

To ensure correct operation and service please read these instructions before installing and operating the TPMS

P451 TPMS Manual

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Tire Pressure Monitoring Systems, TPMS

Tire Pressure Monitoring Systems (TPMS) improves safety while driving. Once installed in your vehicle, the system will automatically monitor your tires in real-time for pressure and temperature. When any tire's pressure and/or temperature appear abnormal, the system will, in real-time, transmit signals to active an alarm and show a digital figure to warn the driver of a problem. The system aids safety, can extend the tire life and help reduce fuel consumption.

NOTICE

FCC Notice

This 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.

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 factoring 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

Caution Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating to conjunction with any other antenna or transmitter.

System Scope of Use and Warnings

Tire Pressure Monitoring System, TPMS

This system is a sensing device designed to measure and display tire operation and / or activate an alert to the driver when pressure and temperature irregularities are detected. It is the responsibility of the driver to react promptly and with discretion to alerts. Abnormal tire inflation pressure should be corrected at the earliest opportunity.

Caution The system is wireless RF product; therefore, it may not receive signal due to interference environment or incorrect operating or installation. When the system continually cannot receive signal from one of the tire sensor more than 20 minutes since the system be switched on, the system will show " E2 ". In this case, it may cause by a RF interference environment and driver needs to drive the vehicle to other place. If the display still cannot receive any correct signal from tire sensor, then, driver needs to find a nearby qualified tire maintain service for checking and maintain. It may cause by a tire sensor damaged or battery power consumption is low (the battery consumption will be lower than under normal using condition due to sensors need to send warning signal continually to driver) . If the system continually cannot receive signal from any sensors more than 20 minutes, the system might damaged and will show "E1". Driver

needs to drive to other place (there might be a interference nearby) or send the system to agent for repair

*** System Installation and Usage**

Use of the TPMS requires that qualified personnel according to the instructions here 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 74 Psi (Gauge), below instruction is Gauge value mentioned.

*** Reacting to Alerts**

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

The low-pressure alert indicates that the air pressure has dropped to a selected minimum and a high-temperature alert indicates that the temperature of the tire content has surpassed the threshold value set. When the battery voltage icon flash, it means the battery voltage of vehicle is below battery voltage default (11v).


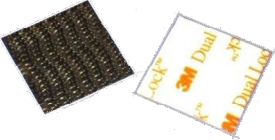





*** Use of Chemicals**

Temporary resealing or re-inflation products containing internal sealants or propellants in any tire assembly may adversely affect the operation of the sensor/transmitter.

SPECIFICATIONS OF TPMS

| RECEIVER SPECIFICATIONS | |
|---------------------------------------|--|
| Operating Voltage | 5V DC |
| Operating Current | < 150mA |
| Storage Temperature | -30°C to 75°C |
| Operating Temperature | -25°C to 75°C |
| SENSOR AND TRANSMITTER SPECIFICATIONS | |
| Storage Temperature | -40°C to 125°C |
| Operating Temperature | -40°C to 125°C |
| Operating Humidity | MAX. 95% |
| Operating Frequency | 433.92MHz ± 50kHz |
| Pressure Monitoring Range | 0~74 psi |
| Pressure Reading Accuracy | At Normal condition ± 1psi at normal pressure range |
| Temperature Reading Accuracy | ± 4°C in normal environmental condition |
| Transmission Power | Max. 73.5 dBµV/m |
| Battery | 3V |
| Weight | 28g ± 3g |

ACCESSORIES

| | Picture | Description | Q'ty |
|---|---|--|------|
| A |  | Wireless Receiver and Display Unit | 1 |
| B |  | Velcro for Display | 3 |
| C |  | 3M Double-Coated Adhesive | 1 |
| D |  | Power Cord (with 90 degree Micro-USB; 300cm Length) | 1 |
| E |  | Power Connector for cigarette Lighter (USB with 2 outputs) | 1 |
| F |  | Windshield Holder (with Nut) | 1 |
| G |  | Base (for Display Unit) | 1 |
| H |  | Base (Adhesive to Windshield). | 1 |

INSTALLATION

There are two parts of system installation

1. Setting up the display unit in the vehicle
2. Installing the transmitter unit sensor in each tire.

We strongly suggest installing the display unit first, and then install the tire transmitters.

