LIPPERT™

Tire Linc(!)

Tire Pressure & Temperature Monitoring System

Tire Linc™ LCD Display

Installation and Owner's Manual
(For Aftermarket Applications)

Tire Linc LCD Display Aftermarket Kit	
Part #	**Description**
2020114605	Tire pressure, temperature monitoring system

Table of Contents

Introduction

Tire Linc® is a tire pressure and temperature monitoring system (TPMS). The TPMS display issues an alert when a unit's pressure or temperature falls out of the programmable range.

The system is operated by a handheld display, and a power cord and stand are included with the kit.

NOTE: If utilizing the LCD handheld display with the repeater, then neither the OneControl app nor the Tire Linc Alert Indicator can be used with the repeater.

Additional information about this product can be obtained from lci1.com/support or by using the LippertNOW app.

The LippertNOW app is available for free on Apple App Store® for iPhone® and iPad® and also on Google Play™ for Android™ users.

App Store® and iPad® are registered trademarks of Apple Inc.

Google Play™ and Android™ are trademarks of Google Inc.

Safety

Read and fully understand all instructions before installing or operating this product.

Adhere to all safety labels. This manual provides general instructions. Many variables can change the circumstances of the instructions, e.g., the degree of difficulty, operation and ability of the individual performing the instructions. This manual cannot begin to plot out instructions for every possibility, but provides the general instructions, as necessary, for effectively interfacing with the device, product or system. Failure to correctly follow the provided instructions may result in death, serious personal injury, severe product and/or property damage, including voiding of the LCI limited warranty.

⚠ WARNING

THE "WARNING" SYMBOL ABOVE IS A SIGN THAT A PROCEDURE HAS A SAFETY RISK INVOLVED AND MAY CAUSE DEATH, SERIOUS PERSONAL INJURY, SEVERE PRODUCT AND/OR PROPERTY DAMAGE IF NOT PERFORMED SAFELY AND WITHIN THE PARAMETERS SET FORTH IN THIS MANUAL.

⚠ WARNING

FAILURE TO FOLLOW INSTRUCTIONS PROVIDED IN THIS MANUAL MAY RESULT IN DEATH, SERIOUS PERSONAL INJURY AND/OR SEVERE PRODUCT AND PROPERTY DAMAGE, INCLUDING VOIDING OF THE COMPONENT WARRANTY.

⚠ CAUTION

THE "CAUTION" SYMBOL ABOVE IS A SIGN THAT AN INSTALLATION PROCEDURE HAS A SAFETY RISK INVOLVED AND MAY CAUSE PERSONAL INJURY AND/OR PRODUCT OR PROPERTY DAMAGE IF NOT PERFORMED SAFELY AND WITHIN THE PARAMETERS SET FORTH IN THIS MANUAL.

⚠ CAUTION

MOVING PARTS CAN PINCH, CRUSH OR CUT. KEEP CLEAR AND USE CAUTION.

Parts List

Kit PN 2020114605			
Letter	PN	Description	Qty
A	2020222360	LCD handheld display stand	1
B	2020222357	LCD handheld display	1
C	2020222358	LCD display power cord	1

NOTE: Part numbers are shown for identification purposes only. Not all parts are available for individual sale. All parts with a link to the Lippert Store can be purchased.

Installation

To install the LCD handheld display stand:

1. Make sure to have a clean, level, nonporous surface for the stand's suction base to adhere to.

2. Lift the locking lever located at the bass of the mounting arm.

3. Set the stand's suction base over the clean area then press down on the locking lever to mount the LCD handheld display stand in-place.

If desired, the LCD handheld display can be mounted to the display stand by pressing the mounting pocket on the back of the handheld display onto the mounting bulb of the stand.

Message To Power Off Displays

Whenever a user accesses one of two modes in the Settings menu — Learn All Sensors or Learn A Sensor — a screen will appear on the display for five seconds (**Fig.1**) before automatically transitioning to the notifications received before sensor learning takes place. This screen will also appear after the user selects whether a spare tire is to be added or not.

POWER OFF ALL OTHER DISPLAYS CONNECTED TO THE REPEATER BEFORE LEARNING SENSORS.

Fig.1

Pairing, Configuration

NOTE: Pair Mode is usually not necessary for the display to pair to the repeater. Pair Mode is needed only when attempting to pair the display to the repeater and more than one repeater is located nearby. When the repeater is in Pair Mode, the BLE (Bluetooth Low Energy) name TireLinc changes to TireLinc*.

Place Repeater Into Pair Mode

1. If Pair Mode is needed, press and hold the Pair Mode button on the repeater (**Fig.2B**) until there is one long red blink followed by two short red blinks. This takes approximately five seconds.

2. Release the button.

Fig.2

Sensor Pairing

3. Turn on LCD display using On/Off button on bottom of the display (**Fig.3**).

4. Tap the Scan for New Bluetooth Devices arrow (**Fig.4**) and look for the TireLinc listing.

NOTE: If the repeater is in Pair Mode, look for TireLinc*.

5. Select the first listing (**Fig.5**) and tap CONTINUE.

Fig.3

micro USB port for charging — On/Off button — sync button — reset
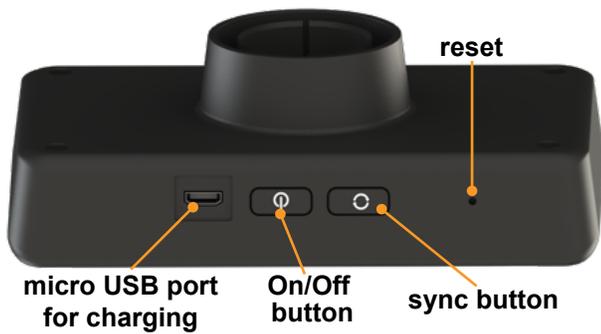
Fig.4

