



Tire Linc[®] AU

Tyre Pressure & Temperature Monitoring System 2.0

Installation and Owner's Manual

(For Aftermarket Applications)

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Tire Linc AU Aftermarket Kits	
PN	Description
2020130644	Tire Linc [®] AU 4-stem sensor kit with repeater dock
2020130643	Tire Linc [®] AU 4-stem sensor kit without repeater dock
2020130630	Tire Linc [®] AU 2-stem sensor kit with repeater dock
2020130627	Tire Linc [®] AU 2-stem sensor kit without repeater dock
2020130645	Tire Linc [®] AU stem sensor 1-pack kit

Introduction

Tire Linc[®] is a tyre pressure and temperature monitoring system (TPMS). The TPMS issues an alert via the OneControl BT[®] app when a caravan's tyre(s) pressure or temperature falls out of the programmable range.

Key System Components

- Sensors - Stem mount, 1295 kPa (188 psi) maximum pressure reading, -50 to 205 °C (-58 to 401 °F) temperature measurement range—Stem Sensor Working Range: 85 to -20 °C (185 to -4 °F).
- Repeater - Receives sensor data, communicates with phone app via Bluetooth Low Energy (BLE).
- Repeater Dock - Provides power to repeater, which "docks" to this base.
- OneControl BT App - Displays real-time tyre pressures, temperatures and visual alerts for faults.

NOTE: Images used in this document are for reference only when assembling, installing and/or operating this product. Actual appearance of provided and/or purchased parts and assemblies may differ.



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

App Store® for iPhone® and iPad® and also on Google Play™ for Android™ users.

App Store®, iPhone®, 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 AN INSTALLATION PROCEDURE HAS A SAFETY RISK AND MAY CAUSE DEATH OR SERIOUS PERSONAL INJURY, SEVERE PRODUCT AND/OR PROPERTY DAMAGE IF NOT PERFORMED SAFELY AND WITHIN PARAMETERS SET FORTH IN THIS MANUAL.

⚠ CAUTION

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

Parts List



Letter	PN	Description
A	808485	TPMS Repeater
B	806880	Repeater Dock
C	808506	Stem Sensor
D	2020002102	Stem Sensor Tool (Separates into two parts)
E	2020003005	Lock Nut Wrench (Optional use)
F	2020001333	Lock Nut and O-Ring Kit (Optional use)
G	2020001329	O-Ring (Part of F)
H	2020001330	Lock Nut (Part of F)

NOTE: Part numbers are shown for identification purposes only. Not all parts are available for individual sale.



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Resources Required

- OneControl BT® app
- Cordless or electric drill or screw gun
- Appropriate drive bits
- Two M4 self-tapping pan head screws
- Wire strippers
- Appropriate electrical connectors

Repeater Dock Installation

Install Tire Linc on a non-prepped caravan as follows:

NOTE: Non-prepped caravans do not have a repeater dock installed; prepped caravans do. If a repeater dock is installed, go to Installation and Setup section.

1. Locate a mounting area inside the caravan that allows connection of the Tire Linc repeater dock (Fig.1A) to the unit's 12V power source before the battery disconnect/constant power source without creating a strain on the completed connection.

NOTE: Connecting Tire Linc to a power source past the disconnect will turn off the Tire Linc system if the power source is turned off during transport.

NOTE: The Tire Linc repeater dock **MUST** be mounted vertically.

NOTE: Film covering the repeater posts **MUST** remain in-place until the repeater is installed.

2. Repeater dock mounting **MUST** be located in the closest compartment to the tow vehicle, e.g., the front compartment, that is free of any metal or obstructions that could interfere with the signal and hinder reception.

3. Vertically orient the repeater dock and secure it to the wall with two (non-supplied) M4 self-tapping pan head screws (Fig.1B).

4. Make sure power to the caravan is off, then connect the repeater dock's red power wire (Fig.1C) and black ground wire (Fig.1D) to system power and ground as follows:

A. If necessary, use wire strippers to expose enough bare wire to make a good connection.

B. Use appropriate electrical connectors to create good connections.

C. Make sure there is a 15A maximum circuit protection placed in-line between the power supply and the repeater dock.



Fig.1



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Installation and Setup

1. Locate and remove film cover from repeater dock (Fig.2A).

NOTE: The film cover should only be removed when ready to install the repeater.

2. Snap the repeater (Fig.2B) into the repeater dock (Fig.2C).

NOTE: The repeater dock is keyed and the repeater can only be snapped in one way.



Fig.2

3. The repeater will power on, lighting up the Status LED (Fig.2D), blinking to indicate the repeater has power.

4. If the Status LED does not light up, check the in-line fuse to the dock to ensure the dock has power.

5. Use the small tip of a tool or tip of a pen and push and hold for five seconds, then release the Pair Mode button (Fig.2E). The Status LED will turn on solid for one second, then blink twice to indicate it's in pairing mode.

