# Table of Contents

Record of Revisions .................................................................................................................... 3
Service Notes ................................................................................................................................. 4

About this Manual ......................................................................................................................... 4
Before You Begin .......................................................................................................................... 4
Hazard Alert Messages and Torque Symbols .................................................................................. 4
Additional Information .................................................................................................................... 4
Introduction .................................................................................................................................. 4

TireView™ TPMS System Components ......................................................................................... 5-6
TireView™ TPMS Display Features ................................................................................................. 7

TireView™ TPMS Display Normal Scrolling .................................................................................. 7
TireView™ TPMS Display Backlight and Motion Detection ............................................................. 7

Charging the TPMS Display .......................................................................................................... 7
TireView™ TPMS Display Controls ............................................................................................... 8
TireView™ TPMS Display Icons .................................................................................................... 8
TireView™ TPMS Display Specifications ...................................................................................... 8
TireView™ TPMS Repeater Features ........................................................................................... 9
TireView™ TPMS Repeater Specifications ..................................................................................... 9
TireView™ TPMS Internal Sensor Features .................................................................................. 9
TireView™ TPMS Internal Sensor Specifications ....................................................................... 9

TireView™ TPMS Cap and Large Bore Sensor Features ............................................................... 10
TireView™ TPMS Cap and Large Bore Sensor Specifications ...................................................... 10

Setting ID Truck Three-Digit Identifier ....................................................................................... 11
Setting ID Trailer Three-Digit Identifier and Trailer Selection .................................................. 11

Programming Sensor Codes into the Display .......................................................................... 12

Automatic Code Learning (option #1) .......................................................................................... 12
Pressure Code Learning (option #2) ............................................................................................. 13
Manual Coding (option #3) ......................................................................................................... 13

Swap Tire Sensor Positions .......................................................................................................... 13

Delete Sensor ID Codes from the TireView™ TPMS Display ....................................................... 14
Delete a Sensor ID Code .............................................................................................................. 14
Delete All Sensor ID Codes ......................................................................................................... 14

Repeater Installation ................................................................................................................... 15
Repeater Mounting ....................................................................................................................... 15
Repeater Wiring ........................................................................................................................... 15
Repeater Indicator Lights .......................................................................................................... 15

Sensor Installation ....................................................................................................................... 16
Installing the Cap Sensor After Code Pairing ............................................................................ 16
Install the Internal Sensor .......................................................................................................... 16-17

Setting the Sensor Alarms ........................................................................................................... 18
Setting the Displayed Pressure Units .......................................................................................... 18
Setting the Low Pressure Alarm ................................................................................................. 18-19
Setting the High Pressure Alarm .............................................................................................. 19-20
Setting the Displayed Temperature Units ............................................................................... 20
Setting the High Temperature Alarm ......................................................................................... 20-21

Restore the TireView™ TPMS Display to Factory Settings ....................................................... 21

TireView™ TPMS Display Alerts ................................................................................................. 22
Tire Pressure and Temperature Alerts ......................................................................................... 22
Fast Leak Alert ............................................................................................................................. 22
Sensor Low Battery Alert ........................................................................................................... 22

Connect / Disconnect A Tractor from the TPMS Display ............................................................ 22
Connect / Disconnect A Trailer from the TPMS Display ............................................................ 22

TireView™ TPMS Flow-thru Bracket Assembly ........................................................................ 23-24
TireView™ TPMS Flow-thru Bracket Installation ....................................................................... 25-26
TireView™ TPMS System Troubleshooting ............................................................................ 27

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Record of Revisions

Retain this record in front of the manual. Upon receipt of a revision, insert revised pages in the manual, enter revision number, date filed, and initial.

<table>
<thead>
<tr>
<th>Revision Number</th>
<th>Revision Date</th>
<th>Date Filed</th>
<th>By</th>
</tr>
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<tr>
<td>A</td>
<td>May 28, 2019</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>June 25, 2019</td>
<td></td>
<td>CS</td>
</tr>
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<td>C</td>
<td>February 18, 2020</td>
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Service Notes

About this Manual

This manual provides installation and maintenance procedures for TireView™ TPMS by P.S.I. Use the procedures in this manual to install the system on commercial vehicles.

Before You Begin

⚠️ CAUTION: DO NOT PERFORM UNAUTHORIZED MAINTENANCE OR REPAIR PROCEDURES, OR INSTALL NON-P.S.I.® COMPONENTS ON ANY P.S.I. © SYSTEM. THIS CAN VOID THE WARRANTY.

1. Read and understand all instructions and procedures before service to components begins.
2. Read and observe all Warning and Caution alert messages in this publication. They provide information that can prevent personal injury, damage to components, or both.
3. Follow the P.S.I. installation, maintenance, service, and troubleshooting guidelines.
4. Use special tools, when required, to avoid personal injury and damage to components.

Hazard Alert Messages and Torque Symbols

⚠️ WARNING:
A Warning alerts the technician to an instruction or procedure that must be followed to avoid personal injury and damage to components.

⚠️ CAUTION:
A Caution alerts the technician to an instruction or procedure that must be followed to avoid damage to components.

🔧 TORQUE REQUIRED:
The torque symbol alerts the technician to tighten fasteners to a specified torque value.

Additional Information

Visit the Resource section at www.tireview.com to access and request additional information.
Call P.S.I.® at 210.222.1926 (United States and Canada) or email info@tireview.com or techsupport@tireview.com.

Introduction

The P.S.I.® TireView™ Tire Pressure Monitoring System (TPMS) is designed to monitor air pressure and temperature in the tire. It is only for added safety and not meant to replace regular tire maintenance and exercise of reasonable care when operating a motor vehicle.

