



TIRE LINC[®]
TYRE PRESSURE
& TEMPERATURE
MONITORING SYSTEM 2.0
OWNER'S MANUAL (AU)

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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

Refer to figure 1 for the following components:

Sensors - Stem mount, 129.6 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.

For information on the assembly or individual components of this product, please visit:

<https://support.lci1.com/tire-linc>.

Safety

Read and 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

Moving parts can pinch, crush or cut. Keep clear and use caution.

Fig. 1



Tire Linc Components	
Callout	Description
A	Repeater
B	Repeater Dock; already installed in unit
C	Stem Sensor
D	Stem Sensor Tool; separates into top and bottom parts
E	Lock Nut Wrench; tool to install lock nuts for optional theft deterrent
F	O-ring; replace existing Stem Sensor O-rings when replacing Stem Sensor batteries
G	Lock Nut; optional, used if installing as a theft deterrent

Preparation

Install Repeater

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

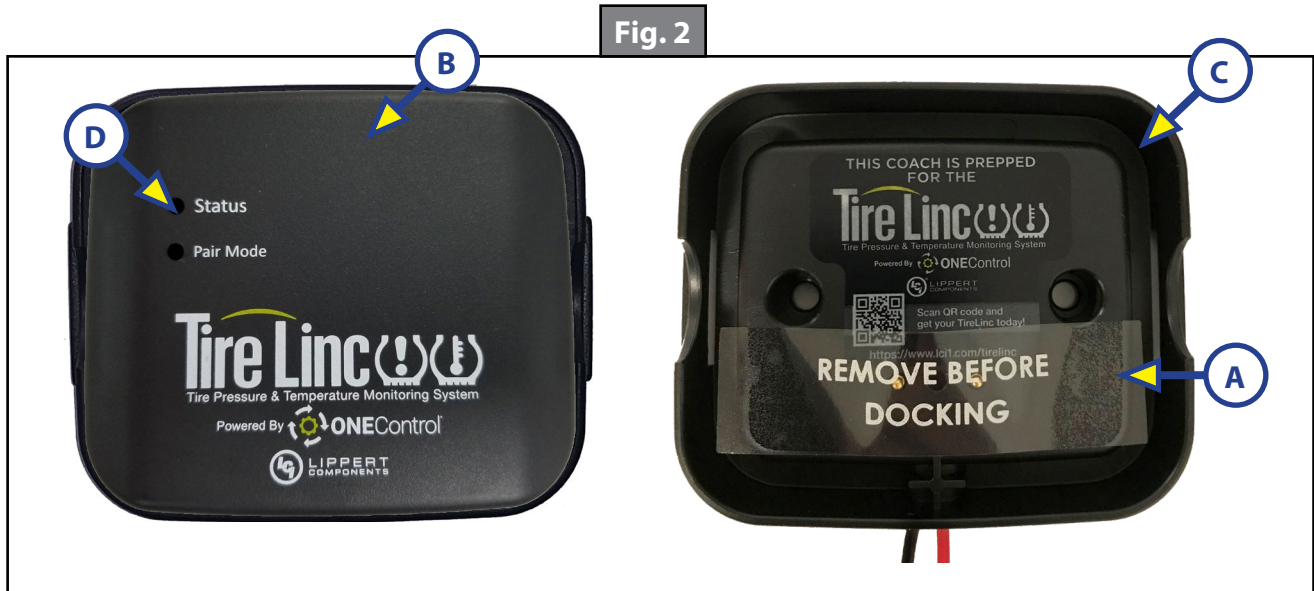
NOTE: Film cover should be removed only when ready to install repeater.