Connect OneControl BT App to Repeater

1. Download the LCI OneControl BT app for either an iOS or Android smart phone.

2. After the LCI OneControl BT app has been downloaded, tap the OneControl BT icon (Fig.3A) to launch the app.

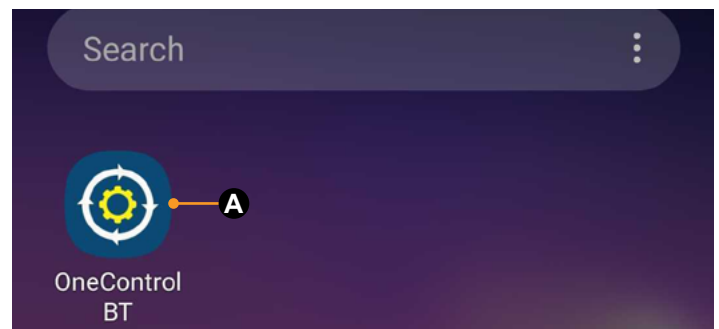


Fig.3

3. Read and accept the License Agreement (Fig.4). Tap I Accept button to continue.

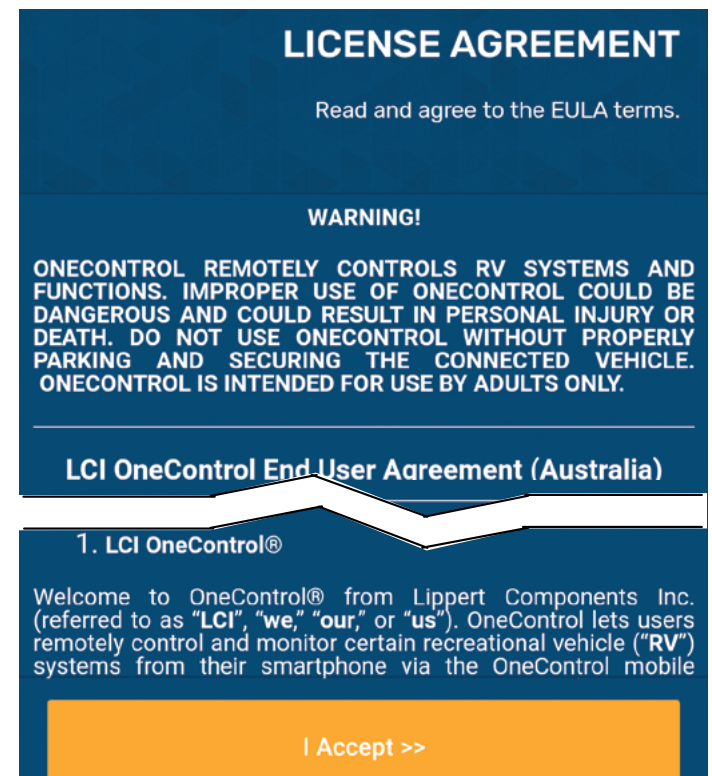


Fig.4



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4. OneControl BT requires location permission to find and connect to available networks (Fig.5). Tap Continue button to proceed with setup.

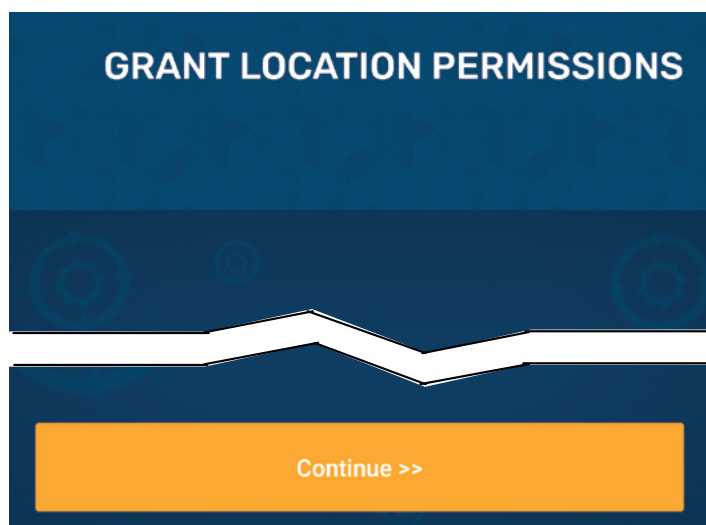


Fig.5

5. Allow OneControl BT access to the device's location (Fig.6). Make a selection to move forward with setup. Tapping the Deny button will stop the process.

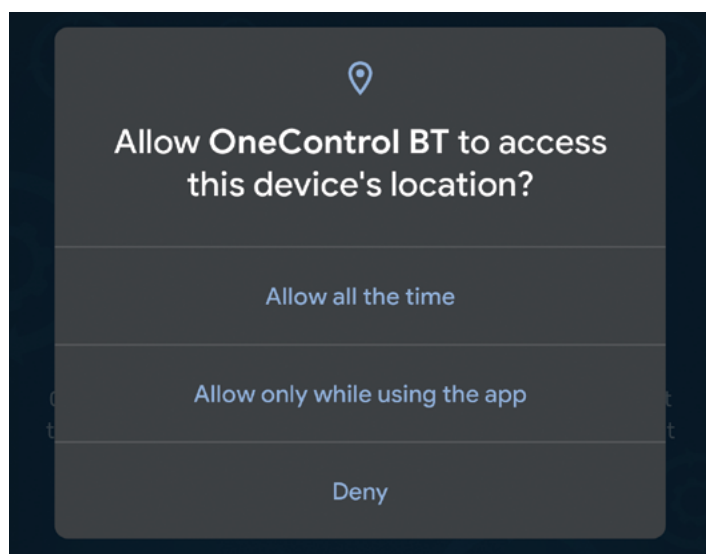


Fig.6

6. Look for Tire Linc and press the listing. If more than one Tire Linc option appears in the list, select the one with the strongest RSSI value. The RSSI value shown in figure 7 (-37dB) is displayed at the end of the listing. For example, to determine a stronger RSSI value:

A. -60 is greater than -70; select -60 because it is the stronger number.

B. 20 is greater than 10; select 20 because it is the stronger number.

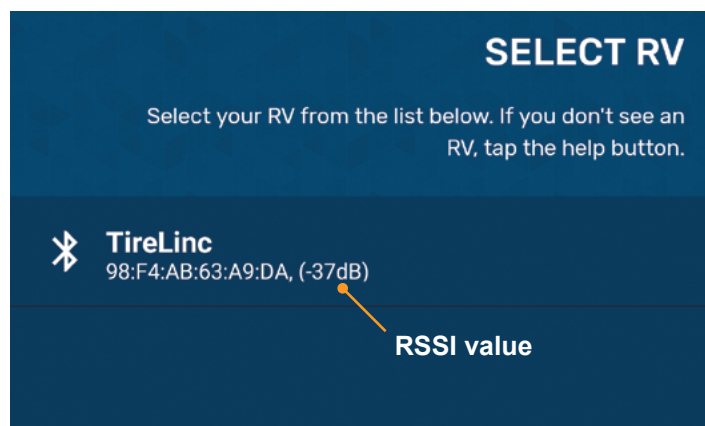


Fig.7

7. When the screen indicates the RV has successfully connected (Fig.8), tap the Continue button to proceed with setup.

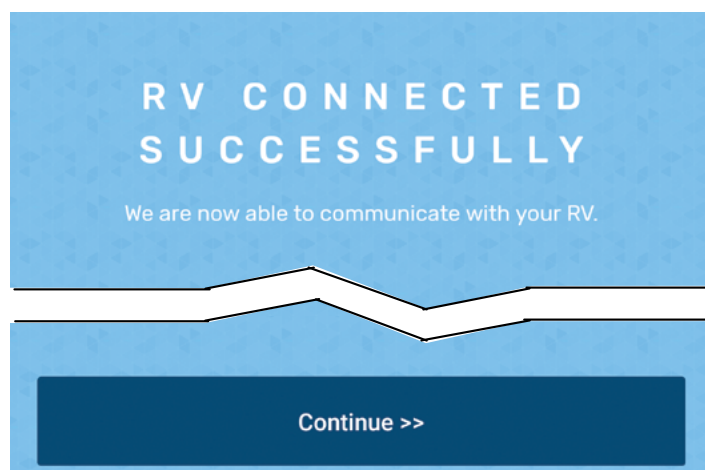


Fig.8



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8. Tap the SETUP COACH button (Fig.9A) to continue.