The system cannot prevent accidents nor will P.S.I.® be responsible for damage or injury due to (a) improper use,(b) failure to follow the product manufacturer's instructions or to perform preventative maintenance, (c) unauthorized repair or modifications, (d) use of products beyond their useful life, or (e) external causes such as accidents, abuse, or other actions or events outside of P.S.I.® control.
**Figure 1: TireView™ TPMS System Components**

**TireView™ TPMS System Components**

<table>
<thead>
<tr>
<th>Component Description</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>TireView Display, Color or Monochrome, USB or Hardwire</td>
<td><img src="image1" alt="Display" /></td>
</tr>
<tr>
<td>Display Mount Kit</td>
<td><img src="image2" alt="Mount Kit" /></td>
</tr>
<tr>
<td>Display Mount, Dash Cradle</td>
<td><img src="image3" alt="Dash Cradle" /></td>
</tr>
<tr>
<td>Display Mount, Fixed Base w/Hardware</td>
<td><img src="image4" alt="Fixed Base" /></td>
</tr>
<tr>
<td>Display Mount, Suction Cup</td>
<td><img src="image5" alt="Suction Cup" /></td>
</tr>
<tr>
<td>Power Cord, 12 VDC USB</td>
<td><img src="image6" alt="Power Cord" /></td>
</tr>
<tr>
<td>Power Adapter, 12 VDC USB</td>
<td><img src="image7" alt="Power Adapter" /></td>
</tr>
<tr>
<td>Component Description</td>
<td>Image</td>
</tr>
<tr>
<td>------------------------------------------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Repeater, 58 inch pigtail</td>
<td>![Repeater Image]</td>
</tr>
<tr>
<td>Internal Sensor Kit (Includes wheel band and hardware)</td>
<td>![Internal Sensor Kit Image]</td>
</tr>
<tr>
<td>Cap Sensor</td>
<td>![Cap Sensor Image]</td>
</tr>
<tr>
<td>Large Bore Cap Sensor</td>
<td>![Large Bore Cap Sensor Image]</td>
</tr>
<tr>
<td>Wiring Harness, 40'</td>
<td>![Wiring Harness 40' Image]</td>
</tr>
<tr>
<td>Wiring Harness, 70'</td>
<td>![Wiring Harness 70' Image]</td>
</tr>
<tr>
<td>ABS Drop Harness</td>
<td>![ABS Drop Harness Image]</td>
</tr>
<tr>
<td>Cable Ties</td>
<td>![Cable Ties Image]</td>
</tr>
</tbody>
</table>
TireView™ TPMS Display Features

1. Easy to read display screen
2. Manual On/Off power slide-switch (USB only)
3. Internal, non-replaceable, lithium-ion battery
4. Includes suction cup, fixed base and dash cradle mounts
5. Display wake up activation when in motion
6. Automatic backlighting
7. Programmable high and low pressure alarm thresholds
8. Programmable high temperature alarm
9. Visual and audible warning alarms for when temperature or pressure exceeds limits
10. Selectable pressure units: PSI or BAR
11. Selectable temperature units: °C or °F
12. Program up to 115 tires, including up to four trailers and 5 spares
13. Quick, simultaneous view of each tire pressure and temperature
14. Electronically remove a tractor or trailer from the display
15. Push button programming
16. Hardwire or USB power (USB includes 12 VDC USB power adapter with 12 VDC USB power cable)
17. Tire pressure and temperature settings per axle on power unit and by axle group on trailer

TireView™ TPMS Display Normal Scrolling

1. Automatic scroll/cycle of tire icons every five to six seconds
2. Manual scroll/cycle delay using the + or - buttons
3. 10 second delay after manual scroll/cycle; automatic scroll/cycle resumes after delay

TireView™ TPMS Display Backlight and Motion Detection

1. Ambient light sensor on the lower right of the display
2. Motion detection from tire sensor feedback
3. Backlight is adjusted when there is low or high ambient light and the vehicle is in motion
4. The display goes to sleep when the vehicle stops for ten minutes or more when using the internal battery
5. The power slide-switch will not turn the display off if the display is plugged into a constant power source. Unplug the USB cable and the power slide-switch will function.

NOTE: Power switch is disabled in hardwire configuration.

Charging the TPMS Display

The TPMS display is powered by a non-replaceable, lithium-ion battery. A battery level indicator is located on the left side of the display screen.

1. When the indicator shows one bar, it is recommended to charge the display battery as soon as possible to avoid disruption when in use.
2. It will take approximately four hours to fully charge the display battery.
3. A fully charged display can operate for five to seven days on battery power depending on usage.
TireView™ TPMS Display Controls

1. Display Unit
2. Antenna
3. Go Button
4. Set Button
5. Back Button
6. + (plus) Button
7. - (minus) Button
8. Red LED Indicator
9. Ambient Light Sensor
10. Display Screen
11. Power Slide Switch
12. Display Mount Attachment

TireView™ TPMS Display Icons

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🌡️</td>
<td>Tire</td>
</tr>
<tr>
<td>⚠️</td>
<td>Warning</td>
</tr>
<tr>
<td>°F / °C</td>
<td>Temperature unit (Selectable)</td>
</tr>
<tr>
<td>BAR / PSI</td>
<td>Pressure unit (Selectable)</td>
</tr>
<tr>
<td>⚡</td>
<td>Sensor low battery</td>
</tr>
<tr>
<td>⚡</td>
<td>Display battery indicator</td>
</tr>
<tr>
<td>⚡️</td>
<td>Repeater active</td>
</tr>
</tbody>
</table>