Fig.5

6. Tap SETUP COACH (**Fig.6**).
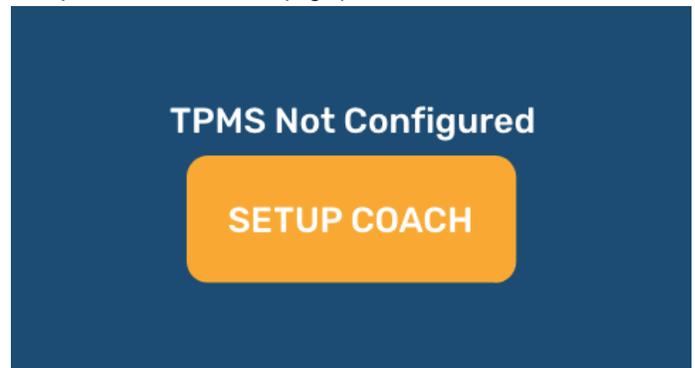
Fig.6

7. Select a vehicle class (**Fig.7**) and tap CONTINUE.

Fig.7
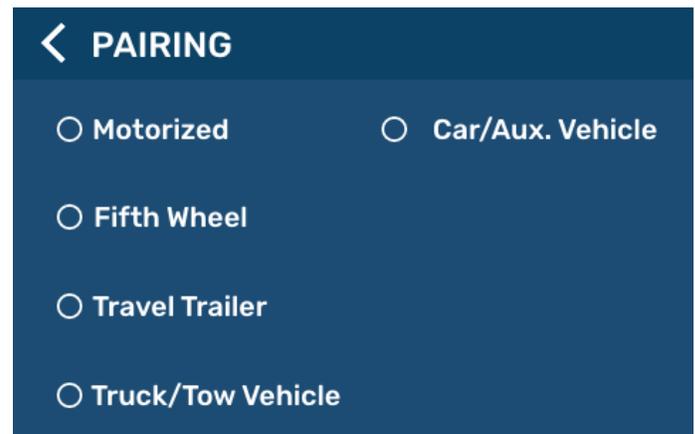
8. Select the type of vehicle to be set up by choosing one of the pictures shown on the display **(Fig.8)** and tap CONTINUE.
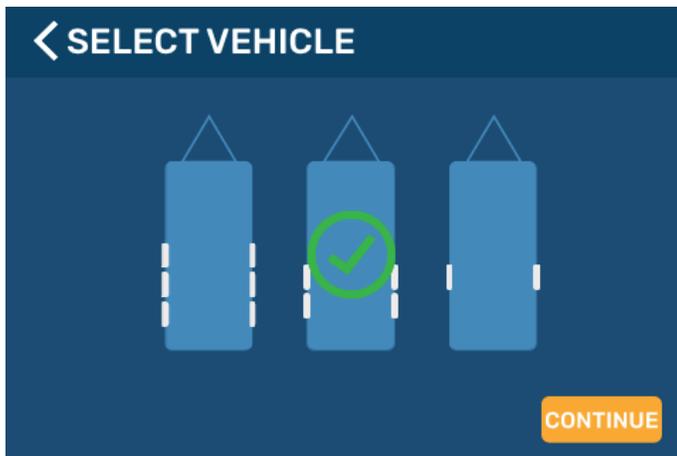
Fig.8

9. Determine if a spare tire will be added **(Fig.9)**. Tapping YES will add the spare tire icon to the vehicle selected.
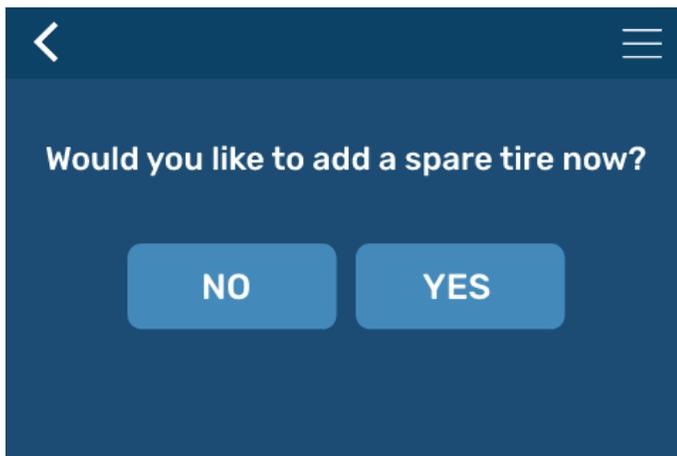
Fig.9

10. After tapping YES or NO for a spare tire, the display will automatically change to the **LEARN ALL SENSORS** mode.

11. A notification will appear on the display for 5 seconds **(Fig.10)** instructing you to turn off all other displays connected to your repeater before automatically transitioning to the notifications received before sensor learning takes place.
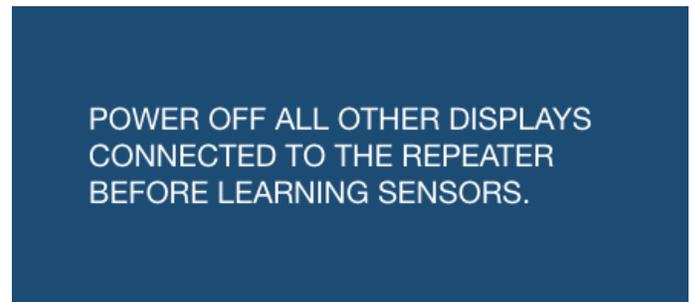
Fig.10

12. Notifications will instruct how to learn internal and external sensors.

13. Continue to the Learn All Sensors section and use the steps for learning sensors.

Sensor Pairing Sequence
The pairing sequence for tires begins with the left front tire **(Fig.11-1)** first, continuing from front to rear and then beginning again at the right front **(Fig.11-5)** and continuing to the rear tires **(Fig.11-4 and 8)**. The spare tire **(Fig.11-9)** is last.

With dual wheels on a vehicle, the outside tire **(Fig.11-2 and 6)** on either side is paired first before the inside tire **(Fig.11-3 and 7)**.

Figure 11 provides an example of the pairing sequence for tires on any vehicle.
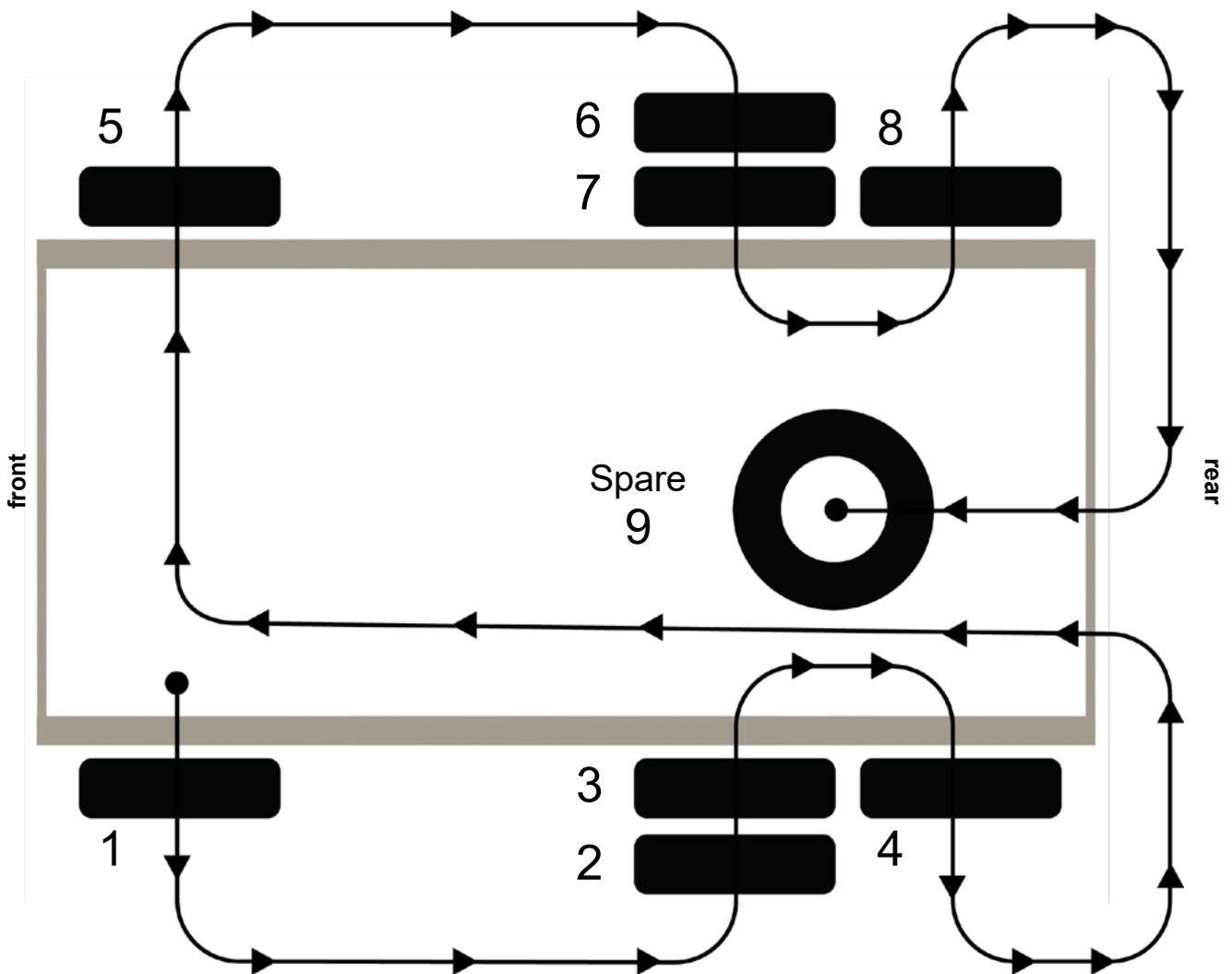
Fig.11

Learn All Sensors

1. Before accessing the **SETTINGS** menu, check to make sure the vehicle on which a sensor is to be learned is present on the main tire pressure screen.