Note Warranty including “Wireless Display Unit and Wireless Transmitter Sensor and Power Connection cable”, not including other accessories.

When remove transmitter sensors to different tires and replace new transmitter sensors, suggest change all of the valve stems and screws.

DISPLAY UNIT INSTALLATION

1. One Velcro (B) adhere to backside of Wireless Receiver and Display Unit (A), another Velcro (B) adhere to Base (G).
2. Plug Power Cord (D) into Micro USB input of Wireless Receiver and Display Unit (A)
3. Connect Power Cord (D) to any input of Power Connector (E), another end plugs into Cigarette Lighter of the vehicle.
4. Select preferable position on windshield to fix Display (A). As the following you may see Base (G) and Display (A) are attached by two Velcro (B).
5. Remove protection film on the Display (A).

Option# A : Use Windshield Holder

Step 1 : Take off white film of Velcro (B) and adhere to Base (G).

Step 2 : Unscrew Nut from Windshield Holder (F) and fix it on Base (G).

Step 3 : Attach the head of the Base (G) into the Nut (F), and screw tightly.



Option# B : Adhesive To Windshield

Step 1 : Take off white film of Velcro (B) and adhere to Base (G).

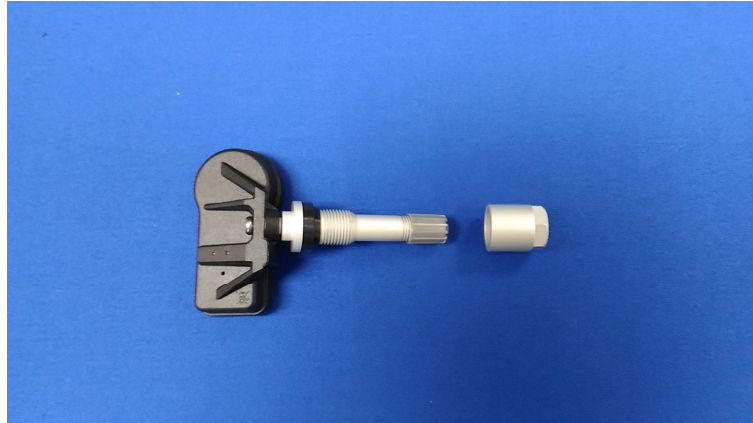
Step 2 : Unscrew Nut from Windshield Holder (F) and fix it on Base (G).







Step 3 : Attach the head of the Base (G) into the Nut (F), and screw tightly.




Step 4 : Use any side of 3M double-coated Adhesive (C) to Windshield Holder (F), another side is adhesive to windshield.



WIRELESS TRANSMITTER SENSOR INSTALLATION



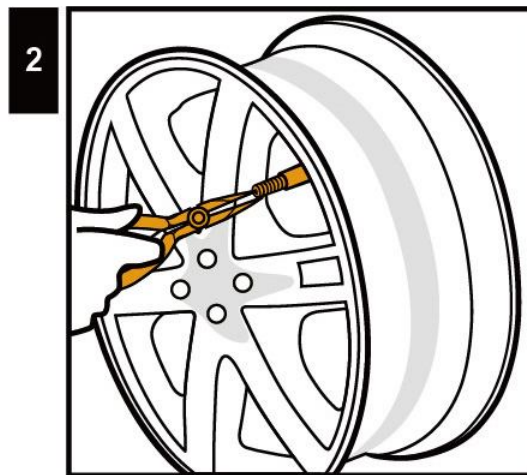
| STEP | OPERATION PROCESS | PHOTOGRAPH |
|------|---|---|
| 1 | Use a jack to raise the vehicle and place jack stands underneath the vehicle for safety. Refer to vehicle owner's manual for full service advice. Seek the assistance of a qualified motor mechanic if required. |  |
| 2 | Take off the tires and bleed the air. Then take off the air valve of the tire from the wheel. (NOTE: You must change the valve to TPMS valve) . This part of the process will normally require the service of a tire fitting service or mechanic. |  |
| 3 | Recognize the number on each sensor (D) with position of tire on the vehicle. (VERY IMPORTANT) <ul style="list-style-type: none"> a. RF - 1 = Right Front, No. 1 b. RR - 2 = Right Rear, No. 2 c. LR - 3 = Left Rear, No. 3 d. LF - 4 = Left Front, No. 4 |  |
| 4 | Set up the new TPMS special valve (E) in the wheel. Use wrench to fix the valve, and then tighten nut to 40~45kgf-cm (4~4.5Nm). |  |
| 5 | Clean inside the tire to prevent the tire from damaging the transmitter sensor. |  |
| 6 | Inflate the tires. Balance the tire <ul style="list-style-type: none"> a. Balance tires using a balance machine b. A lead tire weight may need to be added for balancing. c. Balance until the tire balance shows balance as "OK" |  |