TireView™ TPMS Display Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Operating Range</td>
<td>-4°F to 176°F / -20°C to 80°C</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-22°F to 185°F / -30°C to 85°C</td>
</tr>
<tr>
<td>Display Input Voltage</td>
<td>5 to 24V DC</td>
</tr>
<tr>
<td>Frequency</td>
<td>433.92MHz</td>
</tr>
<tr>
<td>Size</td>
<td>4.6&quot;(L) x 2.99&quot;(W) x 1.06&quot;(D)</td>
</tr>
<tr>
<td></td>
<td>117mm(L) x 76mm(W) x 27mm(D)</td>
</tr>
<tr>
<td>Weight</td>
<td>4.4 oz. (125 grams)</td>
</tr>
</tbody>
</table>
Repeater Features
1. Strengthen/amplify the sensor signal to the display
2. 3.3-30 VDC hard-wired power source for constant power while driving
3. Red light operational indicator; mostly steady with occasional blinking
4. Waterproof
5. Interior or exterior installation
6. There is no set-up needed for the repeater

Repeater Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Operating Range</td>
<td>-4°F to 176°F / -20°C to 80°C</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-40°F to 85°F / -40°C to 85°C</td>
</tr>
<tr>
<td>Frequency</td>
<td>433.92MHz</td>
</tr>
<tr>
<td>Working current</td>
<td>≤100mA</td>
</tr>
<tr>
<td>Standby current</td>
<td>≤10mA</td>
</tr>
<tr>
<td>Working Voltage</td>
<td>3.3V to 30V</td>
</tr>
<tr>
<td>Size</td>
<td>3.07&quot;(L) x 2.48&quot;(W) x .63&quot;(D)</td>
</tr>
<tr>
<td></td>
<td>78mm (L) x 63mm (W) x 16mm (D)</td>
</tr>
<tr>
<td>Weight</td>
<td>4.4 oz. (125 grams)</td>
</tr>
</tbody>
</table>

Internal Sensor Features
1. Compact and robust installation on the wheel hub
2. Sealed, water resistant construction
3. Pressure and temperature data are sent to the display
4. Long-life sensor batteries
5. Detects tire air leaks and high temperatures
6. Unique six digit code on each sensor for pairing
7. Sensor has a fully sealed non-replaceable battery

Internal Sensor Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Operating Range</td>
<td>-40°F to 230°F / -40°C to 110°C</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-40°F to 248°F / -40°C to 120°C</td>
</tr>
<tr>
<td>Pressure Range</td>
<td>1 to 188PSI / 1 to 13BAR</td>
</tr>
<tr>
<td>Pressure Accuracy Range</td>
<td>±1.5PSI / ±0.1BAR</td>
</tr>
<tr>
<td>Temperature Accuracy Range</td>
<td>± 5.4°F / ± 3°C</td>
</tr>
<tr>
<td>Transmission Power</td>
<td>&lt;10 dBm</td>
</tr>
<tr>
<td>Transmission Frequency</td>
<td>433.92 MHz</td>
</tr>
<tr>
<td>Approximate Battery Life</td>
<td>Up to 4 years</td>
</tr>
<tr>
<td>Physical Sensor Size</td>
<td>2.64&quot;(L) x 1.26&quot;(W) x 0.70&quot;(H)</td>
</tr>
<tr>
<td></td>
<td>67mm (L) x 32mm (W) x 18mm (H)</td>
</tr>
<tr>
<td>Sensor Weight</td>
<td>1.38 oz. (39 grams)</td>
</tr>
</tbody>
</table>
**Cap Sensor and Large Bore Cap Sensor Features**

1. Easy installation on the valve stem
2. Sealed, water resistant construction
3. Pressure and temperature data are sent to the display
4. Disconnects battery power when sensor is removed
5. Long-life sensor batteries
6. Detects tire air leaks and high temperatures
7. Unique six digit code on each sensor for pairing
8. Cap Sensor has a fully sealed non-replaceable battery
9. Large Bore Cap Sensor has a user-replaceable battery (CR1632)

### Cap Sensor Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Operating Range</td>
<td>-40°F to 176°F / -40°C to 80°C</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-40°F to 185°F / -40°C to 85°C</td>
</tr>
<tr>
<td>Pressure Range</td>
<td>1 to 188PSI / 1 to 13BAR</td>
</tr>
<tr>
<td>Pressure Accuracy Range (with a digital gauge)</td>
<td>±3PSI / ±0.2BAR</td>
</tr>
<tr>
<td>Temperature Accuracy Range</td>
<td>± 5.4°F / ± 3°C</td>
</tr>
<tr>
<td>Transmission Power</td>
<td>&lt;10 dBm</td>
</tr>
<tr>
<td>Transmission Frequency</td>
<td>433.92 MHz</td>
</tr>
<tr>
<td>Approximate Battery Life</td>
<td>2 to 3 years</td>
</tr>
<tr>
<td>Physical Sensor Size</td>
<td>1.16&quot;(D) x 1.02&quot;(H)</td>
</tr>
<tr>
<td></td>
<td>29.5mm (D) x 26mm (H)</td>
</tr>
<tr>
<td>Sensor Weight</td>
<td>0.88 oz. (25 grams)</td>
</tr>
</tbody>
</table>

### Large Bore Cap Sensor Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Operating Range</td>
<td>-40°F to 176°F / -40°C to 80°C</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-40°F to 185°F / -40°C to 85°C</td>
</tr>
<tr>
<td>Pressure Range</td>
<td>1 to 188PSI / 1 to 13BAR</td>
</tr>
<tr>
<td>Pressure Accuracy Range (with a digital gauge)</td>
<td>±3PSI / ±0.2BAR</td>
</tr>
<tr>
<td>Temperature Accuracy Range</td>
<td>± 5.4°F / ± 3°C</td>
</tr>
<tr>
<td>Transmission Power</td>
<td>&lt;10 dBm</td>
</tr>
<tr>
<td>Transmission Frequency</td>
<td>433.92 MHz</td>
</tr>
<tr>
<td>Approximate Battery Life</td>
<td>1 to 1.5 years</td>
</tr>
<tr>
<td>Physical Sensor Size</td>
<td>0.98&quot;(D) x 1.09&quot;(H)</td>
</tr>
<tr>
<td></td>
<td>25(D) x 27.7(H) mm</td>
</tr>
<tr>
<td>Sensor Weight</td>
<td>1.13 oz. (32 grams)</td>
</tr>
</tbody>
</table>
Setting ID Truck Three-Digit Identifier

