

### 13.Connect/Disconnect

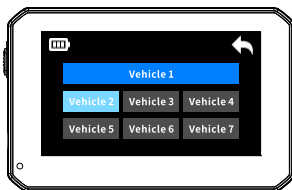
On **Setting Menu Screen 1**, Touch  , Touch dark blue background **Vehicle 1** or each vehicle 2 to 7 to Disconnect Vehicle 1 or Vehicle 2 to 7, touch  to exit.

Touch  , Touch light blue background **Vehicle 1** or each vehicle 2 to 7 to Connect Vehicle 1 or Vehicle 2 to 7, touch  to exit.

**Example shows Vehicle 2 to 7 disconnected:**



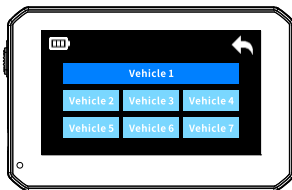
Setting Menu Screen 1



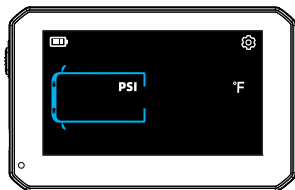
Vehicle Selection Screen



Vehicle Disconnect Screen



Vehicle 1 Connect and Vehicle 2 to 7 Disconnect Screen



Main Screen, Vehicle 1 Connect and Vehicle 2 to 7 Disconnect

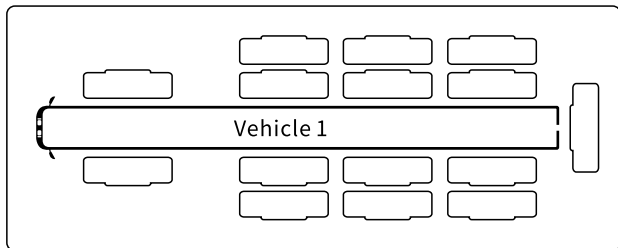
**Note:** The related Vehicle 1 to 7 icon background will turn to dark blue color after connected, The related Vehicle 1 to 7 background will turn to light blue after disconnected.

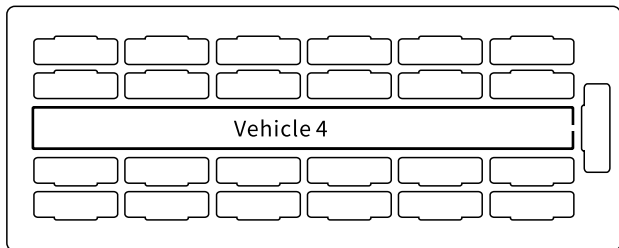
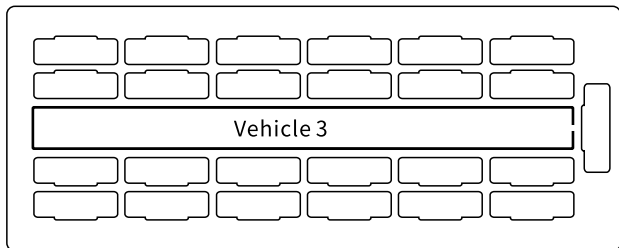
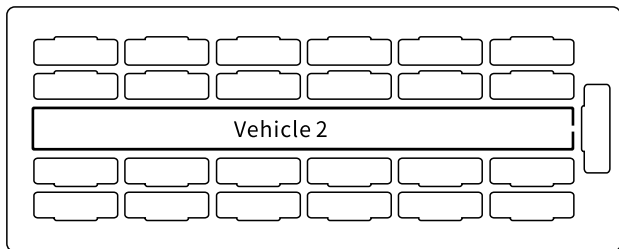
## 14. Sensor Programming