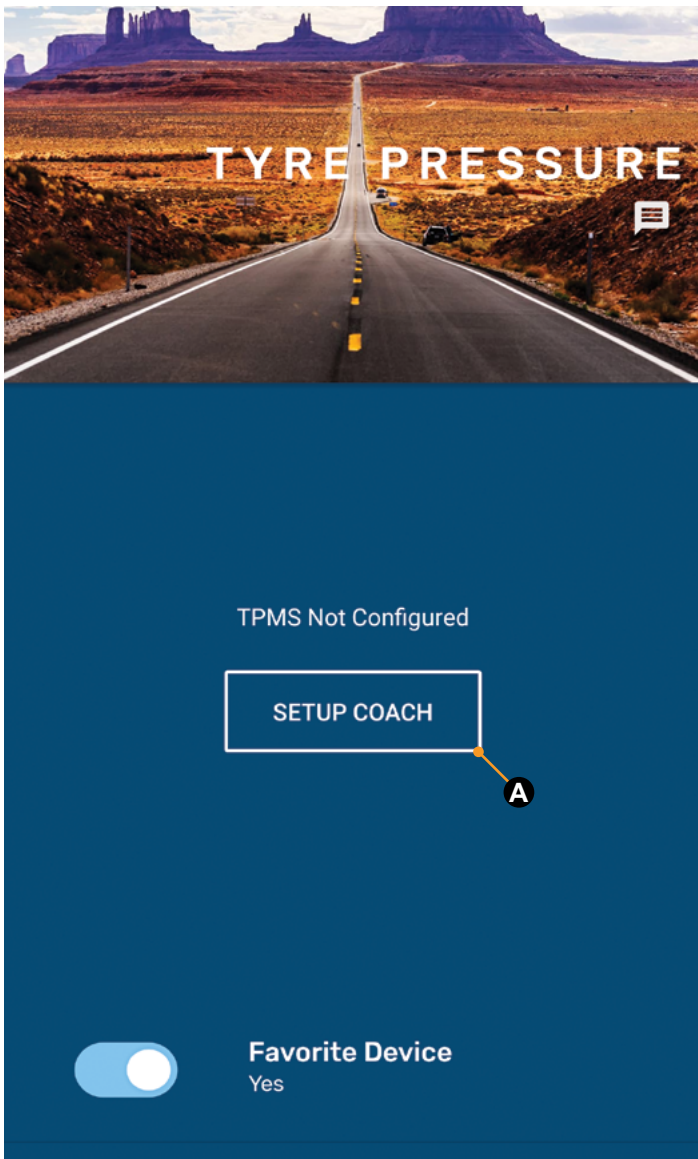


Fig.9

9. Select a vehicle class (Fig.10) then tap CONTINUE.

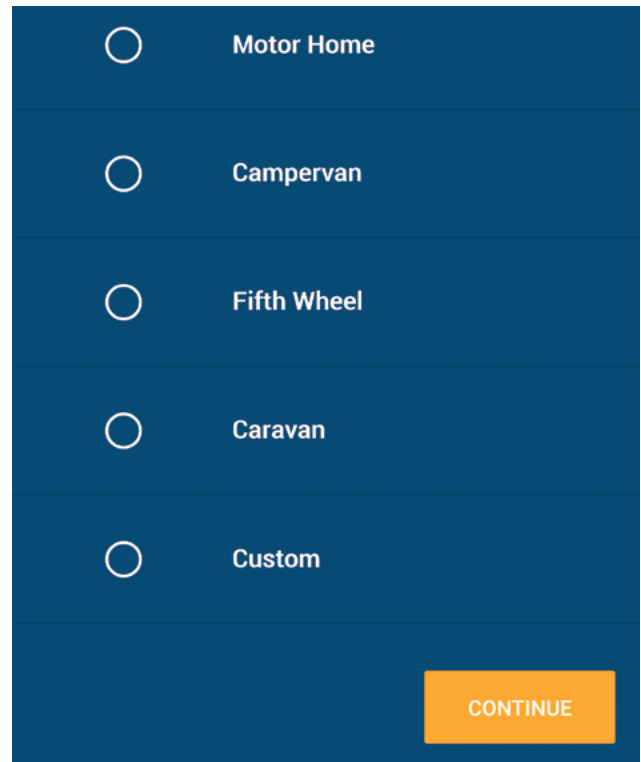


Fig.10

10. Select a vehicle layout (Fig.11) then tap FINISH.

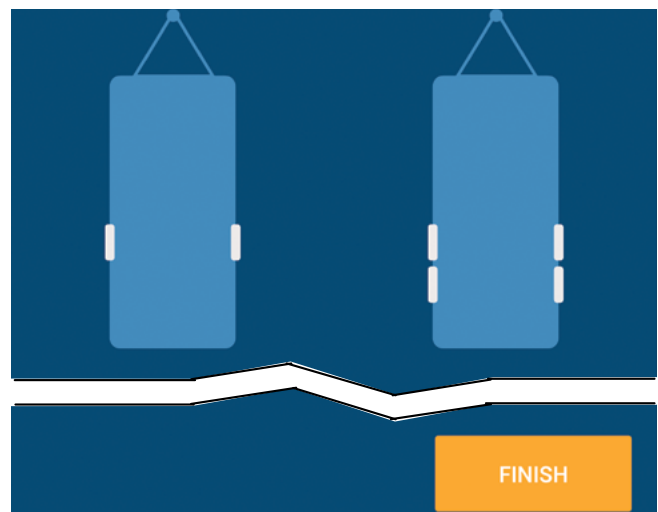


Fig.11

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11. Finish setup by tapping the arrow to the right of Learn Sensors (Fig.12A).

NOTE: Users must scroll down the screen in order to view the Learn Sensors option at the bottom of the page.