1. Press the SET button until the display beeps and then release it.
2. Press the + button until SET ID TRUCK mode shows on the TPMS display.
3. Press the SET button to enter the SET ID TRUCK mode.
4. Press the SET button again. The first digit will blink.
5. Press the + button or the - button to select the first digit.
6. Press the GO button to move to the next digit.
7. Do steps 5-6 again for the second and third digits.
8. Press the SET button to save the three-digit ID.
9. Press the BACK button two times to return to the main screen.

Setting ID Trailer Three-Digit Identifier and Trailer Selection

NOTE: Four trailers with sensors can be paired into the TireView™ TPMS display and each can be selected to be viewed on the TireView™ TPMS display.

When selecting a trailer on the TireView™ TPMS display:

NOTE: Be sure to adjust the high pressure and low pressure alarms for each trailer that has sensors paired to it.

On the main screen:
1. Press the GO button to scroll/cycle and view the trailers that have sensors installed on them.
2. Press the SET button until the display beeps and then release it.
3. Press the + button until SET ID TRAILER shows on the TPMS display.
4. Press the SET button to enter that mode.
5. Press the GO button to scroll/cycle to the desired trailer (1-4).
6. Press the SET button again. The first digit will blink.
7. Press the GO button to go to the first digit on the trailer section on the TPMS display.
8. Press the + button or the - button to select the value of the first digit.
9. Press the GO button to go to the next digit.
10. Do steps 7-8 again for the second and third digits.
11. Press the SET button to save the three-digit trailer ID.
12. Press the GO button to scroll/cycle to the next trailer.
13. Do steps 5-10 again to set the three-digit trailer ID for the remaining trailers.
14. Press the BACK button two times to return to the main screen.
Programming Sensor Codes into the Display

**NOTE:** Keep all sensors at least three feet away from the sensor being paired.

1. Sensors will begin reading as soon as they are coded into the display. When returning to the main screen by pushing the **BACK** button twice, you may hear an alarm and see a pressure reading of “0”. This is normal. Once the high/low settings are in place and set up is complete, these alarms will not sound. Simply push any button quickly to silence the alarm.

**NOTE:** It is recommended to label each sensor first with the provided tire position stickers, similar to the following pattern, before you code the sensors. This allows for easy sensor and tire position identification. See *Figure 3.*

![Figure 3: Tire Sensor Position Pattern](image)

**Automatic Code Learning (option #1)**

**NOTE:** Code all of the sensors to the display BEFORE screwing them onto the tire valve stem, unless otherwise noted.

1. Push and hold the **SET** button until it beeps. The **HI PRESSURE SET** parameter will blink at the bottom of the screen. Push the **+** button and scroll through the parameters until **LEARN ID** appears.

2. Quickly push and release the **SET** button. The first tire on the display will blink. If programming a different tire, press the **+** button to move to the correct tire. Push the **SET** button again and **FFF FFF** will flash. Touch the desired sensor for that tire position to the bottom of the display and then push the **GO** button. See *Figure 4.*

![Figure 4: Recommended Sensor Position for Automatic Code Learning](image)

3. The display will capture the sensor code and show it on the screen. Push and release the **SET** button to save the code to that tire position. When coded correctly, a unique six-digit code will be shown.

4. Use the **+** button to move to the next tire position to be programmed. Push and release the **SET** button and **FFF FFF** will flash. Place the sensor for that tire position at the bottom of the display and press the **GO** button to capture the sensor code. See *Figure 4.* Press **SET** again to save. Continue this process for each tire position/sensor.

5. When all the sensors have been coded, pressing the **BACK** button twice will take you to the main screen.

**NOTE:** The sensors will begin reading “0” pressure and an alarm will sound. This is part of the normal setup process. Press any button to silence the alarm while you continue your setup.
Pressure Code Learning (option #2)

1. Screw the sensors partly onto each designated valve stem. Do NOT screw them down far enough to hear air escaping out.

2. Push and hold the SET button until it beeps. The HI PRESSURE SET parameter will blink at the bottom of the screen. Push the + button and scroll through the parameters until LEARN ID appears.

3. Quickly push and release the SET button. The first tire on the display will blink. If programing a different tire, press the + button to move to the correct tire. Push the SET button again and FFF FFF will flash.

4. Tighten the sensor down on the corresponding tire valve stem. The sensor code will display and flash.

5. The display will capture the sensor code and show it on the screen. Push and release the SET button to save the code to that tire position. When coded correctly, a six-digit unique code will be shown.

6. To remove the sensor code, push BACK once. FFF FFF will reappear.

7. When all the sensors have been coded, pressing the BACK button twice will take you to the main screen.

Manual Coding (option #3)

**NOTE:** This method is mainly used to program sensor codes from an old display to a new display if you do not have the sensors available. This method is not recommended for programming a new system.

8. Push and hold the SET button until it beeps. The HI PRESSURE SET parameter will blink at the bottom of the screen. Push the + button and scroll through the parameters until SET ID appears.

9. Quickly push and release the SET button. The first tire on the display will blink. If programing a different tire, press the + button to move to the correct tire.

10. Push the SET button again and the first digit of FFF FFF will flash. Push the + or - button to select the correct number or letter. Push the GO button to move to the next digit. Repeat for all six digits.

