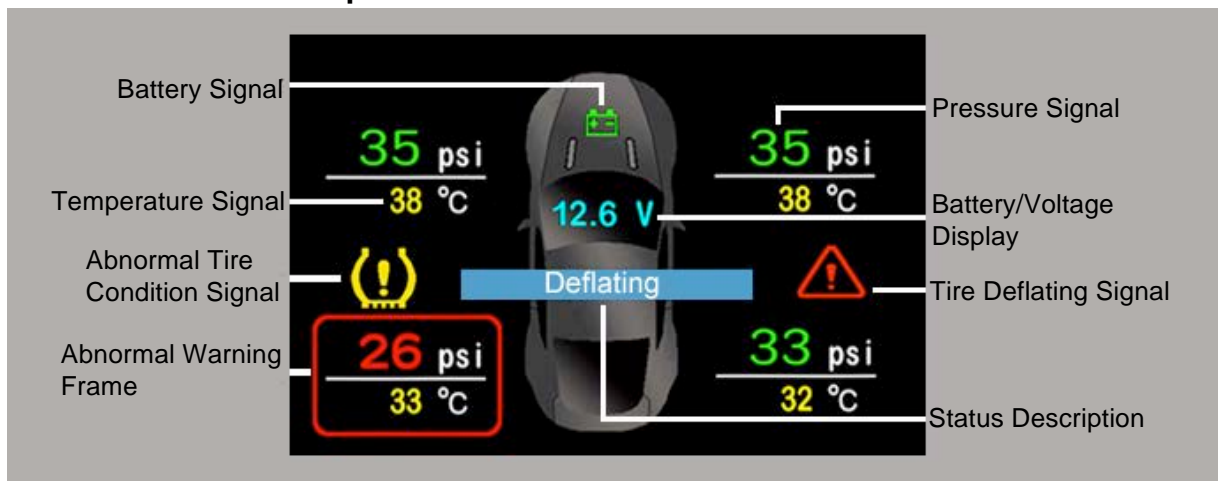
Model 2: Tire Diagonal Exchange

Model 3: Rear Tire Diagonal Exchange, Front Tire Parallel Exchange to Rear



Model 4: Front Tire Diagonal Exchange, Rear Tire Parallel Exchange to Front




### TPMS Interface Description

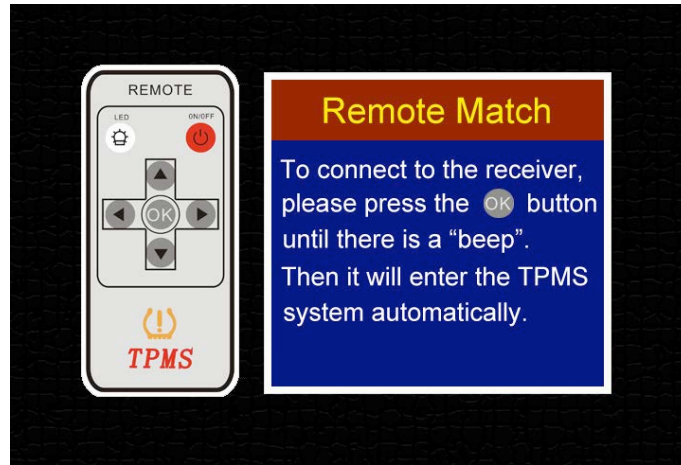


### Remote Control Repair Introduction

Press   simultaneously until "Beep" sound. The screen will display repair page,

press  proceed repair process.

**NOTE:** The remote control is already matched to the device, therefore no need for repair process.



### TPMS Alarming Function

Mode	Alarm Condition & Method	Receiver Module Display
a	<p><b>Alarming Condition:</b> When tire pressure &lt; 75% of standard tire pressure set value.</p> <p>The default set value for cold tire is 35psi, the system will alarm when tire pressure &lt; 26psi.</p> <p><b>Alarming Condition:</b> The tire will flash with red circle, the pressure mode will turn to red color with "beep" sound and flashing "Abnormal"</p>	
b	<p><b>Alarming Condition:</b> When tire pressure &lt; 125% of standard tire pressure set value.</p> <p>The default set value for cold tire is 35psi, the system will alarm when tire pressure &lt; 44psi.</p> <p><b>Alarming Condition:</b> The tire will flash with red circle, the pressure mode will turn to red color with "beep" sound and flashing "Abnormal"</p>	
c	<p><b>Alarming Condition:</b> When tire temperature is higher than set value.</p> <p><b>Alarming Condition:</b> The tire will flash with red circle, the pressure mode will turn to red color with "beep" sound and flashing "Tmp. Warn"</p>	

<p>d</p>	<p><b>Alarming Condition:</b> When tire pressure deflating rapidly.  <i>(When tire pressure varying over 2psi in 30 sec.)</i>  <b>Alarming Condition:</b> The tire will flash with red circle, the pressure mode will turn to red color with “beep” sound and flashing “Deflating”</p>	
<p>e</p>	<p><b>Alarming Condition:</b> When the receiver not able to receive signal from any one of tire sensors.  <b>Alarming Method:</b> The tire sensor is not displaying any information of the screen and flashing “No Signal”</p>	
<p>f</p>	<p><b>Alarming Condition:</b> When battery is lower than 11.5V  <b>Alarming Method:</b> The battery signal and number will turn to red color from Green color.</p>	

NOTE: The “beep” sound can be turn off by pressing  twice, meantime, keep the display on the alarming page.