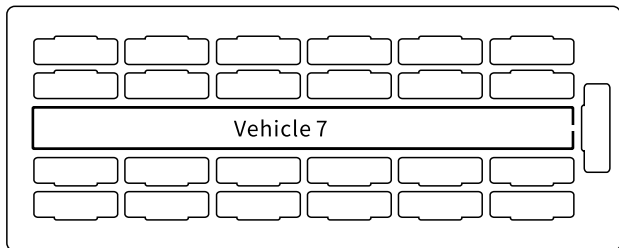
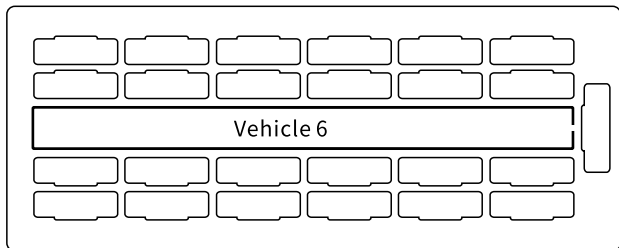
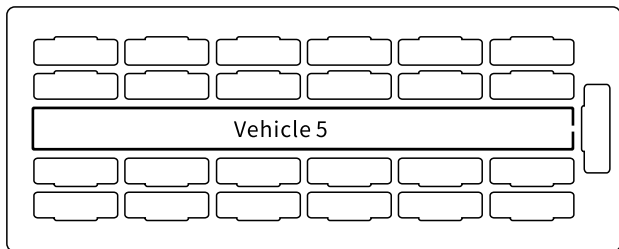
### PROGRAMMED SENSOR REFERENCE DIAGRAM

After pairing your sensors, you may record their 6 digit ID code or sensor location number by tire position using these vehicle diagrams.

This allows you to know which sensor is programmed to which tire position at a glance.



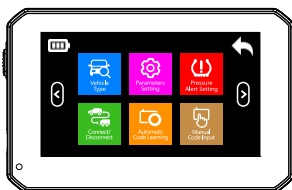




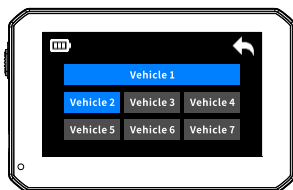
## 15. Automatic Code Learning (OPTION #1, first selection)

### \*Automatic code learning for Vehicle 1

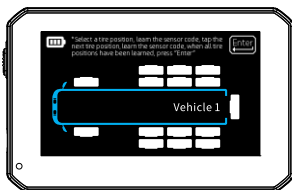
① On **Setting Menu Screen 1**, touch , touch **Vehicle 1**, touch  to select the tire you want to code to the sensor, the selected tire will flash (white tire icon is without code, yellow tire icon is with code), the **Learn** icon will appear on the screen. Touch **Learn** to SCAN sensor ID code to learn.



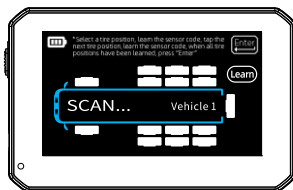
Setting Menu Screen 1



Vehicle Selection Screen

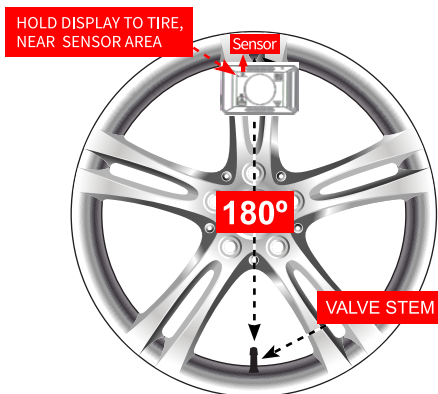
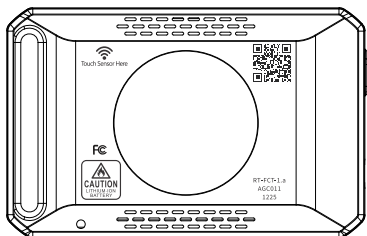


Vehicle 1  
Sensor Code Learning Screen



Vehicle 1  
Sensor Code Learning Screen

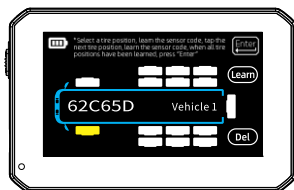
② Touch a sensor to the **Touch Sensor Here** on back top right corner of the display (see below image) to learn sensor ID code.



Internal Sensor Position is 180° from Valve Stem

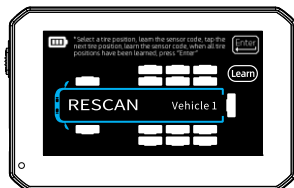
**Note:** For the installed internal sensor, hold display **Touch Sensor Here** to tire, at the sensor location which is located 180° from the valve stem (see image above).