2. Tap the arrow to the right of Learn A Sensor **(Fig.12A)**

3. After entering the **LEARN ALL SENSORS** mode, hold the LCD display close to the sidewall in the area opposite the valve stem of the tire to be paired **(Fig.13)**.

4. Press and hold the sync button on the LCD display **(Fig.3)** to pair the sensor until the display beeps and the red flashing circle turns green.
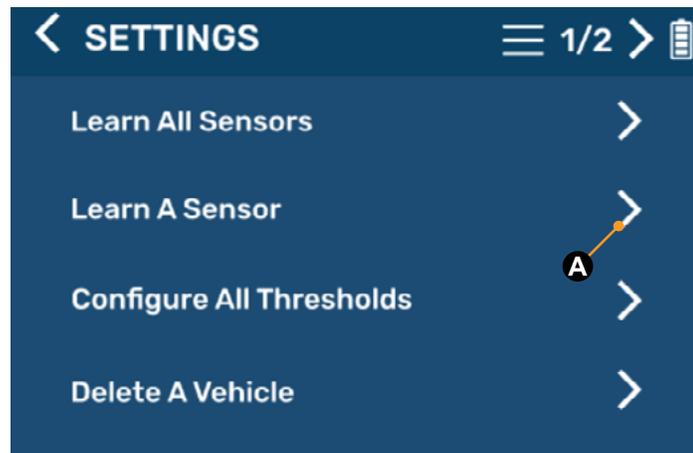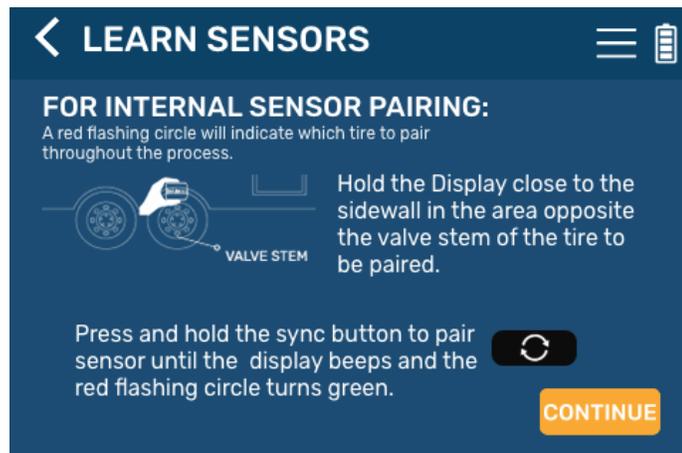
5. If you are using external stem sensors:

  A. Screw the sensor onto the valve stem until securely fastened.

  B. Watch the display until the flashing circle turns green.

NOTE: This may take up to 90 seconds.

  C. If the sensor does not show as learned within 90 seconds, unscrew the sensor for 10 seconds then screw it back onto the valve stem to reattempt learning the sensor.

6. The display will feature a red dot **(Fig.14A)** representing the tire that is being paired, which will then turn green when it is successfully paired **(Fig.15A)**.
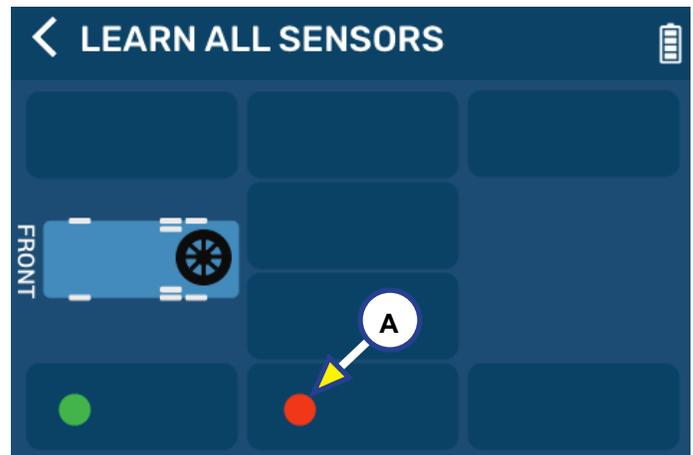
Fig.12
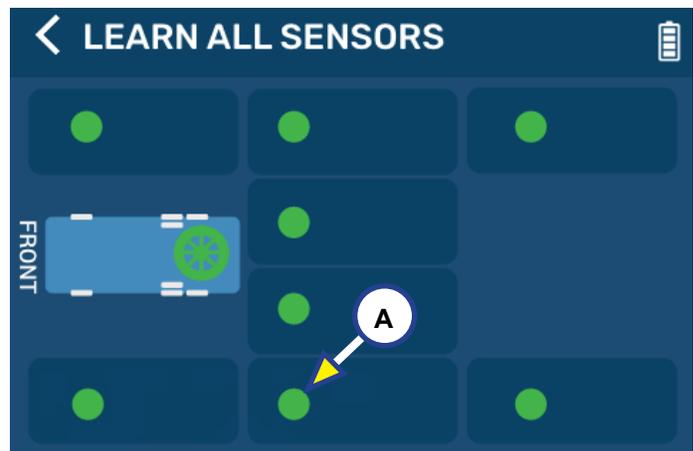
Fig.13

Fig.14

Fig.15

7. When pairing has been completed, the display will ask if another vehicle is to be added to the system **(Fig.16)**. If tapping YES, pair the additional sensors in the proper sequence. If not, continue to Configure All Thresholds.

NOTE: There are limits of three vehicles and 20 tires.
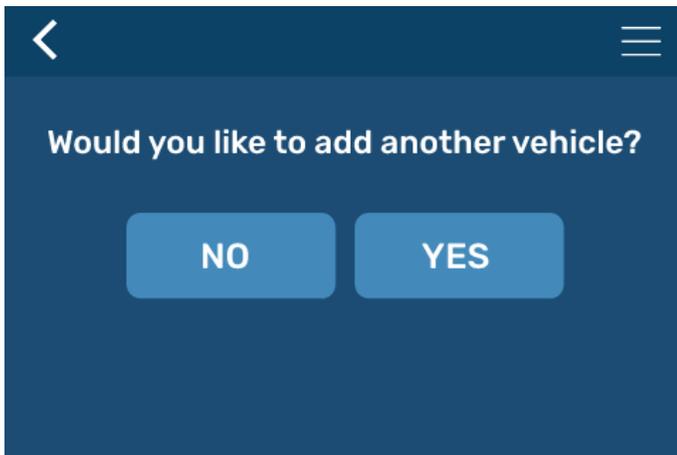
Fig.16

Configure All Thresholds

1. Before accessing the **SETTINGS** menu, check to make sure the vehicle selected to have thresholds configured is present on the main tire pressure screen.