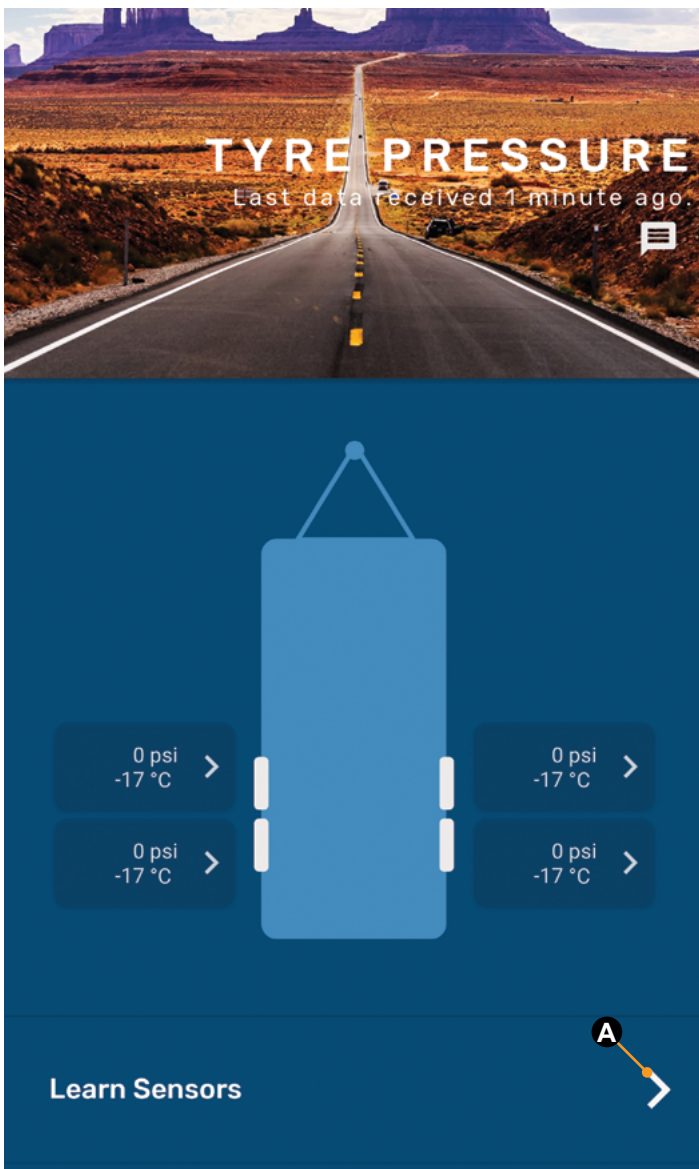


Fig.12

Stem Sensor Pairing Sequence

The pairing sequence for stem sensors (Fig.13) is as follows:

1. SINGLE AXLE: Stem sensors for a single-axle caravan **MUST** be paired in the following order: Left front (Fig.14A), right front (Fig.14C).
2. DOUBLE AXLE: Stem sensors for a double-axle caravan **MUST** be paired in the following order: Left front (Fig.14A), left rear (Fig.14B), right front (Fig.14C), right rear (Fig.14D).



Fig.13

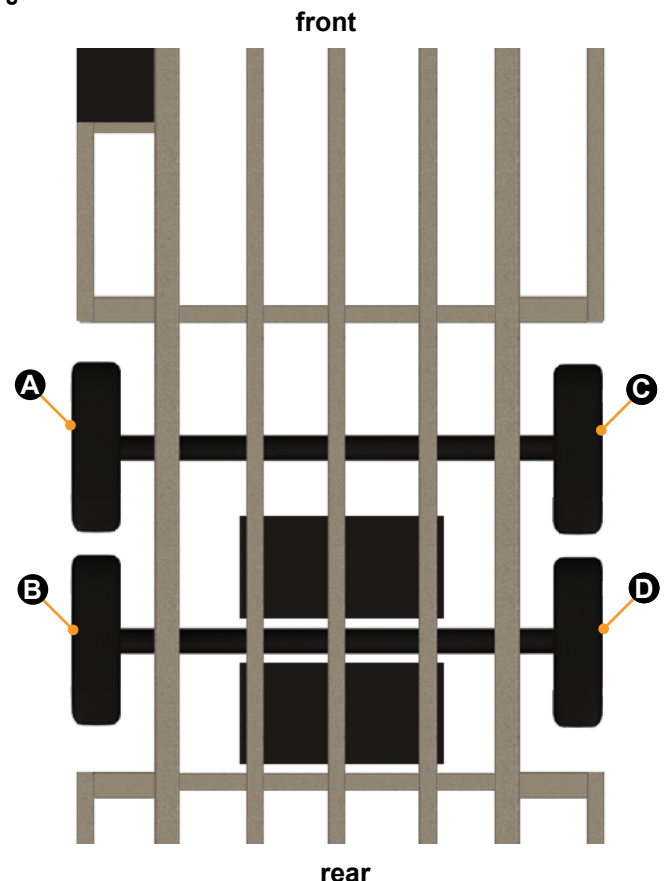


Fig.14



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Use Smart Phone to Pair Sensors to Repeater

NOTE: If a wrong caravan type is chosen or there is a new caravan configuration, see Troubleshooting section for factory reset.

The OneControl BT app on the smart phone will indicate in specific order which tyre the stem sensor cap should be installed: Front Left, Rear Left, Front Right, Rear Right, etc.

1. Have stem sensors (Fig.13) available to install on the tyre stems and remove any existing stem caps from the tyres.

NOTE: If using the lock nuts as a theft deterrent, add the lock nuts to the tyre stems but make sure there is room to add the sensors. Lock nuts will be tightened later. The lock nuts are optional and are not required to be installed.

2. Pair stem sensors to the repeater as follows:

A. Select the Learn Sensors arrow (Fig.15A) in the TYRE



Fig.15

PRESSURE app screen if not having done so already. The app will display a list of tyres with instructions to screw the first stem sensor onto the Front Left tyre stem (Fig.16).

B. Install a stem sensor onto the tyre stem in the proper sequence (Fig.16) and wait for the smart phone to indicate the sensor was found (Fig.17A).

NOTE: It may take up to 90 seconds for the sensor to awake and be found.

C. If the sensor is not seen within 90 seconds, unscrew the sensor from the tyre stem, wait approximately 10 seconds and then reinstall the sensor. Do not proceed to install any other sensors until the app shows the sensor found.