| | | |
|---|--|--|
| | <p>The steps above will require the assistance of a tire fitting service or a mechanic. It is important that the wheels are balanced after the fitting of the TPMS sensors in order to ensure the safe operation of the tire when refitted to the vehicle.</p> |  |
| 7 | <p>Set up the other three tires in the same manner.</p> |  |
| 8 | <p>Turn the ignition key of the vehicle until the power is activated on the cigar lighter, this may be first or second position depending on the car manufacturer. The in-car display will be activated.</p> <p>The function button of the display unit can be switched to pressure or temperature depending on the customer's need.</p> |  |



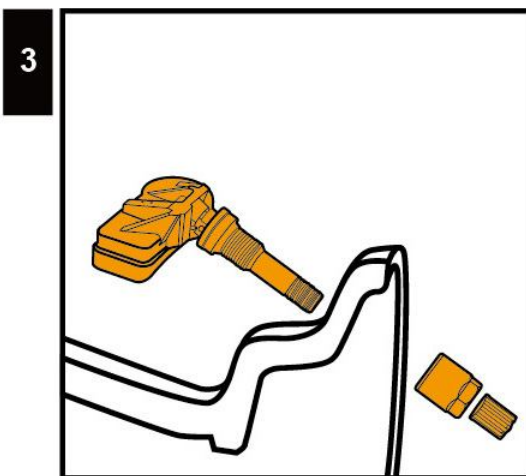
Jack up the car and de-mount the tire.

使用千斤頂將車體提高



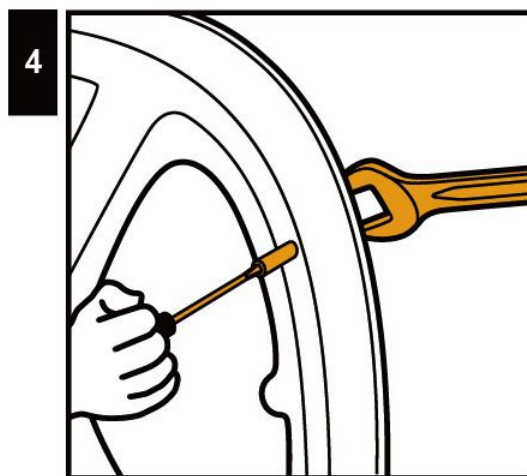
Remove original valve.

取出原氣嘴,小心清理殘留物



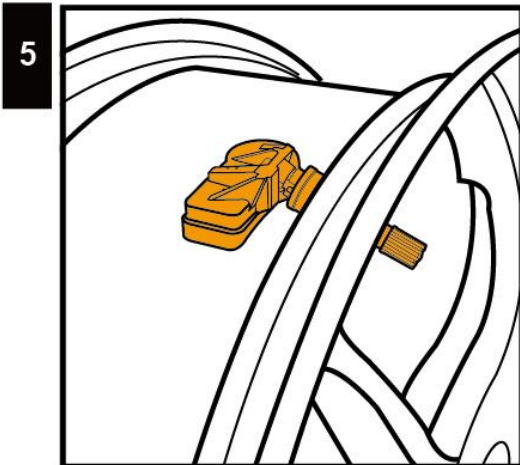
Sensor Assemble

無線胎壓傳感器安裝



Tighten the valve by wrench and screw it (Torque value must be $\geq 4\text{Nm}$)