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

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

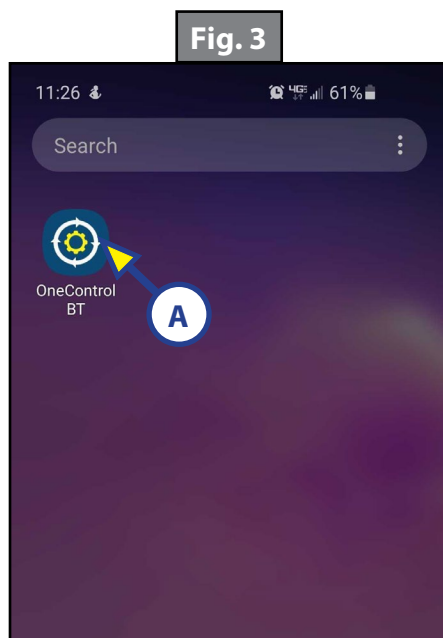
3. The repeater will power on, lighting up the Status LED (Fig. 2D) and blinking to indicate the repeater has power.

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



Pairing OneControl BT App to Repeater

1. Download the LCI OneControl BT app on 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.
3. Read and accept the License Agreement (Fig. 4). Tap I Accept button to continue.



4. OneControl BT requires location permission to find and connect to available networks (Fig. 5). Tap Continue button to proceed with setup.
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.
6. Look for Tire Linc and tap 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 below is displayed at the end of the listing, which is -37dB (Fig. 7).
7. Examples on how 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. 5