D. After the sensor has been found, the app will indicate the next tyre sensor to be paired (Fig.17B).

3. Repeat steps 2B, 2C and 2D until all sensors are learned (Fig.18).

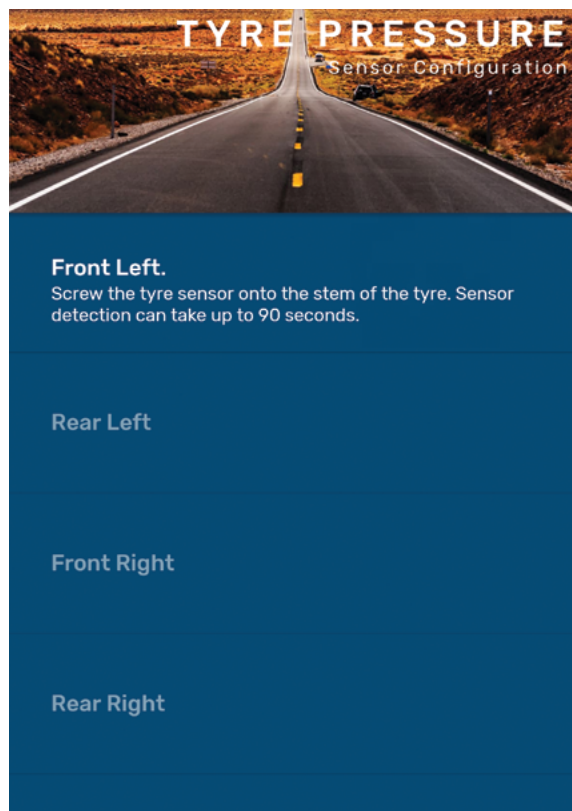


Fig.16



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4. Tap the FINISHED button (Fig.18A) to exit TYRE PRESSURE Sensor Configuration mode.

Pressing FINISHED exits configuration mode and redisplay the TYRE PRESSURE screen. Do **NOT** tap the Learn Sensors button again. Doing so resets Tire Linc into configuration mode, which requires uninstalling the stem sensors.

NOTE: To exit learn mode, tap the back arrow and the sensors will not be forgotten.

NOTE: When learning has been completed, the low and high pressure limits of the tyres are estimated at +/- 20% of the last received sensor data. Make sure sensors are not removed during the learning process or the pressure limit values will be incorrectly estimated. Pressure and temperature limits can be set through the app after learning has been completed.

NOTE: If installing the optional lock nut as a theft deterrent, loosen stem sensor slightly and hand tighten lock nut against the sensor. Using wrench provided in kit, hold lock nut in position and hand tighten stem sensor against lock nut.

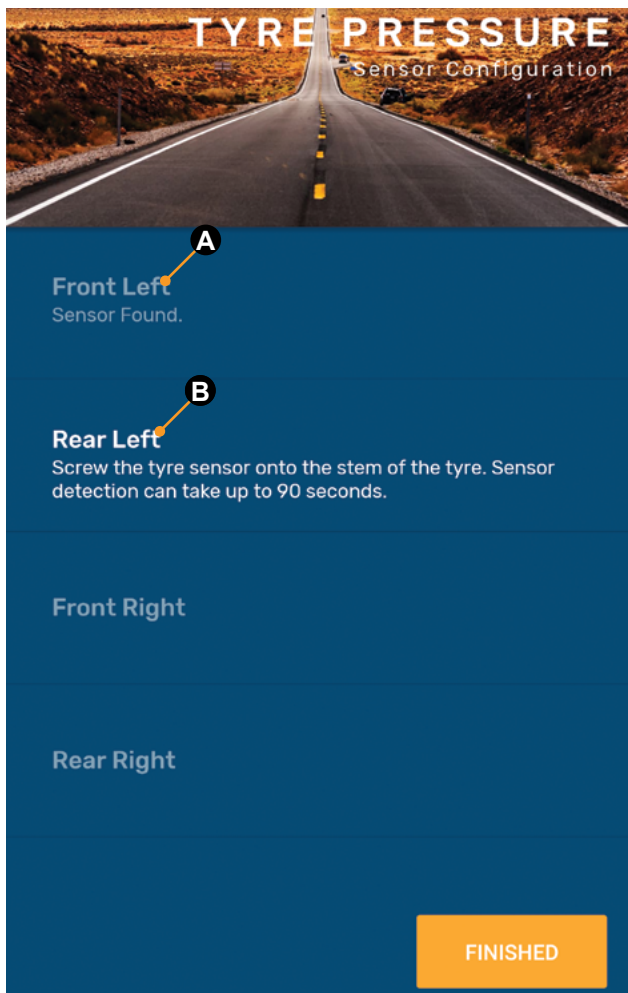


Fig.17

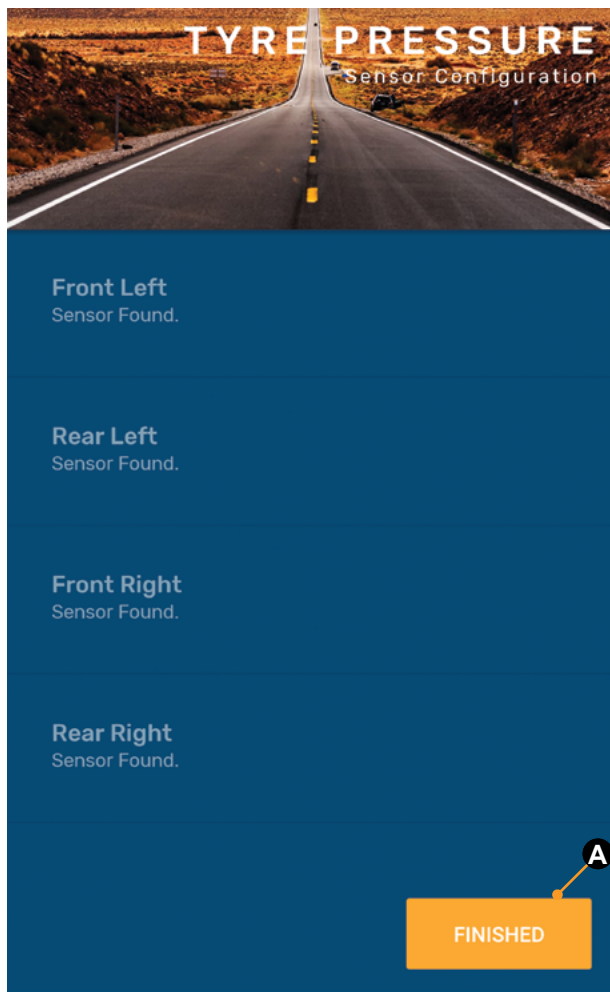


Fig.18



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Operation

When stem sensors are under pressure, data is transmitted to the repeater, when tyres are:

- moving/rotating, every one minute;
- not moving/not rotating, every 15 minutes.