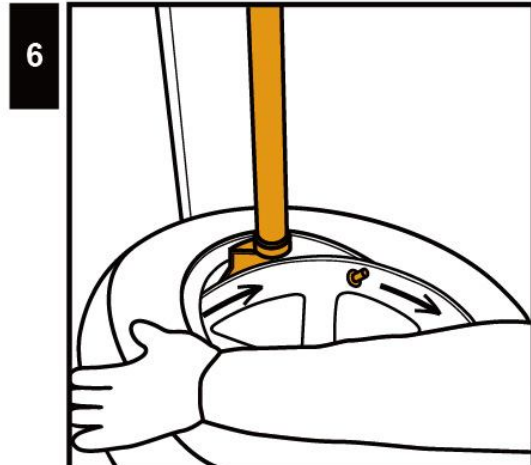
使用扳手固定氣嘴,再鎖緊螺帽
(鎖附扭力要 $\geq 4\text{Nm}$)



5

Tighten up screw

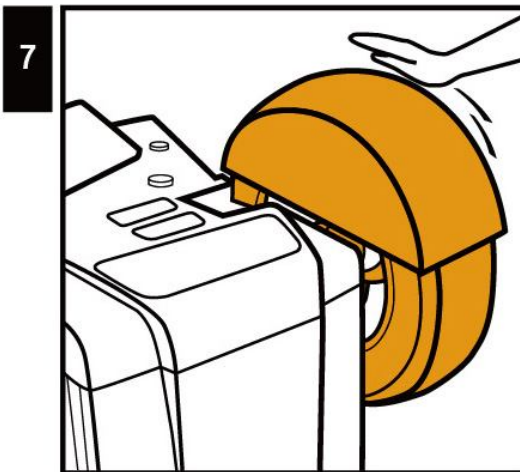
先調整無線傳感器的角度並盡量貼附於鋁鋼圈上,再鎖緊固定



6

Install the tire from left side of the valve clockwise direction, avoid tire bead hits valve and sensor.

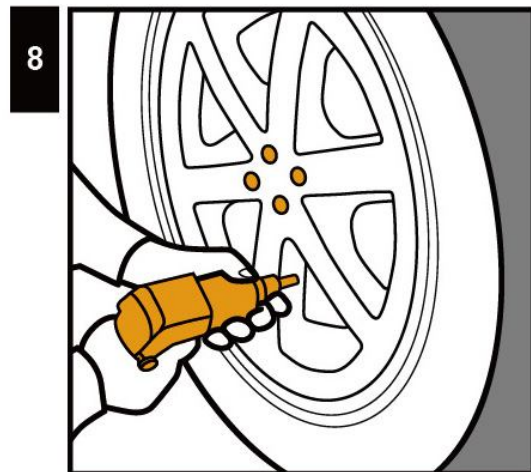
安裝輪胎,從氣嘴的左側為起始點,務必避開傳感器及氣嘴,以避免破壞傳感器



7

Balance the tire.

輪胎平衡矯正,可能需要加放鉛塊,直到輪胎平衡機顯示"平衡OK"



8

Mount the tire to it's position.

依照輪胎位置將已裝好無線傳感器之輪胎分別裝回原位

SYSTEM OPERATION

After the system is installed, it will automatically monitor the tire pressure and temperature. Once the ignition is turned on, and the vehicle is in motion, the display will show the real-time tire pressure and temperature individually.

SYSTEM ALARM

The alarm system will start, if tire pressure is too low, and if tire temperature is too high, the alarm system will start too, and tire pressure will show on display. If high tire temperature and low tire pressure situation happen at the same time, the system will show low tire pressure at first and then show tire temperature, both of tire pressure and temperature will show on the screen for six seconds by turns.

The alarm will keep making sound till turning off alarm system or solving abnormal situation, and below the manual will explain operation process.






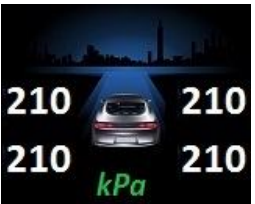


SETUP METHOD





The driver can follow the steps to adjust the system of pre-loaded values

※ Notice: The system has been pre-set with alert figures. If the driver wants to change the figure, then follow the professional tire technician's instruction.