③ If sensor code learning is successful, Sound one beep, the programmed tire icon will turn to Yellow and sensor 6 digit ID code (Example: 62C65D) will appear on **Sensor Code Learning Screen**. Repeat same procedure to pair all remaining tires.



Vehicle 1 Sensor Code Learning Screen

④ If sensor code learning is failure, Sound two beeps, the screen appeared **RESCAN**. Please Learn again.



Vehicle 1 Sensor Code Learning Screen

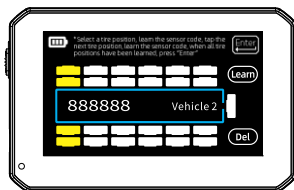
⑤ After finished all sensor paired, touch  to exit, touch two times  to return to **Main Screen**, programmed tire icon will blink yellow and will show pressure and temperature readings.

⑥ **Deleted a single tire ID code:** On the **Sensor Code Learning**, touch yellow , touch , the tire ID code is deleted.

**Note:** If the Cold Tire Pressure (CTP) has not been properly configured for your vehicle, the tire icon will flash red and an alert will sound. Tap the screen to silence the alert, then configure the CTP according to the Cold Tire Pressure Alert settings.

### \* Automatic code learning for Vehicle 2 to 7

On **Setting Menu Screen 1**, Touch , Touch each vehicle (Vehicle 2 to 7) to enter **Sensor Code Learning** settings for respective vehicles and repeat previous Vehicle 1 steps.



Vehicle 2 Sensor Code Learning Screen

## 16. Manual Code Input (OPTION #2)

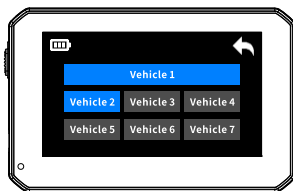
### \*Manual Code Input for Vehicle 1

On **Setting Menu Screen 1**, touch , touch , touch  to select the tire you want to input the ID code, the selected tire will flash (white tire icon is no code, yellow tire icon has code), the  icon will appear on the screen. Touch  to enter the **Keyboard Input Screen** to input 6 digit ID code (Example: 23D177). Factory will laser 6 digit ID code on the sensor body for special internal sensor. Touch  to save and exit, Touch  to delete. Repeat for all remaining tire positions.

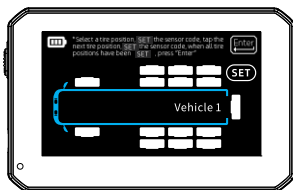
**Note:** If the Cold Tire Pressure (CTP) has not been properly configured for your vehicle, the tire icon will flash red and an alert will sound. Tap the screen to silence the alert, then configure the CTP according to the Cold Tire Pressure Alert settings.



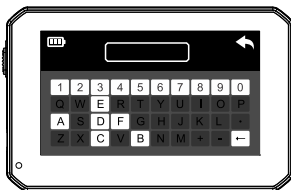
Setting Menu Screen 1



Vehicle Selection Screen



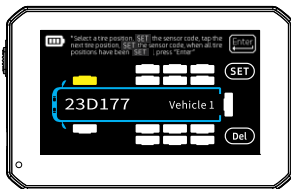
Vehicle 1  
Sensor Code SET Screen



Keyboard Input Screen



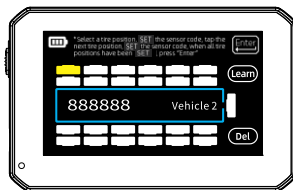
Keyboard Input Screen



Vehicle 1  
Sensor Code SET Screen

## \*Manual Code Input for Vehicle 2 to 7

On **Setting Menu Screen 1**, touch , touch each vehicle (vehicle 2 to 7) to enter **Sensor Code Learning** settings for respective vehicle 2 to 7 and repeat previous Vehicle 1's steps.



Vehicle 2 Sensor Code Learning Screen

### 17. Swap Tire Location

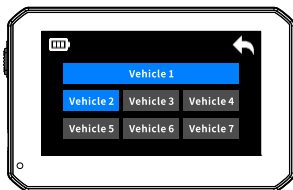
**Note:** Only tires with paired sensors can be swapped.