1. If using the LCI OneControl BT app for either an iOS or Android smart phone do as follows:

- A. Tap the OneControl BT icon to launch the app.
- B. The app will automatically detect the Tire Linc system.

NOTE: If necessary, follow the online prompts to set up Tire Linc within the OneControl BT app.

2. The smart phone will connect to the repeater and the app will display a caravan image with tyre pressures and temperatures.

3. With the OneControl BT app running, real-time tyre event notifications will be sent to the smart phone (**Fig. 19**).

4. Tap the notification to be taken to the TPMS screen in OneControl BT to visually see which tyre(s) is/are experiencing an event.

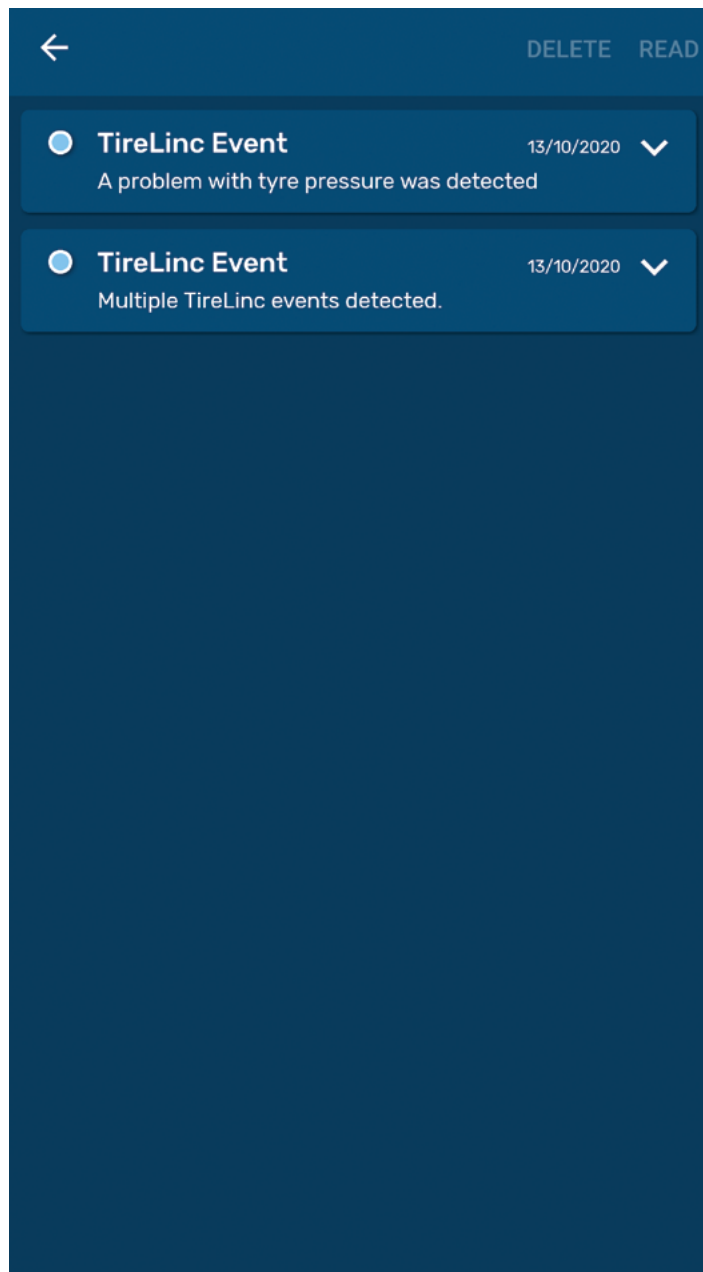


Fig.19



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5. Tap the readout button (Fig.20A) of a tyre to launch its properties window. Within the selected tyre's properties window, various tyre and sensor specifications can be observed and altered.

A. Last data received — posts the date and time the app last received tyre monitoring system information.

B. Pressure — posts the currently-sensed pressure of the selected tyre.

C. Temperature — posts the currently-sensed temperature of the selected tyre.

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

CAUTION

UNDER OR OVER PRESSURIZED TYRES CAN CAUSE UNFORESEEN, DETRIMENTAL EFFECTS ON TYRES AND UNIT, INCLUDING UNDESIRABLE TREAD WEAR. TYRES SHOULD ALWAYS BE PRESSURIZED TO WITHIN THE MANUFACTURER'S RECOMMENDATIONS.

E. Minimum/Maximum Pressure Threshold — posts the currently programmed minimum and maximum pressure limits for the selected tyre.

F. Maximum Temperature Threshold — posts the currently programmed maximum temperature limit for the selected tyre.

G. Maximum Temperature Change — posts the currently programmed maximum +/- temperature change limit for the selected tyre.