11. Push SET once to save the new codes. The display will beep, and the code will stop flashing. Push the + button to move to the next tire position, if necessary.

12. To stop the sensor coding for any tire position, press BACK once. FFF FFF will reappear. No settings will be saved.

13. When all the sensors have been coded, pressing the BACK button twice will take you to the main screen.

Swap Tire Sensor Positions

**NOTE:** This procedure is used if tires are being rotated or if programmed in wrong position.

14. Press the SET button until the TPMS display beeps and then release it.

15. Press and release the + button until the tire swap icon, TIRE.swap, shows on the TPMS display.

16. Press the SET button to enter the tire swap mode.

17. Press the + button or the - button to select the tire sensor ID code (moved from position).

18. Press the SET button.

19. Press the + button or the - button to select the tire sensor ID code (moved to position).

20. Press the SET button to swap the tire sensor ID code positions.

21. Press the BACK button two times to return to the main screen.
Delete Sensor ID Codes from the TireView™ TPMS Display

Delete a Sensor ID Code
1. Press and hold the SET button until it beeps.
2. Make sure HI PRESSURE SET is blinking at the bottom of the TPMS display.
3. Press the + button and scroll/cycle until LEARN ID shows on the TPMS display.
4. Press and release the SET button. The first tire on the TPMS display will blink.
5. Press the + button or the - button to scroll/cycle to the desired tire sensor ID code.
6. Press the SET button. The tire sensor ID code will flash on the TPMS display.
7. Press and hold the BACK button.
8. Listen for the TPMS display to beep THREE times, then release the BACK button. The code will change to a flashing FFF FFF.
9. Press the SET button one time. The TPMS display will beep and the tire sensor ID code will be deleted.
10. Press the BACK button two times to return to the main screen.

Delete All Sensor ID Codes
1. Press and hold the SET button until it beeps.
2. Make sure HI PRESSURE SET is blinking at the bottom of the TPMS display.
3. Press the + button and scroll/cycle until LEARN ID shows on the TPMS display.
4. Press and release the SET button. The first tire on the TPMS display will blink.
5. Press the + button or the - button to scroll/cycle to any programmed tire sensor ID code.
6. Press the SET button. The tire sensor ID code will flash on the TPMS display.
7. Press and hold the BACK button.
8. Listen for THREE beeps followed by SIX beeps, then release the BACK button. DEL ALL will show on the TPMS display.
9. Press the SET button one time. The TPMS display will beep and all sensor ID codes will be deleted.
10. Press the BACK button two times to return to the main screen.
Repeater Installation

The TireView repeater will boost the signal from the sensors to the TireView unit.

⚠️ CAUTION

The repeater must be installed to help ensure proper operation of the TireView system. Failure to install the repeater could void warranty.

Repeater Mounting

1. The TireView repeater should be mounted on the tractor/truck or trailer in the recommended location. See Figure 5.

2. Secure the Repeater to the tractor/truck/trailer using wire ties. It is best to mount to the existing air line and wire harness bundle, if possible. See Figures 6 & 7.

3. Route the Repeater wire harness towards the power source along the existing wire harness.

Repeater Wiring

1. Make connections to the (+) and (-) wires from the repeater to the electrical harness.

Repeater Indicator Lights

1. When the Repeater receives power, the red light on the Repeater will illuminate (constant or blinking). No additional setup is needed for the repeater. See Figure 8.
Sensor Installation

Installing the Cap Sensor After Code Pairing

⚠️ **CAUTION: DO NOT OVER-TIGHTEN THE CAP SENSOR. DAMAGE CAN OCCUR.**

**NOTE:** The cap sensors will start to transmit data after they are paired to the TPMS display.

**NOTE:** The first time the display is turned on, it can take up to 20 minutes to receive all cap sensor data.

**For cap sensor installation on wheel**

1. Install the cap sensor onto the appropriate tire valve stem. Tighten the cap sensor until air stops leaking. Slightly twist the cap sensor to fully seat it.

**For cap sensor installation with ATIS** See Figure 9

1. If being installed in combination with ATIS, the CP hose is required.
2. Ensure CP hose is oriented correctly when attached to thru-tee.
3. Ensure valve cap is removed from the auxiliary port on the CP hose.
4. Install the cap sensor onto the appropriate CP hose auxiliary port.
5. Tighten the cap sensor until air stops leaking. Slightly twist the cap sensor to fully seat it.

**For cap sensor installation with Flow-thru Brackets**

1. Install the cap sensor onto the appropriate flow-thru bulkhead located inside the flow-thru bracket assembly. Go to TireView™ TPMS Flow-thru Bracket Assembly on page 23.
2. Tighten the cap sensor until air stops leaking. Slightly twist the cap sensor to fully seat it.

Install the Internal Sensor

⚠️ **CAUTION: DO NOT PLACE THE TIRE CHANGE SHOVEL ABOVE THE TIRE VALVE STEM. PLACE THE TIRE CHANGE SHOVEL 5.9 IN. (15 CM) AWAY FROM THE TIRE VALVE STEM. FOLLOW TIRE CHANGE SHOVEL MANUFACTURER’S INSTRUCTIONS.**

1. Remove the wheel from the vehicle and deflate the tire.
2. Use the tire change shovel to demount the tire from the wheel. See Figure 10.
3. Make sure the rubber pad has been installed on the sensor. See Figure 11.
4. Attach the sensor to the band clamp assembly with the accompanying hardware. Torque the screws to 10-12 in-lbs (1.1-1.4 Nm). See Figure 11.
5. Put the sensor and band clamp assembly in the center position of the wheel hub. See Figure 12.
6. Place the sensor 180° from the valve stem.