#### \*Swap Tire Location for Vehicle 1:

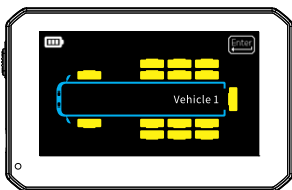
On **Setting Menu Screen 2**, Touch , Touch , Touch one  to select the tire you want to swap (selected tire will flash). Touch another  for the tire you want to swap to. **Swap Tire Sensors screen** will appear. Touch  to save selected tire swap and exit to **Swap Tire Sensors Screen**. Touch  to cancel selected tire swap and exit to **Setting Menu Screen 1**.



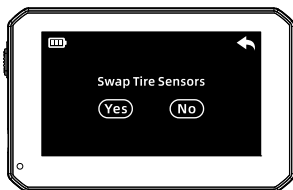
Setting Menu Screen 2



Vehicle Selection Screen



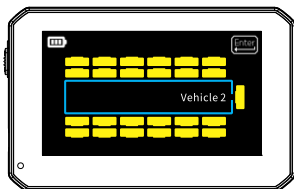
Vehicle 1 Swap Tire Sensors Screen



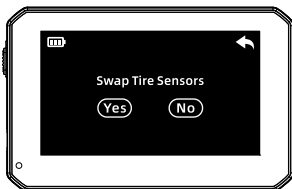
Swap Tire Sensors Screen

### Swap Tire Location for Vehicle 2 to 7:

Touch , touch each vehicle (Vehicle 2 to 7) on the **Swap Tire Sensors** screen to swap each vehicle which you want to swap tire location, and repeat Vehicle 1 steps above.



Vehicle 2 Swap Tire Sensors Screen

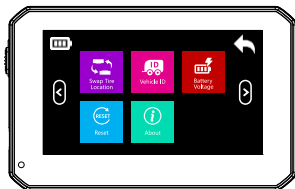


Swap Tire Sensors Screen

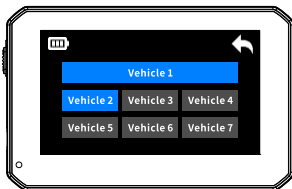
## 18. Custom Vehicle ID

### Custom Vehicle ID's for Vehicle 1:

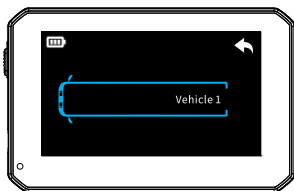
On **Setting Menu Screen 2**, touch , touch , touch  enter the **Full Keyboard Input Screen** to input your vehicle ID. Touch  to save and exit, touch  to exit without saving. Touch  to delete the vehicle ID.



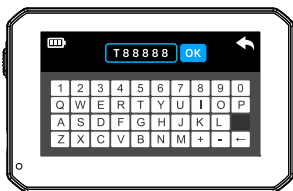
Setting Menu Screen 2



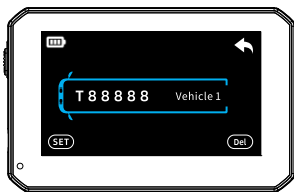
Vehicle Selection Screen



Vehicle 1 ID Screen



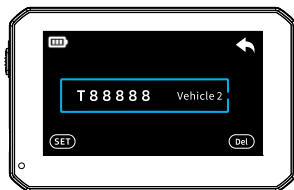
Full Keyboard Input Screen



Vehicle 1 ID Screen

### Custom Vehicle ID's for remaining Vehicle 2 to 7:

Touch  , touch each vehicle (vehicle 2 to 7) to enter Vehicle ID settings for remaining Vehicles and repeat Vehicle 1 steps above to change Vehicle ID.



Vehicle 2 ID Screen

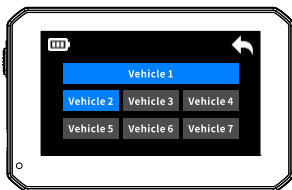
### 19. Sensor Battery Voltage

On **Setting Menu Screen 2**, touch , touch the vehicle that you want to check the sensor battery voltage, touch any  icon to check the sensor voltage, The checking tire icon is flashing, Sensor Battery Voltage will be shown along with selected tire position 6 digit ID code. Touch  to exit.