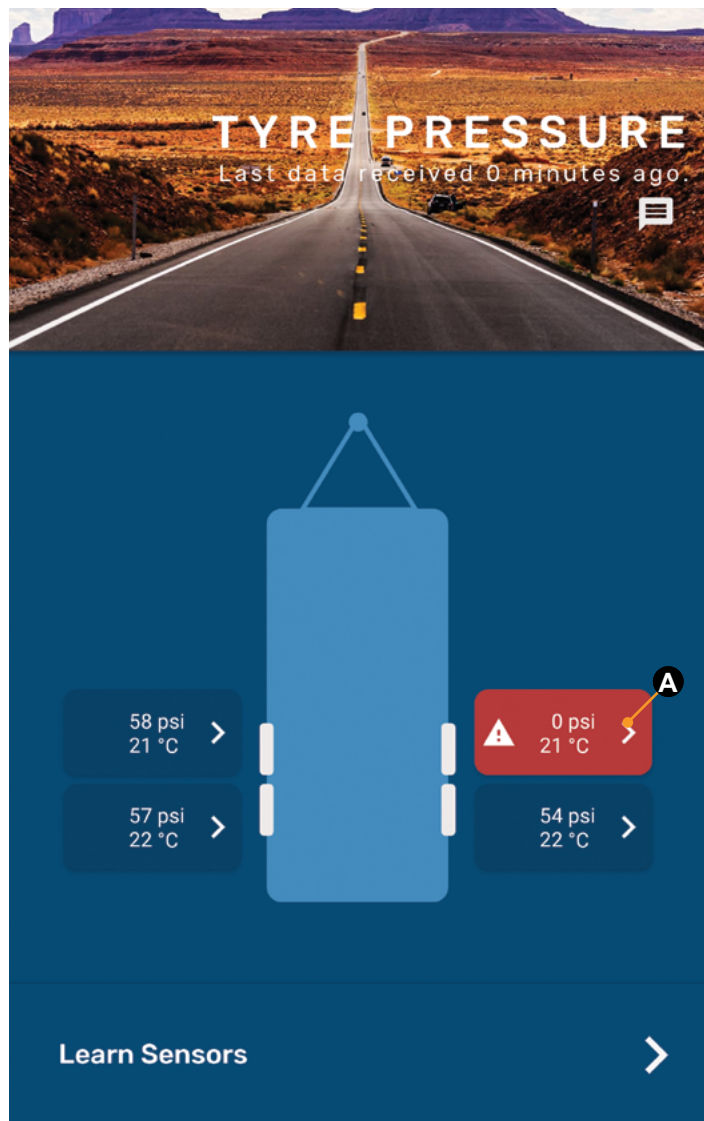


Fig.20

Tyre Limits Example

Programmable tyre limits have a “next” arrow (>) that, when tapped, opens that feature’s scrollable window of available settings. Scroll through the limits window to find the desired setting, select it, then tap the “back” arrow (<) (Fig.21A) located above the tyre’s name at the top of the window’s heading.



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

NOTE: The Alert Indicator uses LED flashes and audible (beep) tones to deliver tyre event notifications.

1. Select a tyre by tapping its information button to launch its settings window — **FRONT LEFT TYRE**.

A. In this example, the reported current tyre **Pressure** is listed as “58 psi” (**Fig.21**).

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 tyre gauge—actual tyre pressure at 38 psi (262 kPa) may be reported by the Stem Sensor as 36 psi (248.2 kPa) while the tyre gauge may report 40 psi (275.8 kPa).

B. Compare the tyre's minimum/maximum pressure range (46 - 68 psi) against the reported tyre pressure (58 psi). Make sure tyre pressures are within recommended limits.

C. If the **Minimum Pressure Threshold** requires adjusting, tap the next arrow to launch its settings window. Scroll through the window to a desired limit and select it (**Figs.21 and 23**).

D. If the **Maximum Pressure Threshold** requires adjusting, tap the next arrow to launch its settings window. Scroll through the window to a desired limit and select it (**Figs.21 and 24**).

E. The **Maximum Temperature Threshold** and the **Maximum Temperature Change** can also be adjusted (**Figs.22, 25 and 26**). Scroll through the window to access the temperature adjustments.

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

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

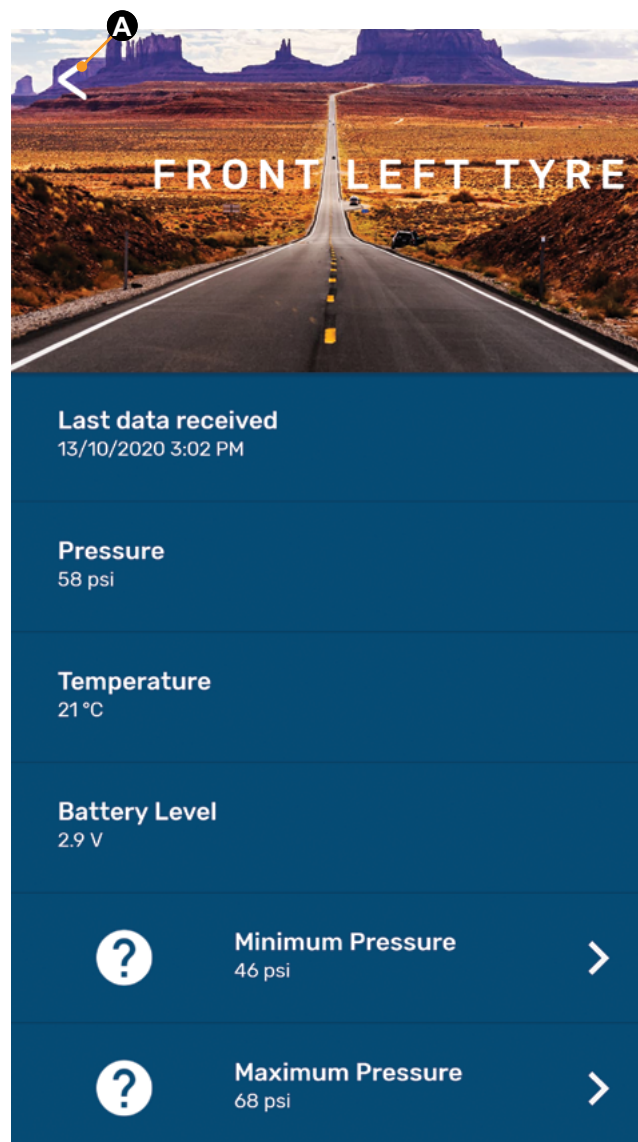


Fig.21



Fig.22



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MINIMUM PRESSURE

Set the low-pressure threshold.

- ☐ 33 psi
- ☐ 34 psi
- ☐ 35 psi
- ☒ 36 psi

Fig.23

MAXIMUM TEMPERATURE

Set the high-temperature threshold.

- ☐ 62 °C
- ☐ 63 °C
- ☐ 64 °C
- ☒ 65 °C

Fig.25

MAXIMUM PRESSURE

Set the high-pressure threshold.

- ☐ 51 psi
- ☐ 52 psi
- ☐ 53 psi
- ☒ 54 psi

Fig.24

MAXIMUM TEMP CHANGE

Set the maximum temperature difference.

- ☐ 1 °C
- ☒ 2 °C
- ☐ 3 °C
- ☐ 4 °C

Fig.26



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Configure All Sensors

As an option to configuring sensors individually, all the sensors can be configured simultaneously.

1. Press the arrow by Configure All Sensors (Fig.27A).
2. The next screen will feature settings for all programmable limits (Fig.28). Select the arrow to the right of the setting to establish pressure and temperature thresholds for all the sensors.