Choosing preferred Pressure Units and Temperature Units

| Step | Operation process | Photograph |
|------|---|--|
| 1 | <p>By pressing the function key, it will switch among displaying the pressure unit, displaying the temperature unit, and displaying both pressure unit and temperature unit by turns. The operator can choose which one to set up first.</p> <p>The system will remain the screen when it shows it more than 10 seconds; the screen will remain the same after system starts over.</p> |    |
| 2 | <p>If the pressure unit is chosen. Press the function key for 3 seconds, it will switch to kPa, psi, bar in turn. Once the preferred unit is chosen release the function key.</p> |    |
| 3 | <p>If the temperature unit is chosen. Press the function key for 3 seconds, and it will switch to °C and °F in turn. Once the preferred unit is chosen release the function key.</p> |   |







Standard Front/Rear Tire Pressure Setting

| Step | Operation process | Photograph |
|------|--|---|
| 1 | Pressing the set key for over 3 seconds can change to the front tire standard pressure set up mode. | 【Set】 Key |
| 2 | The wireless receiver and display unit will show the preset front tire standard pressure default (34 psi / 230 kPa / 2.3 bar). |  |
| 3 | By pressing the function key once, the psi value will add 1 unit; and the unit value will return to 20 psi when it has reached 48 psi. (the kPa value will add 10 units; and the unit value will return to 140 kPa when it has reached 330kPa / the bar value will add 0.1 units; and the unit value will return to 1.4bar when it has reached 3.3 bar) The system will use this setting as the standard value for low tire pressure monitoring, which means when the tire has deflated to a pressure value lower than this setting, the system will automatically start to warn the driver. | 【Function】 Key |
| 4 | <p>As for the preset standard value 34psi / 230kpa for tire pressure monitoring. High tire pressure monitoring which means when tire pressure has reached 51psi or 1.5 times of the original standard value (the initial preset value is 34psi or 230kPa or 3.3 bar).</p> <p>For low tire pressure monitoring which means when tire pressure has reached 27psi or 0.8 times of the original standard value (the initial present value is 34psi or 230kPa or 3.3 bar).</p> | |
| 5 | Press the set key to complete the front tire pressure warning value setup mode. The system will automatically enter the rear tire pressure set up mode. | 【Set】 Key |
| 6 | Set up rear tire standard pressure value by using the same steps 1~5 from front tire pressure warning value set up mode. ° |  |

Tire Over Temperature Warning

| Step | Operating process | Screen |
|------|--|---|
| 1 | After the setting operation of standard tire pressure, the systems will automatically entry the setting mode of high tire temperature. | |
| 2 | The display unit will show tire over temperature warning setup value (the factory default value is 80°C / 176°F) for the tires. |  |
| 3 | Press the function key to change the high temperature figure. The high temperature figure set up range is from 60°C to 100°C (the °F value will add 1 unit; and the unit value will return to 140 °F when it has reached 212 °F), the driver can continually push the function key to adjust the appropriate high temperature figure. When the tire temperature exceeds this setting, the system will generate the warning signals. | <p>【Function】 Key</p> |
| 4 | Press the set key to complete the high temperature setting operation. | <p>【Set】 Key</p> |

Alarm Instruction

| Type | Warning Description | Screen |
|------|---|---|
| 1 | The tire pressure of RF Tire (22 psi) is below tire pressure default (27 psi), and it will active an alarm with “Beep sound” (along with Orange light on) to warn the driver, press set key to turn off the alarm (buy Orange light still on till the pressure back to normal condition. |  |
| 2 | The tire pressure of LF Tire (52 psi) is above tire pressure default (51 psi), and it will active an alarm with “Beep sound” (along with Orange light on) to warn the driver, press set key to turn off the alarm (buy Orange light still on till the pressure back to normal condition. |  |
| 3 | The tire temperature of LR Tire (82 °C) is above tire temperature default (80 °C), and it will active an alarm with “Beep sound” (along with Orange light on) to warn the driver, press set key to turn off the alarm (buy Orange light still on till the pressure back to normal condition. |  |
| 4 | The battery voltage of Sensor is under battery voltage default, which the battery check icon will illuminate. |  |
| 5 | When it lasts 20 minutes above that wireless receiver couldn't receive one of the signal from wireless transmitter sensor, the display will show E2; E1 indicates all wireless transmitter sensor not receivable. |  |
| | |  |

Note When display unit shows E1 or E2, place any wireless devices (cell phone, etc) further away from display unit or locate a qualified tire service center to correct the issue.

RESET FOR TIRE CHANGES AND ROTATION

The rotation is necessary to prolong the life of your tires. The system can reset the tire position to ensure the transmitter sensor can indicate the right position of your tires on display unit. TPMS provides three modes of tire rotation methods and one mode for random repositioning and single sensor replacement.