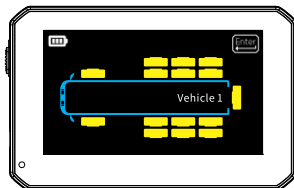
**The example shows Vehicle 1 tire.**



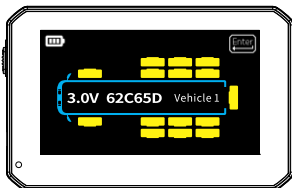
Setting Menu Screen 2



Vehicle Selection Screen



Vehicle 1 Tire Position Screen



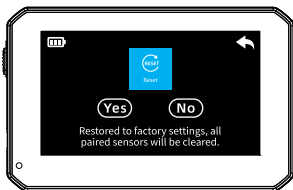
Vehicle 1 Sensor Battery Voltage Reading Screen

### 20.Reset

On **Setting Menu Screen 2**, touch  to **Reset System to Factory Defaults**. Touch  to restore to factory settings, all paired sensors will be cleared, all input vehicle ID will be cleared. Touch  or  to exit.



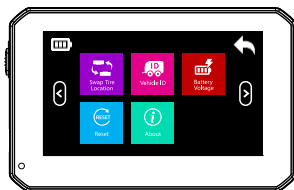
Setting Menu Screen 2



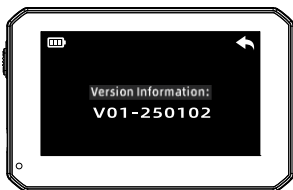
Reset Factory Default Setting Screen

### 21.About

On **Setting Menu Screen 2**, Touch  to show system Version Information, Touch  to exit.



Setting Menu Screen 2



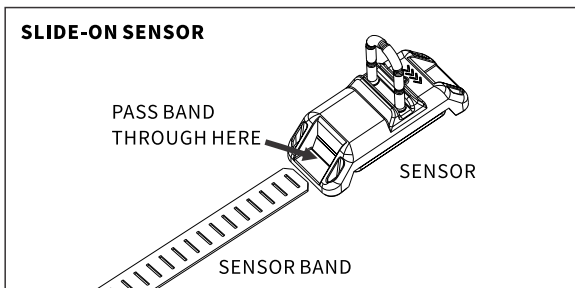
Version Screen

## 22.INTERNAL BAND SENSOR INSTALLATION

Always consult with a Certified Safety Consultant prior to any installation procedures. Read and understand all instructions and procedures before service to components begins.

### Prepare **SLIDE-ON SENSORS** with metal band:

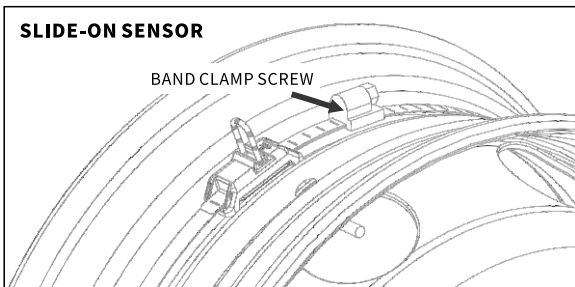
Pass the end of the band through the sensor and slide sensor to within a few inches of the band clamp screw, see below image:



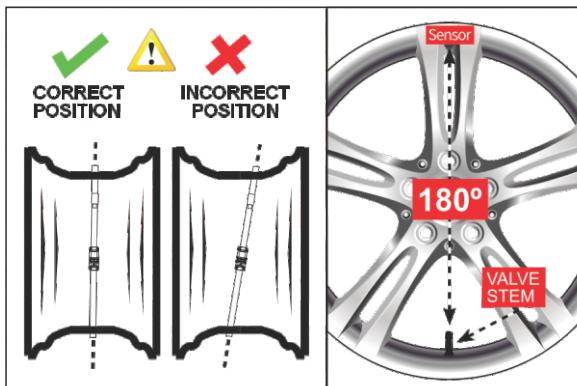
### Install internal sensor with metal band:

1. Remove the wheel from the vehicle and deflate the tire.
2. Remove the tire from the wheel.
3. Put the sensor and band clamp in the **Center Position** of the wheel hub (180° position from the tire valve) and pass the band through the band clamp screw, then again through the belt-mounted sensor, tighten the band clamp to 30-45 in-lbs on the wheel hub. Ensure sensor does not move laterally or rotate on wheel hub. See below image.