⚠️ **CAUTION: MAKE SURE THE BAND CLAMP ASSEMBLY IS COMPLETELY INSTALLED ON THE WHEEL HUB AND DOES NOT MOVE OR SWAY.**

7. Tighten the band clamp assembly on the wheel hub. See Figure 12.
8. Torque the band clamp screw to 30-45 in-lbs (3.4-5.1 Nm).
9. Cut off excess band if applicable.
10. Install the tire onto the wheel hub.
11. Inflate the tire to the manufacturer’s recommended pressure.
12. Use a balancing machine to balance the wheel with correction weights. An unbalanced wheel may experience excessive vibrations at high speeds.
13. Install the wheel on the vehicle per manufacturer’s instructions.
Figure 10: Tire Change Shovel - Correct Position

Figure 11: Internal Sensor Rubber Pad

Figure 12: Internal Sensor Installation

NOTE: TRIM EXCESS BAND LEAVING 3 INCHES

NOTE: VALVE STEM 180° FROM SENSOR
Setting the Sensor Alarms

**NOTE:** The TPMS display must be powered ON and showing the main screen.

**NOTE:** Pressure and temperature conversions are provided as a reference only.

**Table 1: TireView™ TPMS Display Factory Default Settings**

<table>
<thead>
<tr>
<th>Displayed Pressure Units</th>
<th>PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Pressure Alarm</td>
<td>175 PSI (12.1 BAR)</td>
</tr>
<tr>
<td>Low Pressure Alarm</td>
<td>100 PSI (6.9 BAR)</td>
</tr>
<tr>
<td>Displayed Temperature Units</td>
<td>°F</td>
</tr>
<tr>
<td>High Temperature Alarm</td>
<td>158 °F (70 °C)</td>
</tr>
</tbody>
</table>

**Setting the Displayed Pressure Units**

1. Press and hold the SET button until a beep is heard from the display.
2. Press the + button until SET shows at the bottom of the TPMS display. BAR/PSI will be blinking. 
   *See Figure 13.*
3. Press the SET button again.
4. Press the + button to select PSI or BAR.
5. Press the SET button again to save the selection.
6. Press the BACK button to return to the main screen.

**Setting the Low Pressure Alarm**

**NOTE:** If the tire pressure is below the default low pressure setting of 100 PSI (6.9 BAR), set the low pressure alarm setting the high pressure alarm. The high pressure alarm cannot be set below the low pressure alarm value.

1. Press and hold the SET button until a beep is heard from the display.
2. Press the + button until LO PRESSURE SET shows on the TPMS display. *See Figure 14.*
3. Press the SET button to enter that mode.

4. Press the GO button to scroll/cycle to a specific axle.

5. Press the + button or the - button to adjust the low pressure alarm to 10% below the normal tire pressure for that axle. See Figure 15.

6. Press the GO button to scroll/cycle to the next axle.

   **NOTE:** At the trailer section of the display, all the tires will flash. All the trailer axle low pressures can now be set as one group.

7. Do steps 3-6 again for the remaining axles.

8. Press the SET button to return to the mode menu.

9. Press the BACK button to return to the main screen.

### Setting the High Pressure Alarm

1. Press and hold the SET button until a beep is heard from the display. HI PRESSURE SET will show at the bottom of the screen. See Figure 16.

2. Press the SET button again to enter that mode.

3. Press the GO button to scroll/cycle to a specific axle.

   **NOTE:** Alarm adjustment to 20% over normal tire pressure is ideal for colder climates, and 25% over normal tire pressure is ideal for hotter climates.

4. Press the + button or the - button to adjust the high pressure alarm to 20-25% over the normal tire pressure for that axle. See Figure 17.
5. Press the GO button to scroll/cycle to the next axle.

**NOTE:** At the trailer section of the display, all the tires will flash. All the trailer axle high pressures can now be set as one group.

6. Do steps 2-5 for the remaining axles.

7. Press the SET button to save the settings and return to the mode menu.

8. Press the BACK button to go to the main screen.

### Setting the Displayed Temperature Units

1. Press and hold the SET button until a beep is heard from the display.

2. Press the + button until SET shows at the bottom of the TPMS display. °F/°C will be blinking. *See Figure 18.*

3. Press the SET button again.

4. Press the + button to select °F or °C.

5. Press the SET button again to save the selection.

6. Press the BACK to return to the main screen.

### Setting the High Temperature Alarm

**NOTE:** It is recommended that the default temperature setting of 158 °F (70 °C) be used for all types of tires.

1. Press and hold the SET button until a beep is heard from the display.

2. Press the + button until HI TEMP SET shows on the TPMS display. *See Figure 19.*
3. Press the SET button to enter that mode.
4. Press the + button or the - button to adjust the high temperature alarm. See Figure 20.

5. Press the SET button to save the alarm setting.
6. Press the BACK button to return to the main screen.

**Restore the TireView™ TPMS Display to Factory Settings**

**NOTE:** The display pressure units, temperature units, and alarm settings will be restored to the default factory settings. See *Table 1 on page 18*.

**NOTE:** Tire position sensor codes will not be erased or changed.

1. Move the TPMS display power slide-switch to the Off position.

**NOTE:** The power slide-switch will not turn the TPMS display off if it is plugged into a constant power source. Unplug the USB cable and the power slide-switch will function.

2. Hold the BACK and SET buttons at the same time and turn the TPMS display back on. The TPMS display will beep once and power back on.
TireView™ TPMS Display Alerts

Tire Pressure and Temperature Alerts

NOTE: The sensors send the tire pressure and temperature data to the display every five minutes, unless an alarm has been triggered.

1. If a tire is outside of the set high/low values, the TPMS display alarm will sound and the red LED warning light will immediately flash.
2. The tire position, pressure or temperature, and the warning type will also flash.
3. The audible alarm can be silenced for a short time by pressing any of the buttons on the front of the TPMS display.