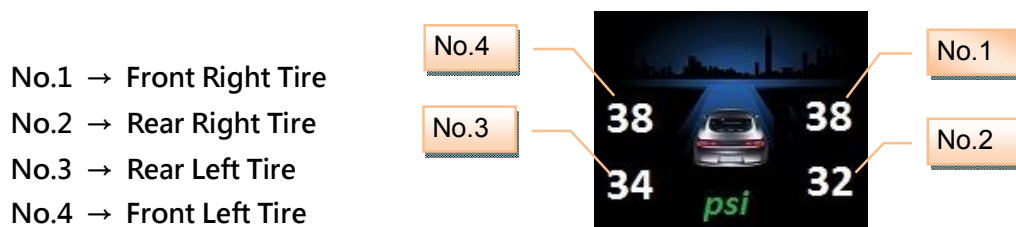
The product has adopted **Orange Tire Orientation (OTO)**.

The system will automatically reset tire position on driving for a while after tire or sensor change, and it can efficiently help end user save time for resetting.

There are two modes if drivers would like to operate it manually.

Mode 1 : Four Sensors Replaced







Mode 2 : Single Sensor Replaced








Warning

- 1. Do not turn off the vehicles power during this process. Doing so will immediately interrupt the repositioning setup process. The ignition can either be in the on or start position.**
- 2. After repositioning, check the display is detecting all tire pressures correctly. If the system cannot work normally, please reset it and follow the instructions again (At this time, enter Mode 2 to use single sensor replaced).**

Mode 1 : Four Sensors Replaced

| Step | Operation process | Photograph |
|------|---|--|
| 1 | The tire shop will check the tire for abrasion and rotate tires into the appropriate position. |  |
| 2 | Press both the set key and function key simultaneously for 5 seconds. The display will flash red, and a “beep” sound will be heard. You can release the buttons the system will have entered into mode 1 | <p data-bbox="1114 528 1362 568">【Function】 Key</p> <p data-bbox="1114 584 1278 624">【Set】 Key</p> |
| 3 | <p data-bbox="357 887 1078 972">3-1 It will take about two seconds after entering mode 1, and the display will show “1”.</p> <p data-bbox="357 1039 1078 1245">3-2 When Tire No.1 needs to be reconfigured, deflate Tire No.1 once below 27 psi (tire low pressure default), and wait for the receiver to receive the signal. When tire No. 1 receives the signal, you will hear alarm “beep”. Then, start inflate the tire No.1, it will keep on “beep” till Tire No. 1 is completely inflated to normal pressure.</p> <p data-bbox="357 1346 1078 1431">3-3 After finishing all the steps above, the numbers will show “1” and turn to “2” automatically.</p> |     |
| 4 | Repeat the 3-2 step above for tire No.2, No.3 and No.4 System will be back to monitoring condition automatically, and receiver start to receive signals of tire pressure & tire temperature. |  |

Mode 2 : Single Sensor Replaced

| Step | Operating Process | Photograph |
|------|--|--|
| 1 | Take off the broken sensor and replace it with a new sensor. |  |
| 2 | Press both the set key and function key simultaneously for 5 seconds. The display will flash red, and a “beep” sound will be heard. You can release the buttons, and the system will have entered into mode 1. Continue to repress the function key for four times, and then the system will switch into mode 2. | <p>【Function】 Key 【Set】 Key</p> |
| 3 | <p>3-1 It will take about 2 seconds after entering mode 2, the display will show “2”</p> <p>3-2 Press set key to choose tire which new sensor installed, LED will show Tire No.1 / 2 / 3 / 4.</p> <p>3-3 When Tire No.1 (RF Tire) needs to be replaced, deflate tire No.1 below 27 psi (tire low pressure default value) and wait for the receiver to receive the signal. When Tire No. 1 receives the signal, you will hear “beep”. Then, start inflate tire No.1, it will keep on “beep” till Tire No. 1 is completely inflated to normal pressure.</p> |    |
| 4 | After completing all the steps above, System will be back to monitoring condition automatically. |  |