2. Select the Configure All Thresholds arrow on the **SETTINGS** screen **(Fig.17A)**.
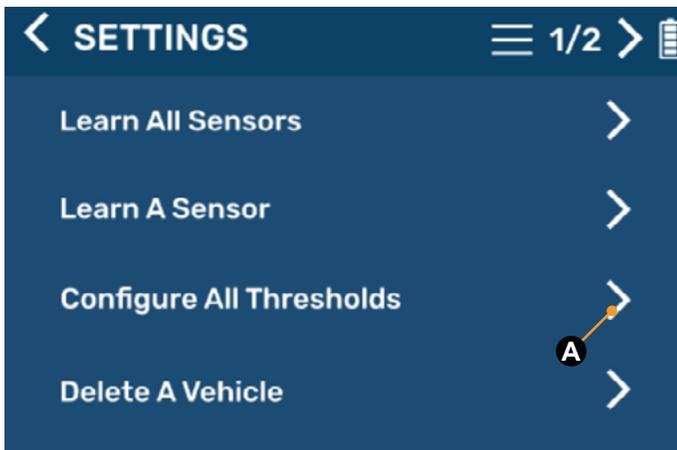
Fig.17

3. Set the Minimum Pressure, Maximum Pressure, Maximum Temperature and Maximum Temp Change for the sensors **(Fig.18)**. After each selection, tap FINISH.
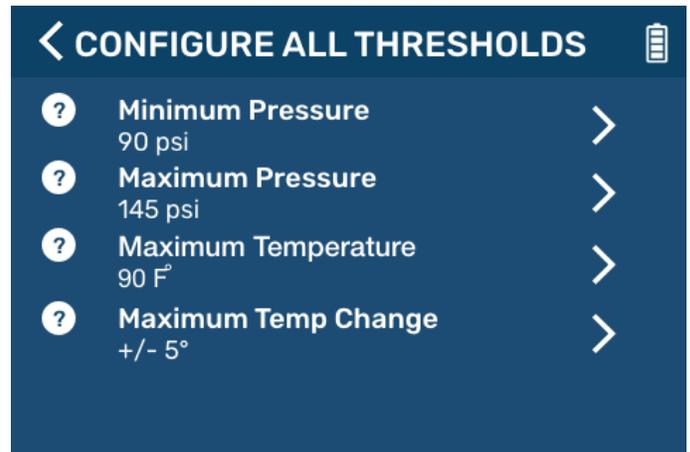
Fig.18

Learn A Sensor

1. Before accessing the **SETTINGS** menu, check to make sure the vehicle on which a sensor is to be learned is present on the main tire pressure screen.

2. Tap the arrow to the right of Learn A Sensor **(Fig.19A)**.
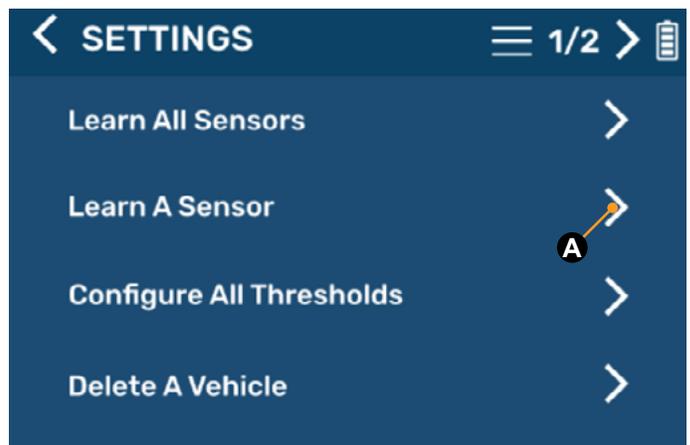
Fig.19

3. A notification will appear on the display for 5 seconds **(Fig.20)** instructing you to turn off all other displays connected to your repeater before automatically transitioning to the notifications received before sensor learning takes place.
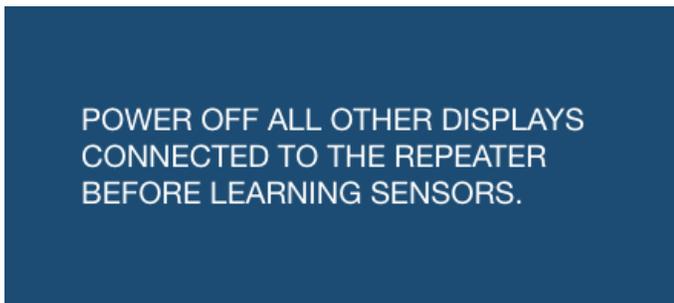
Fig.20

4. The vehicle will at first appear without a red blinking dot. Select the tire with a sensor to be learned **(Fig.21A)** and observe a red blinking dot on that tire **(Fig.22A)**.

NOTE: The procedure for learning a sensor is the same as relearning sensors.
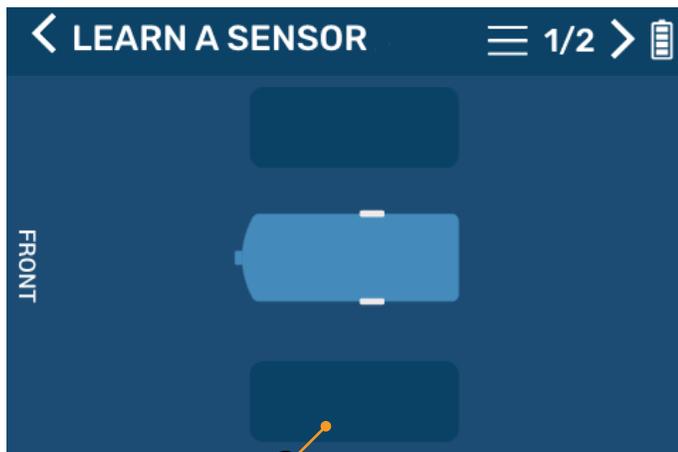
Fig.21

5. Hold the LCD display close to the sidewall in the area opposite the valve stem of the tire to be paired **(Fig.23)**.

6. Press and hold the sync button on the LCD display **(Fig.3)** to pair the sensor until the display beeps and the red flashing circle turns green.
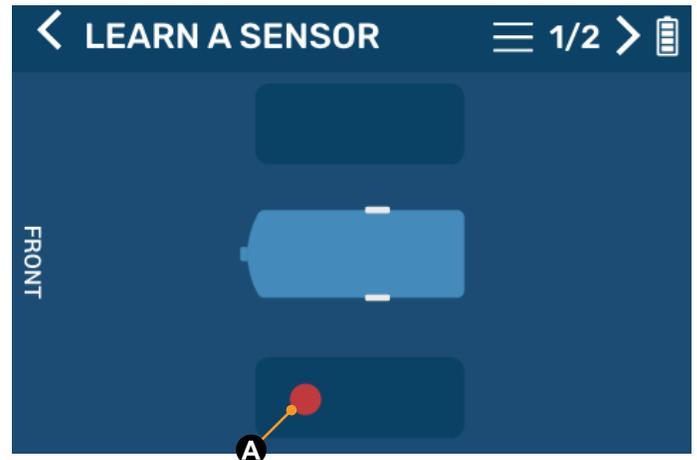
Fig.22
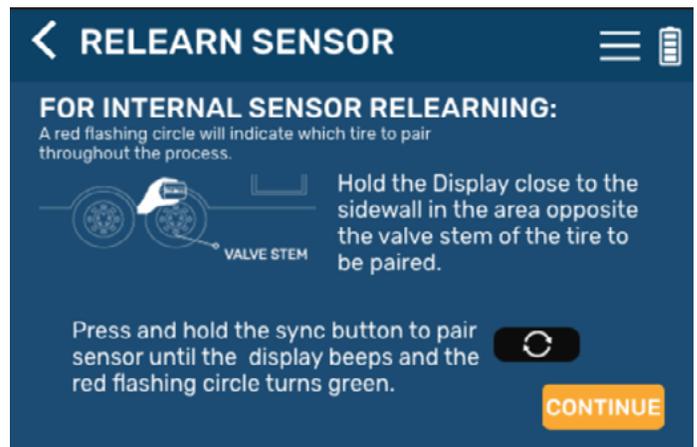
Fig.23

7. If you are using external stem sensors:

   A. Screw the sensor onto the valve stem until securely fastened.

   B. Watch the display until the flashing circle turns green.

NOTE: This may take up to 90 seconds.

