TPMS

External Tire Pressure Monitoring System

Light Truck/LSUV/Sedan

APTOS DESIGN LAB

ADST002-R/ADST001-T

Description

TPMS is composed of one receiver and 4 transmitters. Receiver receives information from transmitters and update status to user. Transmitters integrated with sensors measure tire pressure, temperature, and so on in real-time. Transmitters also transfer the information through the 434MHz ISM band to the receiver

Feature

- ► 433.92 MHz ISM band wireless communication.
- ► Real-Time pressure and temperature measurement.
- ► Real-Time update in the Receiver.
- ► Abnormal alarm to users.
- ► Voice reminder as well as LED indicators.
- ► Fully integrated car charger power I/F

Safety Precautions

Please follow the safety precautions carefully before you use the product. Make sure that you use the product correctly according to the procedures described in the guide.

1. Never place the product close to equipment generating strong electromagnetic fields.
   * Exposure to strong magnetic fields may cause malfunctions.
2. Never plug or unplug the product if your hands are wet, otherwise it will may cause electrical shock.
3. Do not drop the product to the ground to avoid malfunction.
4. Do not attempt to disassemble or alter any part of the product that is not described in this guide.
5. Do not put heavy material on the product.
6. Do not use the product in a wet location.
   * In the event that water or other liquids enter the interior, immediately unplug the product from the computer.
   * When continuing usage of the product under above situation may cause fire or electric shock.
7. Do not place the product near a heat source or expose them to direct flame or heat.
8. Do not place the product in damp or dusty places.

Specification

Transmitter

Operating Temperature	-20°C ~ +85°C
Storage Temperture	-20°C ~ +85°C
Humidity	95%
Carrier Frequency	433.92 MHz
Pressure Range	100 ~ 450 Kpa
Temperature Range	-20°C ~ +125°C
Temperature Accuracy	3°C
Sampling Rate	4 s
Data Transfer Rate	30 s
Power	3.0 V Lithium
Power Comsuption	Max 13.5mA
Battery Life	1.5 years /130mAh
Weight	14 g
Dimension	22.5x22.5x25 (mm)

Receiver

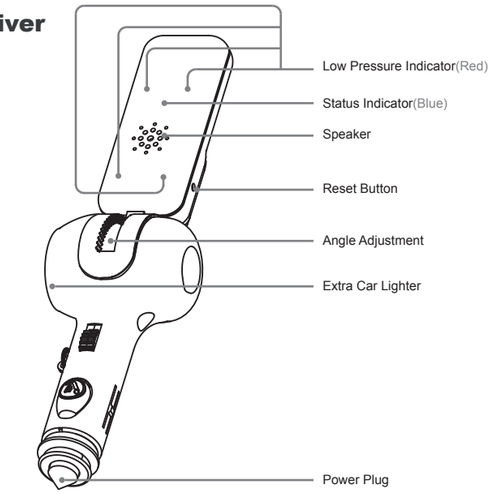
LED Pressure Indicator	Red - Low Pressure Indicator
LED Status Indicator	Blue - RX Indicator
Speech I/F	Preload Coices for Pressure Information
Centric Frequency	433.92 MHz
Storage Temperature	-20°C ~ +70°C
Operating Temperature	-20°C ~ +65°C
Power	12V DC
Dimension	74x30x22 (mm)

Package List

1. Receiver x 1
2. Transmitter x 4
3. User manual x 1

Product Overview

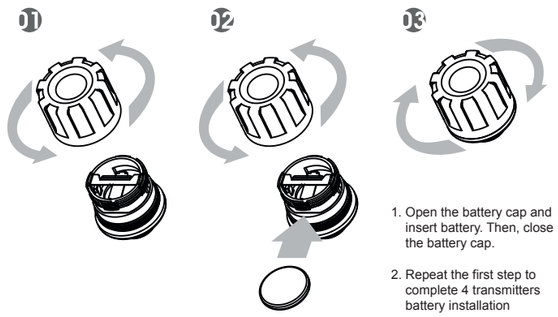
Receiver



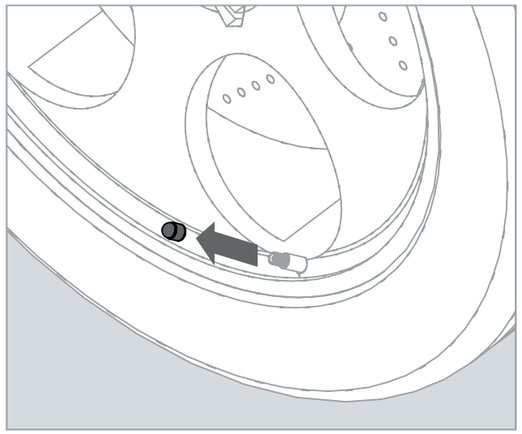
Transmitter

Getting Started

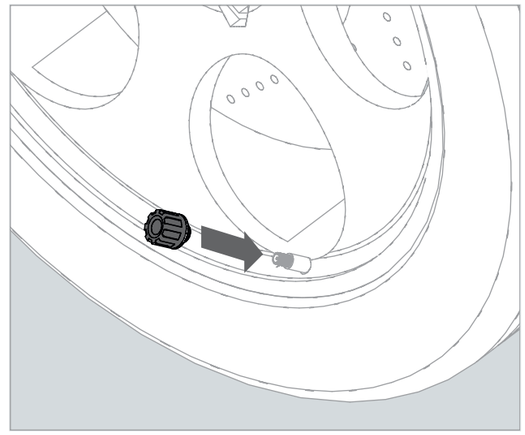
Transmitter Setup



1. Open the battery cap and insert battery. Then, close the battery cap.
2. Repeat the first step to complete 4 transmitters battery installation