APPENDIX 1

| | |
|--------------------------------|--|
| kPa | Pressure reading in Kilo Pascal |
| psi | Pressure reading in pound per square inch |
| bar | Pressure reading in bar |
| °C | Temperature reading in degrees Celsius |
| °F | Temperature reading in degrees Fahrenheit |
| Inflating Pressure environment | Recommended inflation pressure of a tire at ambient temperature of 25°C / 77 °F by vehicle manufacturers. |
| Low Pressure Alert | Visual and audible warning, this is activated when the tire's pressure goes below the preset level. Initial low pressure alert is 27 psi |
| High Pressure Alert | Visual and audible warning, this is activated when the tire's pressure goes higher than the preset level. Initial High pressure alert is 51 psi |
| High Temperature Alert | Visual and audible warning, this is activated when the tire's temperature goes higher than the preset level. Initial High temperature alert is 80°C. |
| Display / Receiver Module | The electronic module mounted inside the vehicle that alerts the driver of any tire irregularities. |
| Sensor / Transmitter Module | The electronic module mounted on the wheels that measure the air pressure and temperature of the tire. |

APPENDIX 2

| kPa , psi, bar Conversion Table | | | | | | | | |
|--|-----|-----|-----|-----|-----|-----|-----|-----|
| kPa | psi | bar | kPa | psi | bar | kPa | psi | bar |
| 10 | 1 | 0.1 | 210 | 30 | 2.1 | 410 | 59 | 4.1 |
| 20 | 3 | 0.2 | 220 | 32 | 2.2 | 420 | 61 | 4.2 |
| 30 | 4 | 0.3 | 230 | 33 | 2.3 | 430 | 62 | 4.3 |
| 40 | 6 | 0.4 | 240 | 35 | 2.4 | 440 | 64 | 4.4 |
| 50 | 7 | 0.5 | 250 | 36 | 2.5 | 450 | 65 | 4.5 |
| 60 | 9 | 0.6 | 260 | 38 | 2.6 | 460 | 67 | 4.6 |
| 70 | 10 | 0.7 | 270 | 39 | 2.7 | 470 | 68 | 4.7 |
| 80 | 12 | 0.8 | 280 | 41 | 2.8 | 480 | 70 | 4.8 |
| 90 | 13 | 0.9 | 290 | 42 | 2.9 | 490 | 71 | 4.9 |
| 100 | 15 | 1 | 300 | 44 | 3.0 | 500 | 73 | 5 |
| 110 | 16 | 1.1 | 310 | 45 | 3.1 | 510 | 74 | 5.1 |
| 120 | 17 | 1.2 | 320 | 46 | 3.2 | 520 | 75 | 5.2 |
| 130 | 19 | 1.3 | 330 | 48 | 3.3 | 530 | 77 | 5.3 |
| 140 | 20 | 1.4 | 340 | 49 | 3.4 | 540 | 78 | 5.4 |
| 150 | 22 | 1.5 | 350 | 51 | 3.5 | 550 | 80 | 5.5 |
| 160 | 23 | 1.6 | 360 | 52 | 3.6 | 560 | 81 | 5.6 |
| 170 | 25 | 1.7 | 370 | 54 | 3.7 | 570 | 83 | 5.7 |
| 180 | 26 | 1.8 | 380 | 55 | 3.8 | 580 | 84 | 5.8 |
| 190 | 28 | 1.9 | 390 | 57 | 3.9 | 590 | 86 | 5.9 |
| 200 | 29 | 2 | 400 | 58 | 4.0 | 600 | 87 | 6 |

| °C To °F and °F To °C Conversion Table | | | | | |
|---|-----|----|-----|-----|-----|
| °C | °F | °C | °F | °C | °F |
| -40 | -40 | 20 | 68 | 80 | 176 |
| -30 | -22 | 30 | 86 | 90 | 194 |
| -20 | -4 | 40 | 104 | 100 | 212 |
| -10 | 14 | 50 | 122 | 110 | 230 |
| 0 | 32 | 60 | 140 | 120 | 248 |
| 10 | 50 | 70 | 158 | 125 | 257 |

WARRANTY POLICY

We warrant our products for one year (365 days) from the date of original purchase to be free from defects in materials and workmanship. If, during this period, the product fails under normal usage, because of a manufacturing defect, we will replace or repair the item. To obtain repair or replacement under the terms of this warranty, please return the product to the place of purchase. Proof of purchase and date of purchase are required to validate the warranty claim.

All implied warranties, including the warranty of merchantability, are limited to this same ninety-day period from date of original purchase. We are not liable for any direct or consequential loss or property damage arising from any use of this product. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. This does not affect your statutory rights.