   C. If the sensor does not show as learned within 90 seconds, unscrew the sensor for 10 seconds then screw it back onto the valve stem to reattempt learning the sensor.

8. The display will feature a red dot representing the tire that is being paired, which will then turn green when it is successfully paired.

Detach vehicles

1. Scroll down the **SETTINGS** screen and tap the arrow to the right of Detach Vehicles **(Fig.24A)**.

2. Select which vehicle to detach **(Fig.25)**.

3. Confirm which vehicle to detach and tap CONTINUE **(Fig.26)**.

4. Select another vehicle to detach or tap FINISH **(Fig.27)** to return to the main tire pressure screen.

NOTE: The red X on a vehicle indicates the vehicle is detached **(Fig.27)**.

NOTE: The display will not detach a vehicle if it is the only vehicle in the configuration.
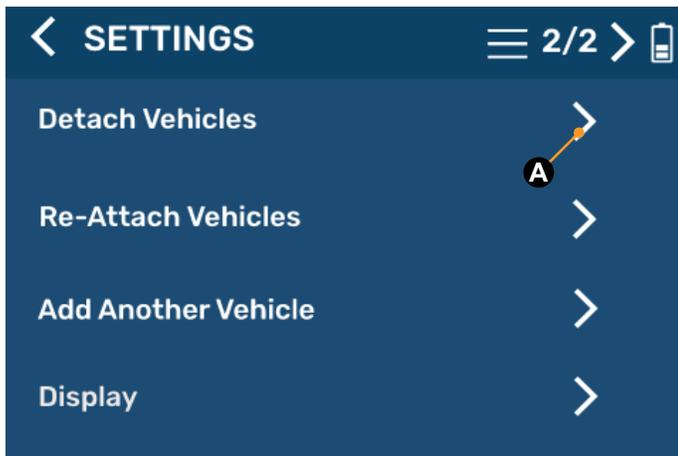
Fig.24
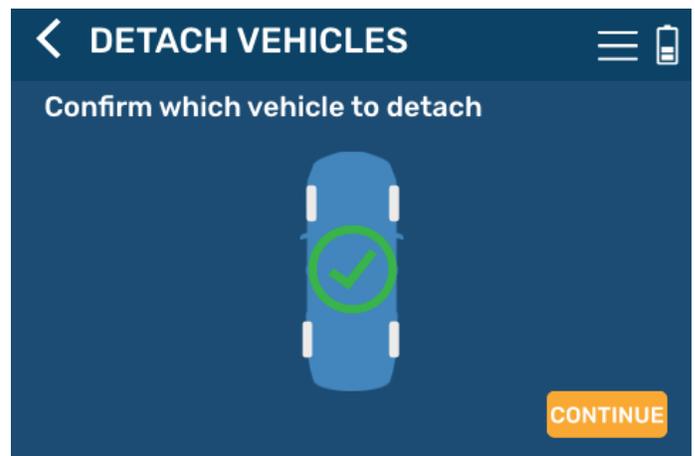
Fig.26
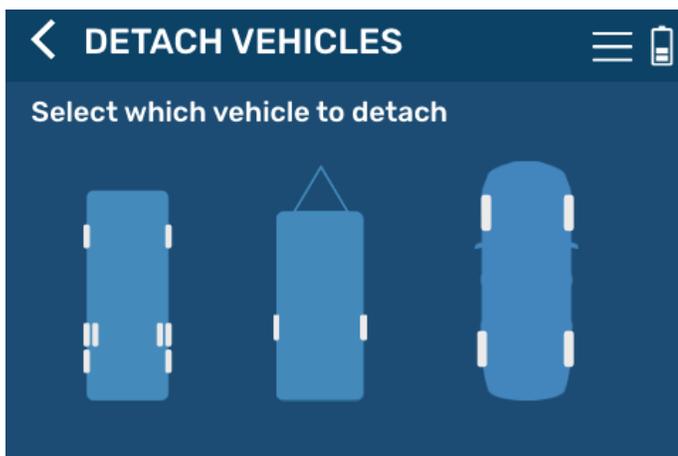
Fig.25
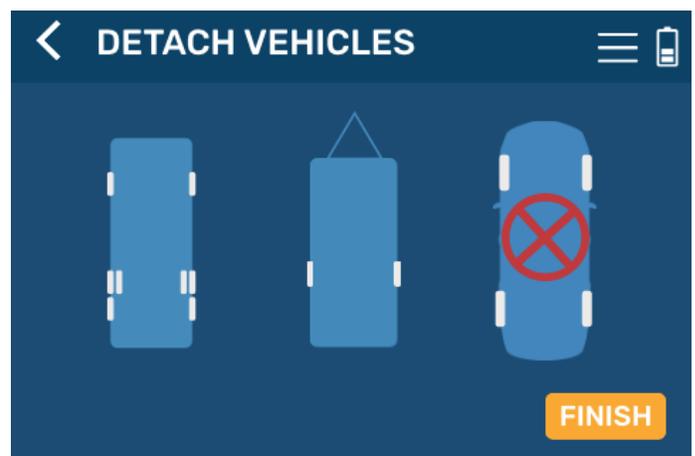
Fig.27

Reattach vehicles

1. Scroll down the **SETTINGS** screen and tap arrow to right of Re-Attach Vehicles **(Fig.28A)**.

2. Select which vehicle to reattach **(Fig.29)**.

NOTE: The red X on a vehicle indicates the vehicle is detached **(Fig.29)**.

3. Confirm which vehicle to reattach and tap CONTINUE **(Fig.30)**.

4. Select another vehicle to reattach **(Fig.31)** or tap FINISH to return to the main tire pressure screen.
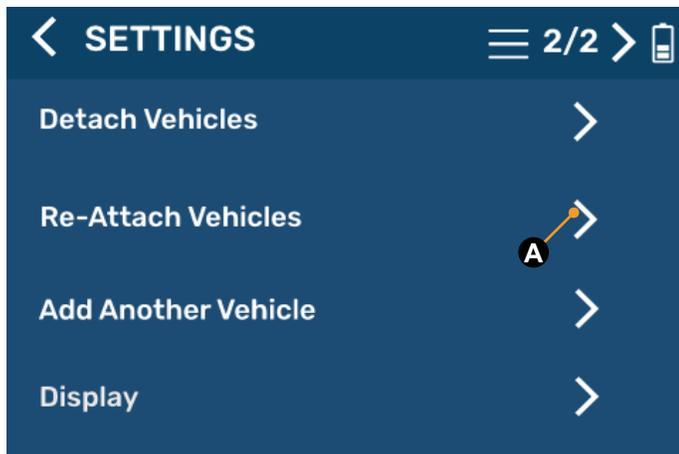
Fig.28