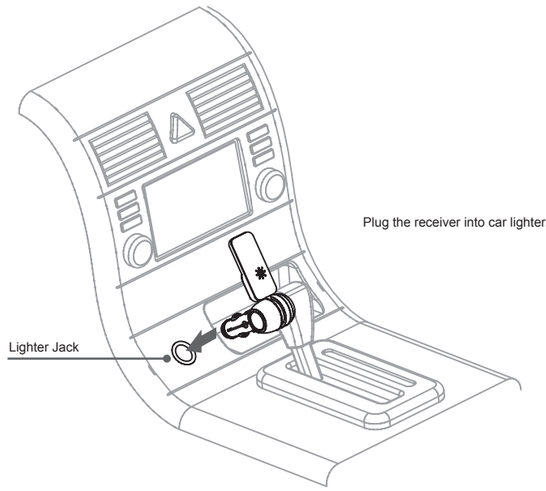


Remove valve cap of tire

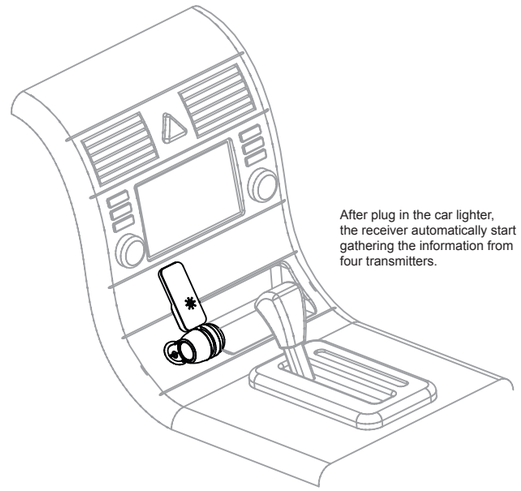


Install transmitters by
1: Front-Left tire.
2: Front-Right tire.
3: Rear-Left tire.
4: Rear-Right tire.

Receiver



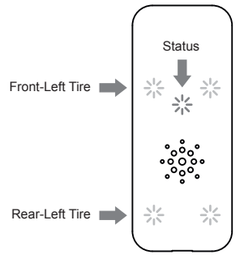
Plug the receiver into car lighter.



After plug in the car lighter, the receiver automatically start gathering the information from four transmitters.

First Time Usage

1. Please follow the step of transmitter setup to install 4 transmitter batteries. While installation is completed, please keep transmitters close to the receiver.
2. Please follow the step of receiver setup to power on Receiver.
3. After powering on the receiver and 4 transmitters, the receiver will automatically search 4 transmitters. (Each transmitter is given a unique ID.)
4. If transmitter is searched, the corresponding LEDs will be turned on.
5. While 4 transmitters are recognized, the receiver will turn on all LEDs, including 4 RED LED for each transmitter alarm as well as 1 BLUE LED for receiving indication.



Indication on Receiver	Description
FL	Front-Left
FR	Front-Right
RL	Rear-Left
RR	Rear-Right

6. Install transmitters to each tire by following the step of transmitter setup. Then, remove the receiver from car lighter hole and re-plug in the receiver to the car lighter hole to reset the receiver.

TPMS Usage

Transmitter

1. Please follow the step of thansmitter setup to install the four tansmitter on the tire.
2. No need to remove the transmitters if there is no abrupt situation.

Power On Receiver

1. Power on the receiver by the step of transmitter setup. Then 4 RED LED will be blinking for a while.
2. While the 4 RED LED is turned off, the receiver starts to receive the real-time information from transmitters.
3. If there is any received information from transmitters, then the BLUE LED of the receiver is blinking.

Normal Situation

- Light Truck/LSUV - The normal situation means the tire pressure is greater than 54 PSI.
- Sedan - The normal situation means the tire pressure is greater than 30 PSI.

Abnormal Situation

- Light Truck/LSUV - The abnormal situation means the tire pressure is less than 48 PSI. And, RED LED on the receiver will be turned on. Meanwhile, the receiver will speak out the tire position as well as its pressure.
- Sedan - The abnormal situation means the tire pressure is less than 26 PSI. And, RED LED on the receiver will be turned on. Meanwhile, the receiver will speak out the tire position as well as its pressure.
- Light Truck/LSUV - If tire pressure is between 54 ~ 48 PSI, RED LED is blinking.
- Sedan - If tire pressure is between 30 – 26 PSI, RED LED is blinking.

Note: Please take off the battery while tansmitter is removed from tire. Or, the tansmitter would keep consuming the power from battery.

Warranty

If the product is in malfunction or damaged due to quality problem, please send it for repair. Free maintenance service is offered with 1 months from the date of purchasing. However, this warranty does not cover malfunction or damage resulted from human factor, such as dismantle unauthorized or improper use; in such cases, material cost and service fee will be charged. Warranty is to be proved with the Warranty Card included in the Packing Case. When purchasing the product, please check and ensure a Warranty Card is in the case and ask the dealer to fix shop stamp and insert date and model number on it to validate. When the product purchased is exceeded Free Warranty Period, we will charge fee for the maintenance and service.

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Model :

Serial Number :

Date of Purchase :

Stamp by shop

Not valid without stamp