The red LED warning light will continue to flash until the pressure or temperature issue is resolved and brought back within the preset values. See Figure 2 for location of the red LED warning light.

Fast Leak Alert

NOTE: When a fast tire air leak is detected, the sensor will send that data immediately to the TPMS display.

1. The TPMS display alarm will sound and the red LED warning light will immediately flash.
2. The tire position, pressure, and FAST LEAK will also flash.
3. The audible alarm can be silenced for a short time by pressing any of the buttons on the front of the TPMS display.
4. The red LED warning light will continue to flash until the pressure is resolved and brought back within the preset values. See Figure 2 for location of the red LED warning light.

Sensor Low Battery Alert

NOTE: The sensor low battery alert will display for only a short time until the internal battery is exhausted. If the TPMS display is not ON often, the sensor low battery signal may be missed. If the sensor is not reporting to the TPMS display, call P.S.I. to troubleshoot potential issues first in order to determine if the sensor must be replaced.

1. The sensor low battery indicator will show when the sensor battery is at the end of its life.
2. The affected tire position, pressure and temperature readout, low battery symbol (§) and tire warning icon (U) will flash on the TPMS display.

Connect / Disconnect A Tractor from the TPMS Display

NOTE: A tractor can be temporarily removed from the TPMS display.

To disconnect a tractor from the TPMS display:

1. Make sure the tractor is showing on the TPMS display.
2. Press the GO button and the + button at the same time. The sensor data on the trailer will not be read.

To connect a tractor to the TPMS display:

1. Press the GO button and the + button at the same time. The tractor section on the TPMS display will appear and the TPMS display will now read data from the sensors.

Connect / Disconnect A Trailer from the TPMS Display

NOTE: A trailer can be temporarily removed from the TPMS display.

To disconnect a trailer from the TPMS display:

1. Make sure the trailer is showing on the TPMS display.
2. Press the GO button and the - button at the same time. The sensor data on the trailer will not be read.

To connect a trailer to the TPMS display:

1. Press the GO button and the - button at the same time. The trailer section on the display will appear and the TPMS display will now read data from the sensors.
**TireView™ TPMS Flow-thru Bracket Assembly**

**NOTE:** Tractor and trailer flow-thru brackets have a slightly different appearance, but they are assembled in the same way. See Figure 21a-b, Figure 22a-b, and Figure 23a-b. Each type of flow-thru bracket is specifically designed for installation on either an N-spindle, P-spindle, or R-spindle axle configuration. See Figure 26 and Figure 27.

![Figure 21a: Flow-thru Bracket Kit - N-spindle Axle, Dual Tires](image1)

![Figure 21b: Flow-thru Bracket Kit - N-spindle Axle, Single Tire](image2)

![Figure 22a: Flow-thru Bracket Kit - P-spindle Axle, Dual Tires](image3)

![Figure 22b: Flow-thru Bracket Kit - P-spindle Axle, Single Tire](image4)

![Figure 23a: Flow-thru Bracket Kit - R-spindle Axle, Dual tires](image5)

![Figure 23b: Flow-thru Bracket Kit - R-spindle Axle, Single tire](image6)
1. If not already installed, install the flow-thru bulkhead fitting(s) onto the side(s) of the flow-thru bracket. Make sure the valve stem threaded end of the flow-thru bulkhead fittings are on the interior of the flow-thru bracket. See Figure 24.

2. Secure each flow-thru bulkhead fittings to the flow-thru bracket with a Nylock® half nut.

3. Torque the Nylock® half nuts in accordance with the standard torque table for brass threads.

4. Pair the inside tire cap sensor and outside tire cap sensor to the TPMS display. Refer to Automatic Code Learning (option #1) on page 12.

   **NOTE:** The first time the display is powered ON, it can take up to 20 minutes for the display to receive all sensor data.

   **NOTE:** The cap sensors will start to transmit data after they are paired to the display, but tire data is only transmitted to the display after each sensor receives air pressure.

5. Loosely install the inside tire cap sensor and the outside tire cap sensor onto the flow-thru bulkhead fitting valve stems. Make sure the cap sensors are installed in the correct position per the **INSIDE (I)** and **OUTSIDE (O)** labels on the flow-thru bracket. See Figure 21a-b, Figure 22a-b, and Figure 23a-b.

   **CAUTION:** DO NOT OVERTIGHTEN THE SENSOR CAPS. DAMAGE TO THE SENSOR CAP AND THREADS CAN OCCUR.

6. Hand-tighten the cap sensors until they bottom out, and then slightly twist the cap sensors to fully seat them.
TireView™ TPMS Flow-thru Bracket Installation

NOTE: Confirm that the tire valve stems are approximately 180° opposite of each other.

NOTE: Tractor and trailer flow-thru brackets have a slightly different appearance, but the installation is similar for each. The tractor (R-spindle) flow-thru bracket will require 2 Nylock® half nuts to mount to the axle cap studs. The trailer (N-spindle and P-spindle) flow-thru bracket installation is the same. The brackets will use four of the hub cap mounting bolts to secure to the wheel end. See Figure 21a-b, Figure 22a-b, and Figure 23a-b.

1. Position the flow-thru bracket assembly next to the axle cap and align the flow-thru bulkhead labeled OUTSIDE (O) with the valve stem of the outside tire. See Figure 25.

![Figure 25: Outside Flow-thru Bulkhead Alignment with Valve Stem](image)

2. For R-spindle configurations, mount flow-thru bracket assembly onto the axle cap studs. Install two Nylock® half nuts onto the flow-thru bracket assembly. Torque to 50-60 ft-lbs. See Figure 26.