Fig.30
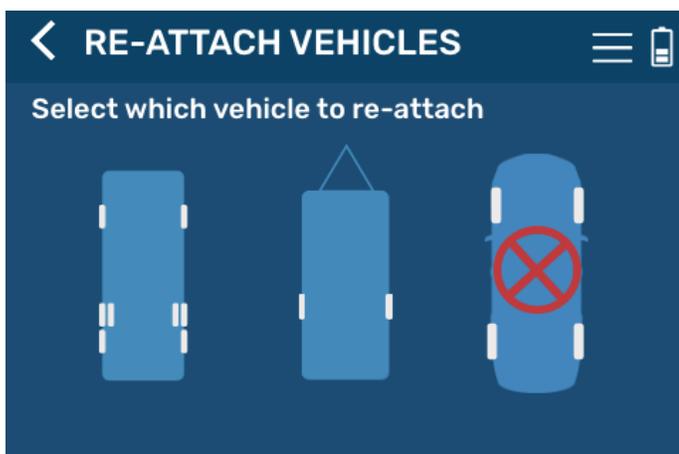
Fig.29
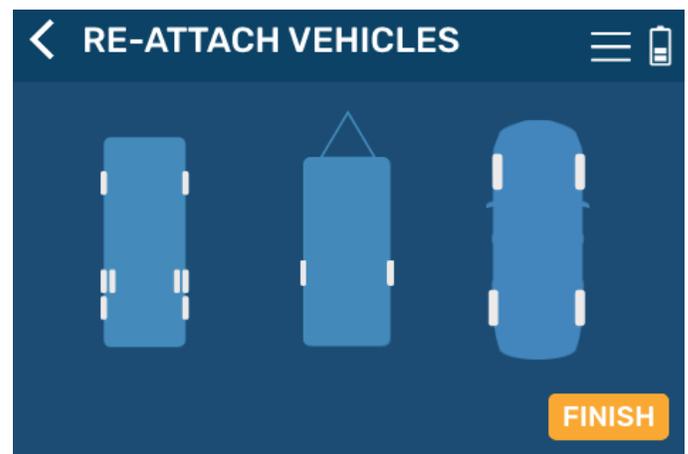
Fig.31

Delete A Vehicle

1. Tap the Delete A Vehicle entry in the **SETTINGS** screen (**Fig.32A**).

2. Select a vehicle to delete (**Fig.33**) and tap NEXT.

3. Confirm which vehicle to delete (**Fig.34**) and tap DELETE.

4. Select another vehicle to delete or tap FINISH (**Fig.35**) to return to the main tire pressure screen.

NOTE: The display will not delete a vehicle if it is the only vehicle in the configuration.
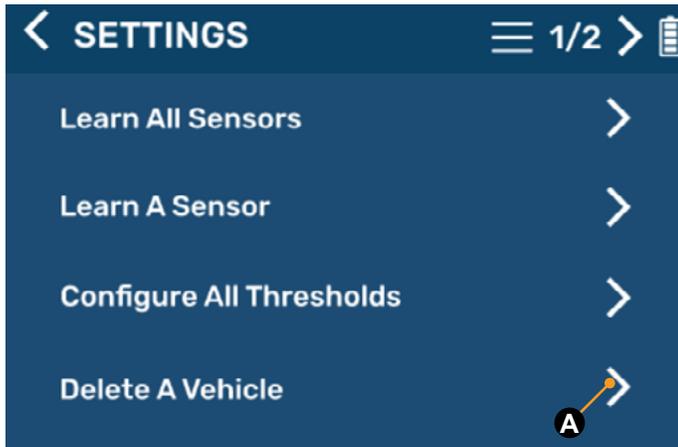
Fig.32
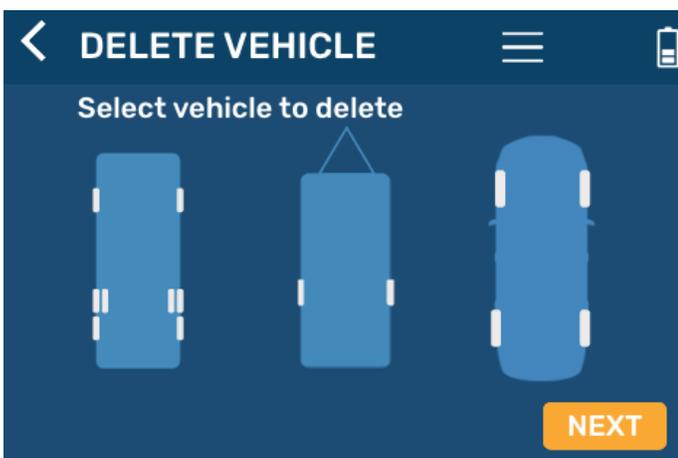
Fig.33
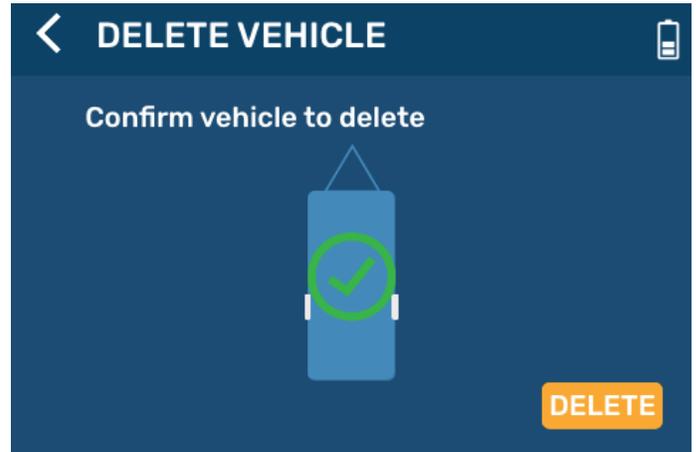
Fig.34
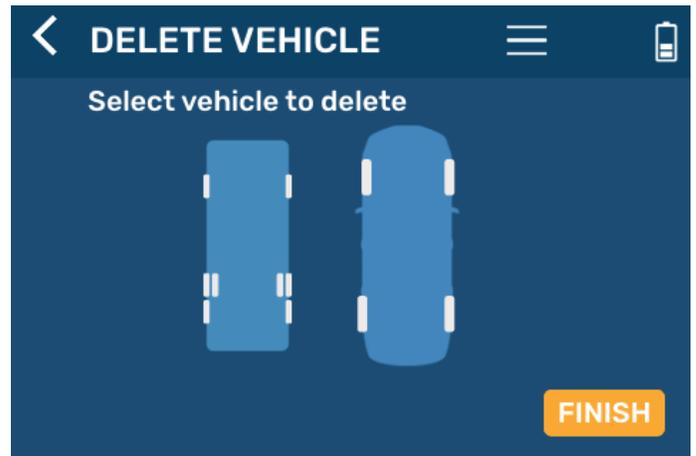
Fig.35

Add Another Vehicle

1. Select Add Another Vehicle on the **SETTINGS** screen (**Fig.36A**).

2. Select a class of vehicle (**Fig.37**) and the type of vehicle to be set up by choosing one of the pictures shown on the display (**Fig.38**).

3. Determine if a spare tire will be added. Tapping YES (**Fig.39**) will add the spare tire icon to the vehicle selected.