Note: Warranty including “Wireless Display Unit and Wireless Transmitter Sensor and Power Connection cable”, not including other accessories.

When remove transmitter sensors to different tires and replace new transmitter sensors, suggest changing all the valve steams and screws.

Warning

- 1. Only use TPMS sensor replacement parts (these can be purchased from Agents). TPMS cannot use other brands of TPMS sensors for replacement parts. Using other brands will be cause failure and will void the warranty.**
- 2. The power connection is NOT COMPATABLE with USB interface; please do not plug in any USB devices.**

Any questions pertaining to warranty information or other questions not answered in the preceding pages can be answered by the place of purchase or by Orange Electronic service e-mail address:

service@orange-electronic.com

For updated TPMS information and Orange products visit the Orange Electronic website:
www.orange-electronic.com

Thank you for your purchase and enjoy your TPMS!

TROUBLESHOOTING GUIDE

1. The receiver shows no sign or any information after its power is turned on.

| |
|---|
| 1.The power cord connector is not fully contacted with the receiver |
| Solution: Remove the power cord and plug it into the outlet again until it is contacted completely. |
| 2.The power cord failed |
| Solution : Ask your distributor to have your power cord replaced and send the defected one back to manufacturer for repair. |
| 3. The battery is run out of power. |
| Solution : If the battery voltage is always lower than 9V every time you start the engine, it is recommended that the car should be brought to the service center for inspection. |
| 4. The digits shown on the display panel become incomplete, or the light indicators become abnormal. |
| Solution : Send the defected receiver display back to agent for repair and reconfigure its ID using the Tire Switching Mode (Mode IV). |
| 5. The fuse is blown in display |
| Solution : Send the defected receiver display back to agent for repair and reconfigure its ID using the Tire Switching Mode (Mode IV). |

2. The buttons have no response.

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| 1. The inner circuits of the receiver failed |
| Solution : Ask your distributor to have your receiver replaced, reconfigure its ID using the Tire Switching Mode (Mode I), and send the defected receiver back to manufacturer for repair. |

3. The receiver cannot receive signal from one or some certain tires (but not all of them) after its power is turned on the numeric values representing the locations of those tires displayed on the screen become "E2".

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| 1. There is interference from other electronic device in the vehicle. |
| Solution : Remove other electronic device in the vehicle to determine if TPMS is interfered by those removed devices. |
| 2. The IDs of those tires do not set up correctly |
| Solution : Ask your installation supplier to reconfigure the IDs of those tires by using the Single Sensor Replaced (Mode II). |
| 3. The transmitter of those tires failed. |
| Solution : Ask your distributor to have those transmitters replaced, reconfigure the IDs of those tires by using the Single Sensor Replaced (Mode II), and then send the defected transmitter back to manufacturer for repair. |

4. The receiver cannot receive signal from any of the four tires after its power is turned on the numeric values representing tire locations displayed on the screen all become "E1".

1. There is interference from other electronic device in the vehicle.

Solution : Remove other electronic device in the vehicle to determine if TPMS is interfered by those removed devices.

2. The inner circuits of the display panel failed.

Solution : Ask your distributor to have your receiver replaced, reconfigure its ID using the Single Sensor Replaced (Mode II), and send the defected receiver back to manufacturer for repair.

5. The buzzer has no sound output.

1. The inner circuits of the receiver failed.

Solution : Ask your distributor to have your receiver replaced, reconfigure its ID using the Single Sensor Replaced (Mode II), and send the defected receiver back to manufacturer for repair.

6. The pressure (or temperature) values show the wrong tire locations

1. The IDs of the four tires are not configures correctly

Solution : Ask your installation supplier to reconfigure the IDs of the tires by using the Tire Switching Mode (Mode IV or Mode V).

2. After rotating the tires, it cannot reconfigure the IDs from sensors.

Solution : Ask your installation supplier to reconfigure the IDs of the tires by using the Tire Switching Mode (Mode IV or Mode V).

Thank you for your purchase and enjoy your TPMS!

Manufacturer:

Orange Electronic Co., LTD

5F, No.29, Keya Rd, Central Taiwan Science Park, Taichung 42881, Taiwan

Phone: +886-4-2560-2766

Email: service@orange-electronic.com