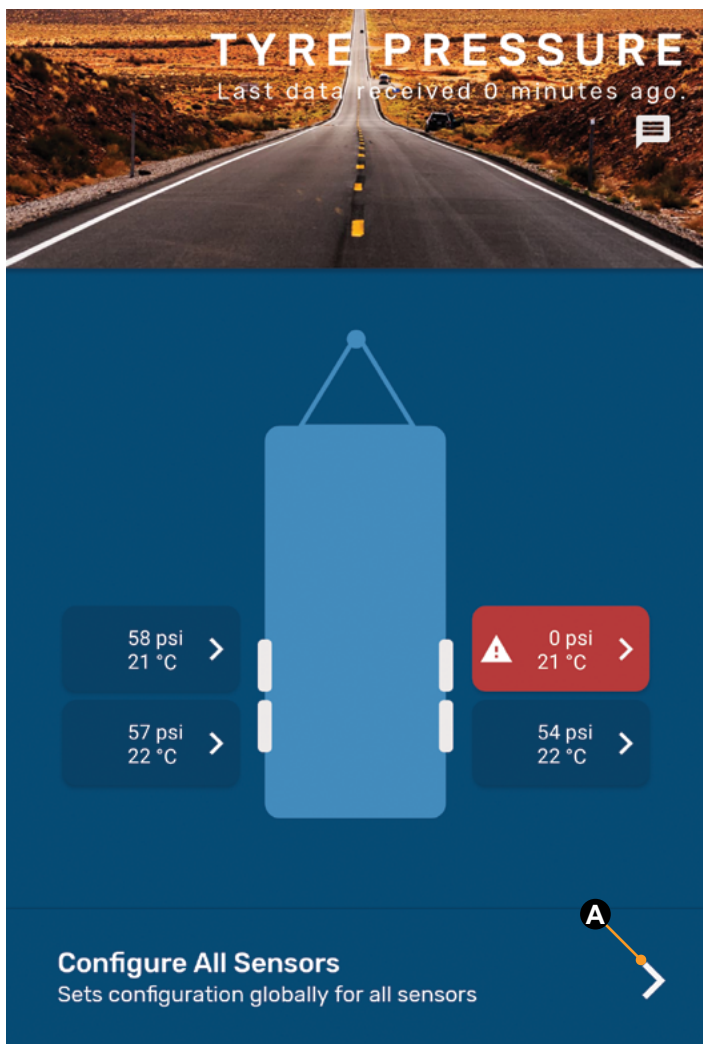


Fig.27

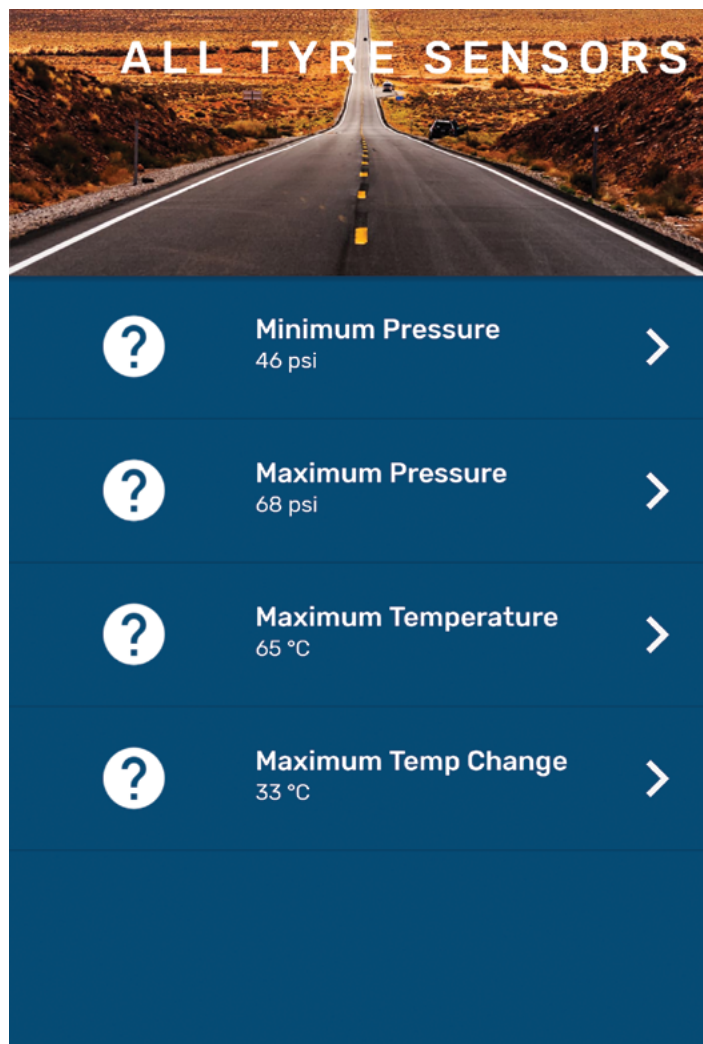


Fig.28



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Changing Units of Measure

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

1. Tap the Settings icon (gear) (Fig. 9B).
2. From the **SETTINGS** screens, tap the Units option.
3. The **SETTINGS** screen will display the current units of measure.
4. Tap the arrow right of the Units setting.
5. On the **TEMPERATURE SCALE** window, tap the desired unit of measure—°F—Fahrenheit or °C—Celsius.

NOTE: Unit of measure for temperature and pressure (psi/kPa) will change according to the selection made.

6. Tap the back arrow above the screen title to return to the **SETTINGS** screen.

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

7. Tap the back arrow above the screen title to return to the **HOME** screen.

Troubleshooting

Remove Stem Sensor to Change Battery

Removal of the stem sensor battery can be completed with the included stem sensor tool. The stem sensor tool, which is taken apart to utilize, is comprised of two pieces molded to match the tops and bottoms of the stem sensors. Slightly rotate the pieces opposite of each other and then carefully pry them apart to separate. One piece is used on top of the stem sensor and one piece of the tool is used on the bottom.

If the stem sensor batteries fail, replace them as follows:

1. Remove stem sensor from tyre stem.

NOTE: If using the optional lock nuts as a theft deterrent, use the supplied wrench to hold the lock nut while unscrewing the sensor from the tyre stem.

2. Using the stem sensor tool with a piece on top and a piece on the bottom of the stem sensor, unscrew the top cap of the stem sensor to expose the battery.

3. Replace battery with CR1632 3V lithium coin battery.

NOTE: Replacement batteries are not included.

4. Replace supplied stem sensor O-ring when replacing battery.

Missing Stem Sensor

If a Stem Sensor becomes loose or is missing from a tyre, the readout button (Fig. 20A) will be grayed out. Tighten the loose sensor or replace with new.

Factory Reset

In the event a wrong caravan type is chosen or if there is a new caravan configuration, the settings can be reset.

1. Press and hold the pair button on the repeater for approximately 10 seconds.
2. Continue holding the button until there is one long red blink followed by four red blinks.
3. Release button.

No Power

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

Learn Sensors Procedure Resets System

Do **NOT** tap the Learn Sensors button. Doing so resets Tire Linc into configuration mode, which requires uninstalling the stem sensors.



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