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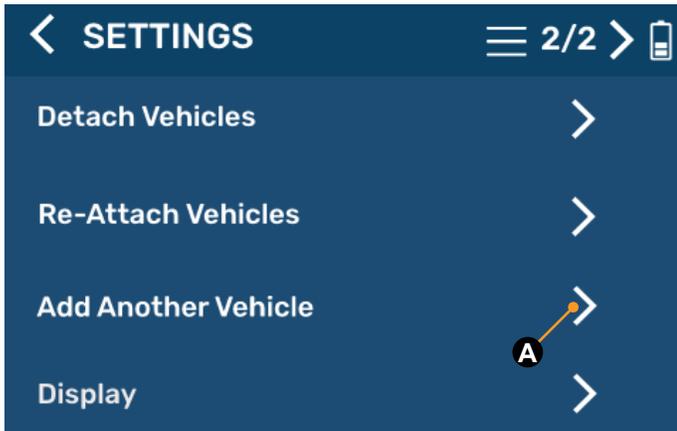
Fig.36
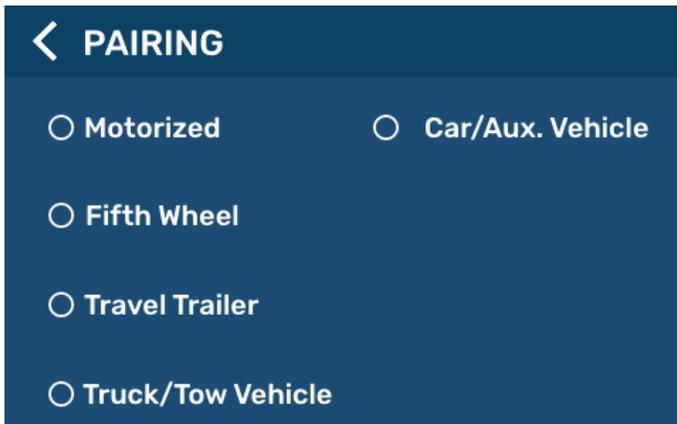
Fig.37
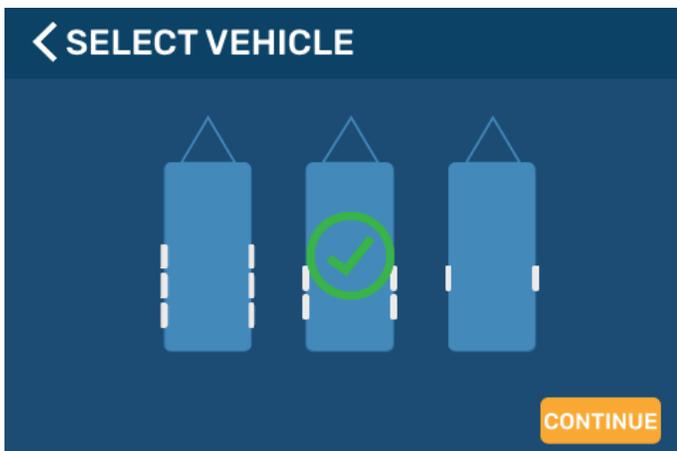
Fig.38
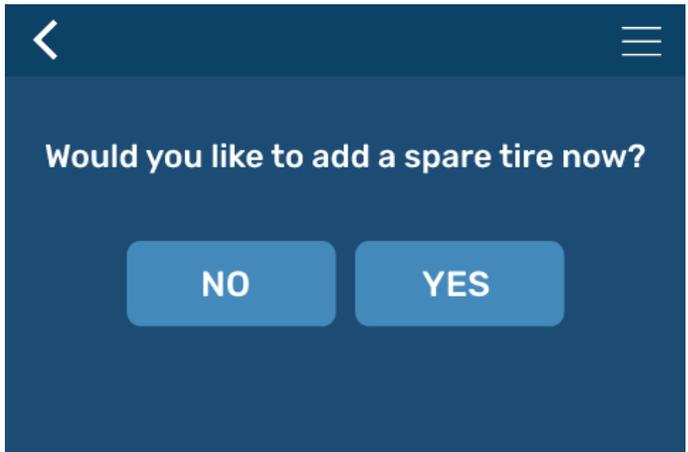
Fig.39

4. A notification will appear on the display for 5 seconds **(Fig.40)** instructing you to turn off all other displays connected to your repeater before automatically transitioning to the notifications received before sensor learning takes place.

POWER OFF ALL OTHER DISPLAYS CONNECTED TO THE REPEATER BEFORE LEARNING SENSORS.
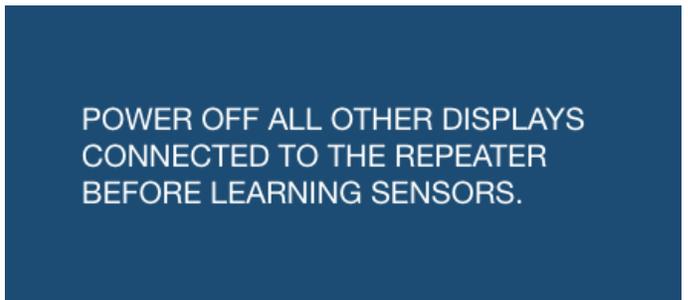
Fig.40

5. Notifications will instruct how to learn internal and external sensors.

6. Continue to the Learn All Sensors section.

Replace Sensor

1. Tap a tire location **(Fig.41)** to launch its properties window with sensor details **(Fig.42)**.

2. Tap arrow to the right of Replace Sensor **(Fig.42A)**.

3. Tap CONTINUE for all notifications.

4. The vehicle will appear on the screen with a red blinking dot next to the sensor chosen to relearn.

5. Follow the instructions for the variant of the sensor being learned in the **RELEARN SENSOR** screen **(Fig.43)**.

Fig.41
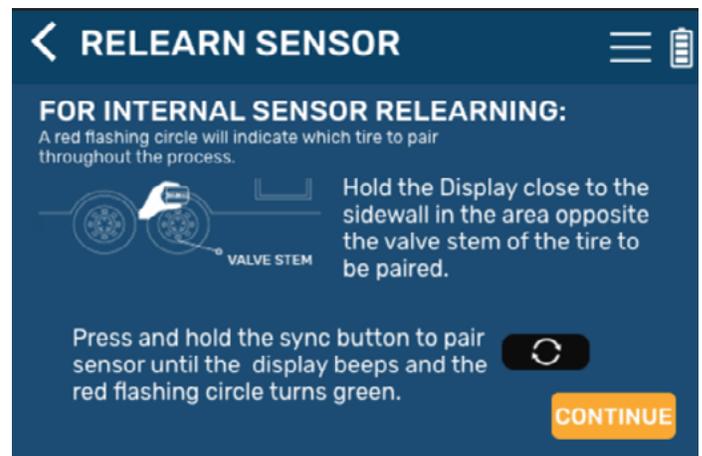
Fig.43
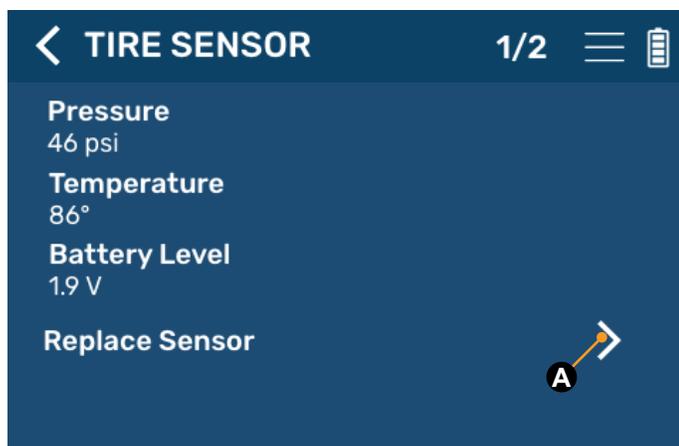
Fig.42

Display

1. Scroll down the **SETTINGS** screen and tap the arrow to the right of Display **(Fig.44A)**.

2. Select preferred entries on the **DISPLAY** screen, including whether the system will always be on or will go to sleep and if U.S. or metric terms are used **(Fig.45)**.