### SLIDE-ON SENSOR



PASS BAND THROUGH BAND CLAMP SCREW THEN THROUGH SENSOR AGAIN TO SECURE EXCESS BAND

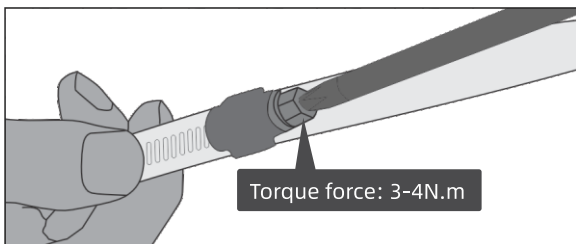


**IMPORTANT:** Sensor should be installed in the center “well” of the wheel 180 degrees from the tire valve stem.

**IMPORTANT:** Sensor should be installed 180 degrees from the tire valve stem, see above image.

**CAUTION:** MAKE SURE THE SENSOR BAND IS CORRECTLY INSTALLED ON THE WHEEL HUB AND DOES NOT MOVE Laterally OR ROTATE. SEE ABOVE IMAGE.

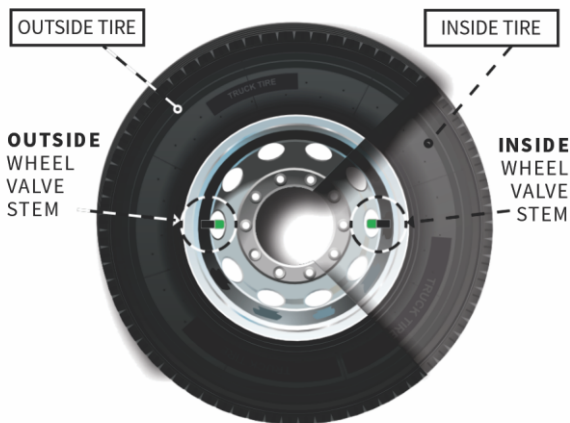
4. Torque the band clamp screw to 26.5-35.4 in-lbs (3~4 N.m). See below image:



5. Install the tire onto the wheel and inflate to the manufacturer's recommended pressure.
6. Check the tire balance per the tire balance machine instructions.
7. Install the wheel/tire assembly onto the vehicle per manufacturer's instructions.

**Recommended installation orientation for the internal sensor TPMS - equipped Dual Wheel Vehicles.**

Please review the following instructions to ensure proper orientation of internal TPMS sensors using the 180 degrees valve stem orientation method. See below image:

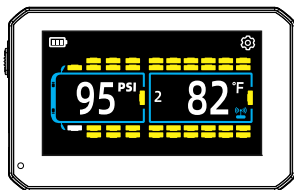


**NOTE: Dual Wheel Equipped Vehicles MUST be mounted with valve stems oriented 180° from each other to allow pairing of internal TPMS Sensors.**

## 23. REPEATER INSTALLATION

The repeater is an integral component to your TPMS system. Failure to install the repeater could void the warranty coverage

The repeater icon  will appear on the display, when connected.



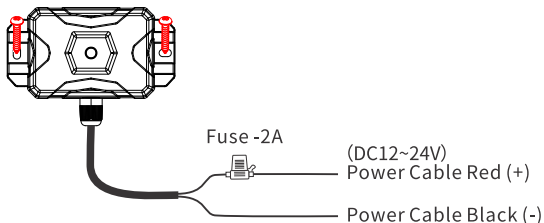
The repeater is used to strength/amplify the sensor signal to the display. A repeater is packaged with this system.

1. The repeater is wired to a 12V source that will be constant while driving.
2. The repeater comes with two wires, one RED(+) and one Black(-). Simply connect the RED wire to a positive source and Black wire to a ground or negative source.
3. The repeater is weather resistant, no additional setup is needed for the repeater.

**Note:** The White light on repeater will illuminate “constant or blinking” (the repeater will illuminate with a constant light when power is applied, once the display is on and the sensors are reporting. The light will blink occasionally when transmitting information to the display).

If the light is not on, check your connections, such as the power source or the in-line fuse on the positive lead of the repeater for issues.

**Install the screws into the holes on both side of the repeater to secure the repeater to the vehicle.**



**NOTE:**

1. The repeater can be installed inside of a vehicle in a location with no signal interference. If you are encountering signal interference with the repeater mounted inside, we suggest re-installing the repeater on the outside of the vehicle near the rear axle.
2. Repeater Installation Check – It is recommended to install the repeater near the rear axle of the vehicle. Verify the display to check for the repeater icon. If the icon appears, the installation is successful. If the icon does not appear, adjust the repeater's installation position until the icon is displayed on the screen.