![Figure 26: Tractor Flow-thru Bracket Installed - R-Spindles](image)
3. For N-spindle and P-spindle configurations, identify and remove hub cap bolts that will be used to attach the flow-thru bracket assembly. Reinstall bolts and washers onto the flow-thru bracket assembly and hub cap. Torque to 12-16 ft-lbs. See Figure 27.

![Figure 27: Trailer Flow-thru Bracket Installed - N-Spindles and P-Spindles](image)

**CAUTION: MAKE SURE THAT YOU DO NOT TWIST OR KINK THE CP HOSE DURING INSTALLATION.**

4. Connect the CP OUTSIDE hose onto the OUTSIDE tire valve stem and the CP INSIDE hose onto the INSIDE tire valve stem and hand tighten.

5. Add an additional 1/2 turn with a 7/16 in. wrench.

**CAUTION: DO NOT OVERTIGHTEN THE HOSE CONNECTION. THIS COULD DAMAGE THE HOSE SEAL AND CAUSE THE TIRE TO DEFLATE. DAMAGE TO COMPONENTS CAN OCCUR.**

**CAUTION: THE KNURLED ENDS ON THE CP HOSES ARE TO BE HAND-TIGHTENED ONLY. DO NOT USE TOOLS TO TIGHTEN. DAMAGE TO THE KNURLED ENDS CAN OCCUR.**

6. Connect and hand tighten the CP OUTSIDE hose knurled end onto the fitting marked OUTSIDE (O) on the flow-thru bracket.

   **NOTE:** Make sure the check port on the CP hose is facing outboard.

7. Connect and hand tighten the CP INSIDE hose knurled end onto the fitting marked INSIDE (I) on the flow-thru bracket.

   **NOTE:** Make sure the check port on the CP hose is facing outboard.

8. Check the wheel-ends to confirm that the system hoses do not contact the wheels. See Figure 28.

![Figure 28: Hose Contact with Wheel](image)

9. Check for air leaks at each connection point of the CP hoses, at the flow-thru bulkhead fittings, and at the cap sensors. If an air leak is found, then carefully hand-tighten the connection until the leak is sealed.

   **NOTE:** If air leaks cannot be sealed, check for debris on the threads or cross-threading. If additional assistance is needed, call P.S.I. Customer Support at 210.222.1926 (United States and Canada) or email techsupport@tireview.com.
## TireView™ TPMS System Troubleshooting

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data does not show on the display screen when the display is powered on.</td>
<td>Wait 15-20 minutes for the sensor data to appear on the TPMS display after the first time the system is setup. Leave the TPMS display on until all sensor data appears. After the sensor data is received the first time, subsequent system use should take less time to acquire the sensor information.</td>
</tr>
<tr>
<td>The display did not accept the sensor ID code during the pairing procedure.</td>
<td>When programming, immediately press and release the SET button to save the sensor code.</td>
</tr>
<tr>
<td>The high pressure alarm will not set.</td>
<td>If the tire pressure is under 100 PSI (6.9 BAR), you will have to program the low pressure alarm first and then program the high pressure alarm. The high pressure setting cannot go lower than the low pressure setting, which by default is set to 100 PSI (6.9 BAR).</td>
</tr>
<tr>
<td>Cannot read tire position data for more than a few seconds.</td>
<td>See TireView™ TPMS Display Normal Scrolling on page 7, to pause the automatic scrolling function.</td>
</tr>
<tr>
<td>Cannot power Off the TPMS display using the On/Off power slide-switch.</td>
<td>If the display is plugged into an optional constant power source, the power slide-switch on the side will not function. To power Off the TPMS display, unplug the USB power supply and the slide-switch will now operate.</td>
</tr>
<tr>
<td>A sensor is not sending data to the TPMS display.</td>
<td>Place a working sensor from another tire on the affected valve stem (the sensor will continue to collect data in its original tire position on the display). If the swapped sensor does not read normally, troubleshoot the valve stem. Check for a leaky valve core, debris in the valve stem, or damaged threads.</td>
</tr>
<tr>
<td>The TPMS display dropped sensor data for a tire position.</td>
<td>Unplug the display and use the USB power supply. Replace the sensor when the battery dies.</td>
</tr>
<tr>
<td>The TPMS display alarm sounds in the evening when the vehicle is not moving.</td>
<td>Lower outdoor temperatures at night decrease the tire pressure and may drop below the alarm threshold. Turn the display off overnight. As the air temperature rises the next day or driving starts, the tires will also warm up and return to normal parameters. Add air to the tires if needed.</td>
</tr>
<tr>
<td>The high pressure alarm will not set below 100 PSI (6.9 BAR).</td>
<td>The high pressure alarm cannot go lower than the low pressure alarm setting. If the tire pressure is below 100 PSI (6.9 BAR), first set the low pressure alarm settings and then set the high pressure alarm settings. See Setting the Sensor Alarms on page 18.</td>
</tr>
<tr>
<td>The TPMS display alarm was triggered and the tire position and its current pressure and temperature values are flashing.</td>
<td>There may be a high or low pressure reading from a tire position. Pressure changes can change over time from environmental conditions. Make sure the tire pressures are correct. Make sure the alarm values are set correctly. See Setting the Sensor Alarms on page 18.</td>
</tr>
<tr>
<td>The trailer is not being used, but is still showing on the TPMS display.</td>
<td>To remove a trailer from the display, see Connect / Disconnect A Trailer from the TPMS Display on page 22.</td>
</tr>
<tr>
<td>The tractor is not being used, but is still showing on the TPMS display.</td>
<td>To remove a tractor from the display, see Connect / Disconnect A Tractor from the TPMS Display on page 22.</td>
</tr>
<tr>
<td>The display still shows a tire position that is no longer in use.</td>
<td>To delete a single sensor code, see Delete a Sensor ID Code on page 14.</td>
</tr>
</tbody>
</table>