3. Tap the back arrow **(Fig.45A)** to return to the **SETTINGS** screen.
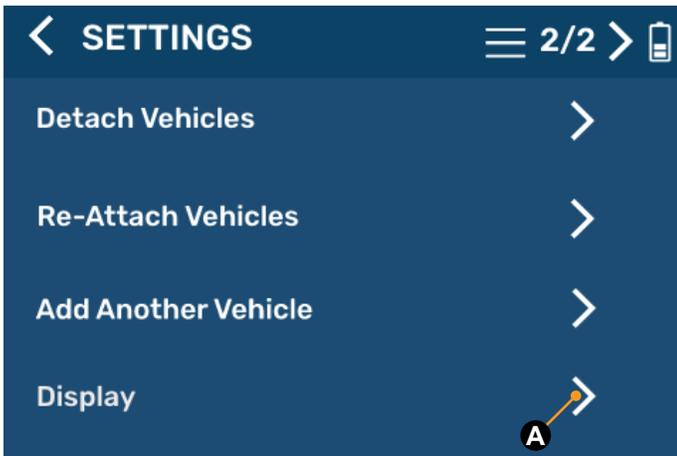
Fig.44

Fig.45

Operation

When Sensors are under pressure, data is transmitted to the repeater when tires are:

• moving/rotating, every one minute;

• not moving/not rotating, every 15 minutes.

1. Tap a tire location **(Fig.46)** to launch its properties window **(Figs.47 and 48)**. Within the selected tire's properties window, various tire and sensor specifications can be observed and altered.

A. Pressure — posts the currently-sensed pressure of the selected tire.

B. Temperature — posts the currently-sensed temperature of the selected tire.

C. Battery Level — posts the current battery voltage of the sensor's battery.

Fig.46

⚠ CAUTION

TIRES THAT HAVE HIGH OR LOW AIR PRESSURE CAN CAUSE UNFORESEEN DETRIMENTAL EFFECTS ON TIRES AND THE UNIT, INCLUDING UNDESIRABLE TREAD WEAR. TIRES SHOULD ALWAYS BE PRESSURIZED TO WITHIN THE MANUFACTURER'S RECOMMENDATIONS.

NOTE: The individual tire thresholds listed below can only be accessed by entering the SETTINGS menu while in the individual tire menu.

D. Minimum/Maximum Pressure — posts the currently-programmed minimum and maximum pressure limit for the selected tire.

E. Maximum Temperature — posts the currently-programmed maximum temperature limit for the selected tire.

F. Maximum Temp Change — posts the currently-programmed maximum +/- temperature change limit for the selected tire.

2. When a fault is active, the display will beep and the text box that displays the temperature and pressure for the tire experiencing the fault will turn red **(Fig.49)**.

NOTE: The text for the spare tire with a fault will not turn red — only the spare tire icon will turn red **(Fig.49)**.

Fig.48
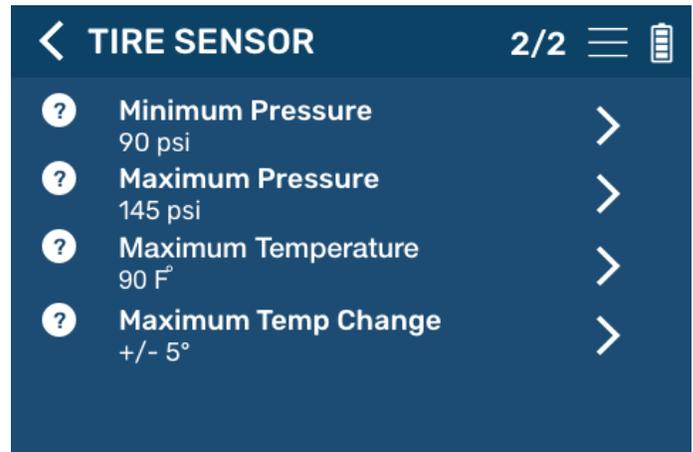
Fig.49

Fig.47

Tire Limits Example

When a specific tire information button is tapped, the tire's programmable settings become available. Find the desired setting, select it, then tap the "back" arrow (<) located above the tire's setting name.

The following example illustrates the interaction between the various tire settings and how the resulting information is relayed by the monitoring system for display.

1. Select a tire by tapping its information button to launch its settings window.

  A. In this example, the reported current TIRE PRESSURE is listed as 16 psi (11 kPa).

NOTE: Stem Sensor Pressure Reading Tolerance: +/-1.5 psi (+/-10.3 kPa). For example—because of differences in accuracy and conversion between a Stem Sensor and a tire gauge—actual tire pressure at 38 psi (262 kPa) may be reported by the Stem Sensor as 36 psi (248.2 kPa) while the tire gauge may report 40 psi (275.8 kPa).

  B. Compare the tire's low/high pressure range against the reported tire pressure (16 psi). Always make sure tire pressures are within recommended limits.

2. If the Maximum Pressure requires adjusting, tap the next arrow to launch its settings window **(Fig.49)**. Scroll through the window until the current setting is found, then scroll to a new limit and select it.

3. If the Minimum Pressure requires adjusting, tap the next arrow to launch its settings window **(Fig.49)**. Scroll through the window until the current setting is found, then scroll to a desired limit and select it.

NOTE: The Maximum Temperature and the Maximum Temp Change **(Fig.49)** can also be adjusted in similar fashion.

NOTE: Stem Sensor Temperature Reading Tolerance: +/-5.4 °F (+/-3 °C). For example, if a Stem Sensor reports tire temperature at 85 °F (29 °C), actual tire temperature may be 90.4–79.6 °F (32–26 °C).

NOTE: Stem Sensor Working Range: 185 to -4 °F (85 to -20 °C).

Changing Units of Measure

To change the units of measure—to/from Imperial/Metric—go to the **SETTINGS** screen:

1. Tap the Display button's next arrow **(Fig.44A)**.

2. From the **DISPLAY** screen **(Fig.45)**, select the desired unit of measure; US or Metric.

NOTE: Displayed units of measure will change to match the newly selected units.

3. Tap the back arrow above the screen title **(Fig.45A)** to return to the **SETTINGS** screen.

Troubleshooting

Relearn Sensors After Tire Rotation

If a tire rotation is performed on the vehicle, the user can relearn the sensors by utilizing the Learn All Sensors mode.

Internal Sensors

When the battery voltage begins to approach 1.9V on a tire sensor, it is time to schedule a service appointment to replace the sensor for that tire. If the battery is dead, the sensor assembly must be replaced. The battery life is estimated to be three years.

NOTE: Use of tire sealant will cause damage to the internal sensor and may impact sensor readings.

Wrong Vehicle Chosen

In the event a wrong vehicle type is chosen, delete the incorrect vehicle from the Delete A Vehicle option in the **SETTINGS** menu. See Delete A Vehicle section. Choose Add Another Vehicle to add a corrected vehicle. See Add A Vehicle section.

Missing Stem Sensor

If a stem sensor becomes detached from the valve stem, or an issue has occurred to where the repeater does not receive data from a sensor for an extended period of time, the repeater will flag the sensor as missing and the tire's readout button will display a "loss of communication" symbol (**Fig.50A**).

Reattach the sensor, remove any metal obstructions directly in front of the repeater or replace the sensor with a new one to resolve the issue.
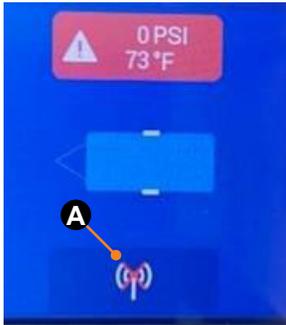
Fig.50

No Power

If system is not working, check the in-line fuse to the repeater dock to ensure the dock has power.

Reset LCD Handheld Display

1. Bend the end of a paper clip or use a similar tool that will fit into the reset hole in the LCD display (**Fig.51**).

2. Insert the tool then press and hold for two seconds to reset the display.

reset

Fig.51

Notes

Notes

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