## 24.TROUBLESHOOTING TIPS

### **1. How does the display mount to the suction cup mount?**

The suction cup mount has a circle magnetic plate that affixes to the back of the display, Simply mount the suction cup assembly where you want it and touch the back of the display to its surface.

### **2. What is the small antenna icon for on the display screen?**

The antenna (Repeater Signal) icon tells you that the repeater you installed is functioning properly, amplifying the signal from the tire sensors to the display.

### **3. How can I change the brightness of the display?**

The display has a photo eye that automatically regulates the display brightness. There is no manual override for it. At night, the display dims. During daylight, the display brightens.

### **4. What is the battery icon on the upper left corner of Main Screen indicating?**

That battery icon is showing the amount of battery charge for the internal battery in the display only.

### **5. How long should I initially charge the internal display battery?**

The display comes partially charged but you should charge the display using the included USB-C Cable for 4 to 5 hours.

### **6. How long will the battery last in the display and can it be changed?**

The display battery will last many years. It is designed to last the life of the display. When the internal battery is exhausted, it cannot be replaced.

### **7. How long will the screen stay on when running it on the battery?**

It is recommended that you run the display on the internal battery and not have it plugged into a USB outlet all the time. Charge the display for several hours before you leave on a trip and run it off the battery.

**Display Battery Management Note:** The display is equipped with a lithium battery, which is designed for optimal performance when regularly charged and discharged, ensuring a longer overall lifespan.

**8. Normally, the tire icons scroll from one to another and show me individual temperature and pressure. How can I select one tire if I do not want to wait for the tire icons to cycle through?**

You can just touch on a tire position icon to instantly view temperature and pressure for that tire.

**9. How do I look at tire information on a tire without waiting for the display to scroll to that tire?**

On the Main Screen, simply touch the tire icon to check its information.

**10. Can this display alert me to low sensor battery voltage?**

Yes, there is Sensor Low Battery Alert, when there is an alert, the tire position icon will change from yellow to RED and flash, low battery alert icon and **LOW BATTERY** text will flash, audible alert will beep sound and RED LED will flash.

**11. Is there way to get the six digit sensor code from the display?**

Yes, on the same screen you see the sensor battery voltage, the sensor code will appear next to the voltage readout. Touch on the tire you want to see the sensor code.

**12. Is there a way to reset the display?**

Yes, touch on the “Settings” icon on the Main Unit. On the second screen, touch “Reset” and “Yes” icons to restore to factory default settings. All paired sensors will be cleared, all input vehicle ID will be cleared. All the setting restores to factory default settings.

**13. How do I know what tire pressure settings to use for my high and low pressure alerts?**

This display will automatically set up your alert parameters when you input the Cold Tire Pressure you are using for your tires. It will set the high pressure alert to 25% above that pressure and low pressure alert to 10% below that pressure. You can also set your high and low pressure alerts manually by “Manual Input High and Low Pressure Alert” if you prefer.

**14. If I have a Tag Axle, how do I set up the High and Low pressure alerts in the display since there is no Tag Axle shown in the pressure sections?**

To set up Tag Axle pressure, touch “Pressure Alert Setting”, touch “Vehicle 1”, touch “Manual Input High and Low Pressure Alert”. From there, input the HIGH (High Pressure PSI, 25% above cold tire pressure) and LOW (Low Pressure PSI, 10%) pressure alert threshold.

**15. What kind of alert will I get if one or more of my tires are out of the parameters I set?**

You will get three visual alerts and one audible alert. Text on the screen showing what the alert is, the tire icon will change from yellow to RED and a RED LED will flash in the lower left corner of the display. The display will beep to signify an alert has occurred.

**16. What does a “Fast Leak” warning mean?**

The tire showing the alert is losing 2 PSI or greater in less than 1 minute, find a safe place to pull over and check the tire as soon as possible.

**17. Is there a way to silence the alert?**

Yes, just touch anywhere on the screen.

**18. Do I have to set up the High and Low Temperature alerts?**

There is no Low Temperature alert, Low Temperature below 158°F is preferable. There is no need to monitor low temperatures.

**19. What mode do I use to code a sensor into the display? Automatic or manual?**

Typically, you better use the “Automatic Code Learning” to pair the sensor due to it is easy and for the first selection, for special sensor which factory had marked 6 digit ID code on the sensor body, you can use “Manual Code Input” to input the ID code directly.

**20. When I turn the display on, I do not see any tire pressure or temperature readings... What's up?**

The system takes around 2 minutes to acquire all sensors readings. It is not immediate.

**21. I have two different trailers I pull, both with sensors, how can I hide the tire icons for the trailer I am not pulling?**

The display has a feature called “Auto-hide”, drive away from the trailer that is not hooked up to the towing vehicle in approximately 5 minutes, the trailer 1 will be made invisible on the screen automatically. You may also use the “Connect/Disconnect” feature to hide it manually and permanently.

**22. I have been at a rest stop for a while and now my display is blank, why?**

The display has a motion detection feature, if it does not detect motion for approximately 10 minutes, the screen will enter the sleep mode to conserve the internal battery, any movement of the display or touch the LCD will activate the screen.

**23. Why are there dashed lines across the screen for one of my sensors?**

Dashed lines mean the sensor signal is not getting from the sensor to the display. It could possibly be caused by interference, a dead sensor battery or a repeater not functioning, among others things, sensor troubleshooting may be needed.

**25.DISPLAY SPECIFICATIONS**

|                             |                                           |
|-----------------------------|-------------------------------------------|
| Operating Temperature Range | -4°F to 176°F , -20°C to 80°C             |
| Storage Temperature Range   | -22°F to 185°F , -30°C to 85°C            |
| Frequency                   | 433.92 MHz                                |
| Pressure Range              | 0 to 188PSI , 0 to 13BAR                  |
| Input Voltage               | DC 5V                                     |
| Size ( L*W*H)               | 4.96" x 3.15" x 0.86"<br>126 x 80 x 22 mm |
| Weight                      | 7.76 oz , 220 grams                       |

**26.REPEATER SPECIFICATIONS**

|                             |                                                                                             |
|-----------------------------|---------------------------------------------------------------------------------------------|
| Operating Temperature Range | -4°F to 176°F , -20°C to 80°C                                                               |
| Storage Temperature Range   | -22°F to 185°F , -30°C to 85°C                                                              |
| Frequency                   | 433.92 MHZ                                                                                  |
| Transmission Power          | ≥10dBm                                                                                      |
| Working Voltage             | DC 12 to 24V                                                                                |
| Weight                      | 3.53 oz , 100 grams                                                                         |
| Size ( L*W*H)               | 4.84" x 3.43" x 1.22", the wire length is 18"<br>123 x 87 x 31 mm, the wire length is 457mm |

## 27.INTERNAL SENSOR SPECIFICATIONS

|                             |                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------|
| Operating Temperature Range | -40°F to 230°F , -40°C to 110°C                                                                |
| Storage Temperature Range   | -40°F to 248°F , -40°C to 120°C                                                                |
| Frequency                   | 433.92 MHz                                                                                     |
| Pressure Range              | 0 to 188PSI , 0 to 13BAR                                                                       |
| Pressure Accuracy Range     | ±1.5 PSI , ±0.1 BAR                                                                            |
| Temperature Accuracy Range  | ±5.4 °F , ±3 °C                                                                                |
| Transmission Power          | <10dBm                                                                                         |
| Approximate Battery Life    | Up to 4 years, built-in CR2050HR, non-replaceable                                              |
| Weight                      | 1 oz , 28.5 grams                                                                              |
| Size ( L*W*H)               | 2.64" x 1.1" x 0.9" (including U Antenna 1.97" )<br>67 x 28 x 23 mm (including U Antenna 50mm) |



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Implementation Standard: GB26149-2017 - Made in China

**FCC Caution:**

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

**RF Exposure**

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

**ISED Statement**

English: This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

French: Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux RSS exemptés de licence d'Innovation, Sciences et Développement économique Canada.

L'exploitation est soumise aux deux conditions suivantes :

- (1) Cet appareil ne doit pas provoquer d'interférences.
- (2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

l'appareil numérique du ciem conforme canadien peut - 3 (b) / nmb - 3 (b).

This device meets the exemption from the routine evaluation limits in section 6.6 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 6.6 du cnr - 102 et conformité avec rss 102 de l'exposition aux rf, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs rf et la conformité.

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment. Cet équipement est conforme aux limites d'exposition aux rayonnements du Canada établies pour un environnement non contrôlé.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps

.