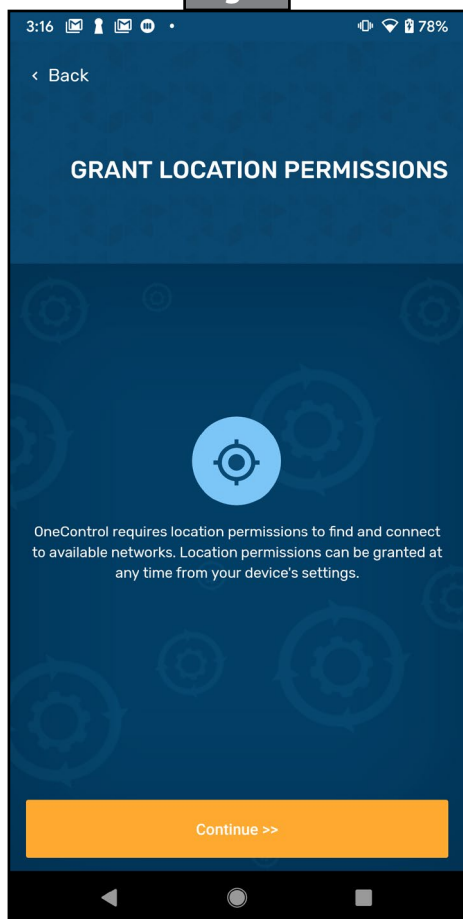


Fig. 6

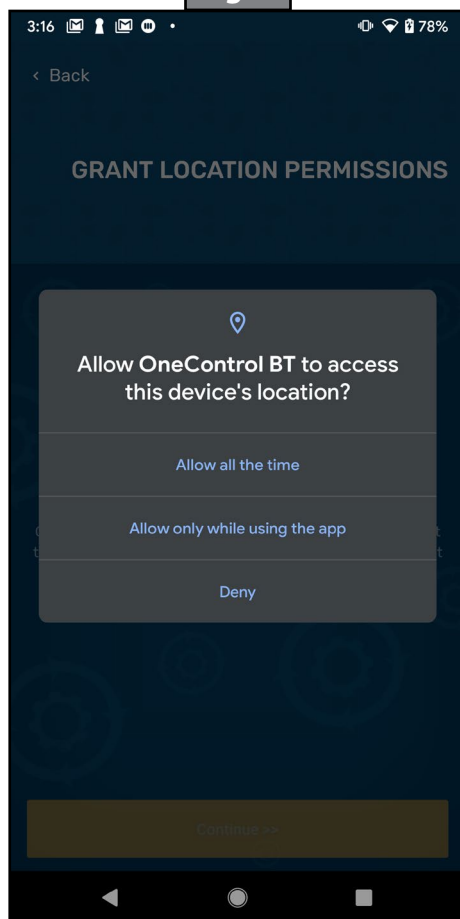
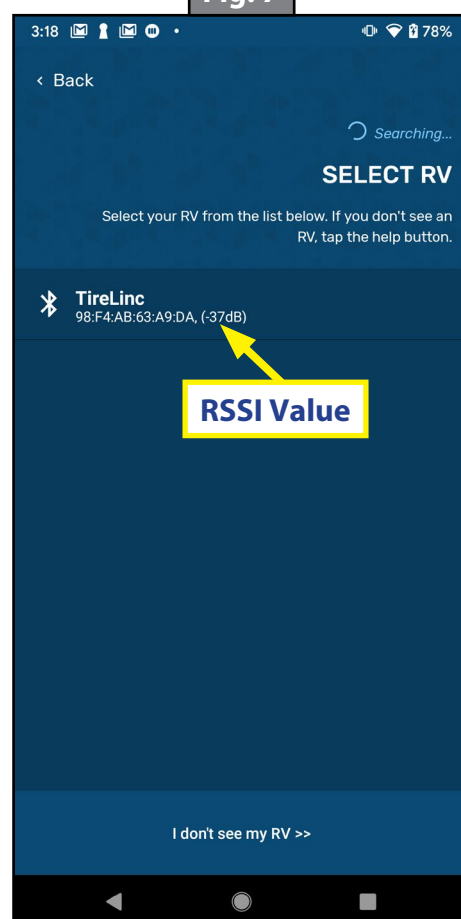
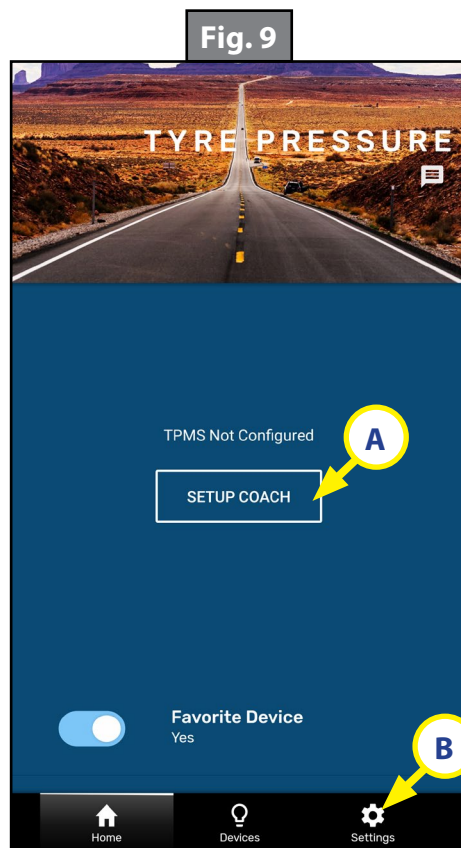
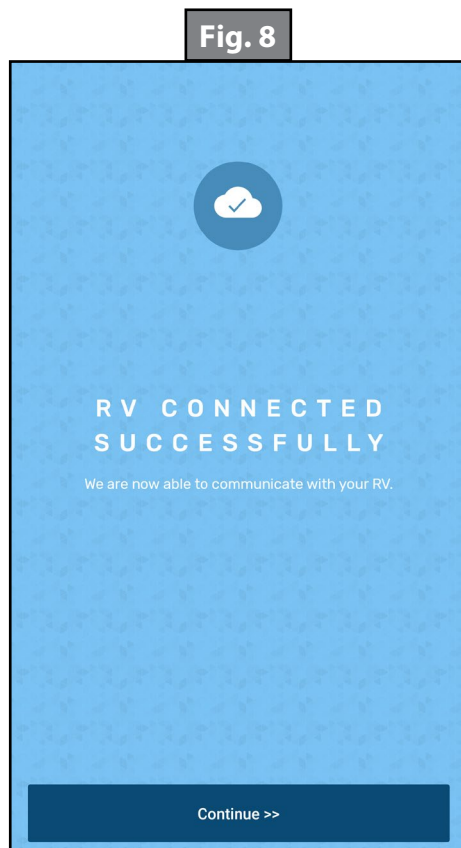


Fig. 7

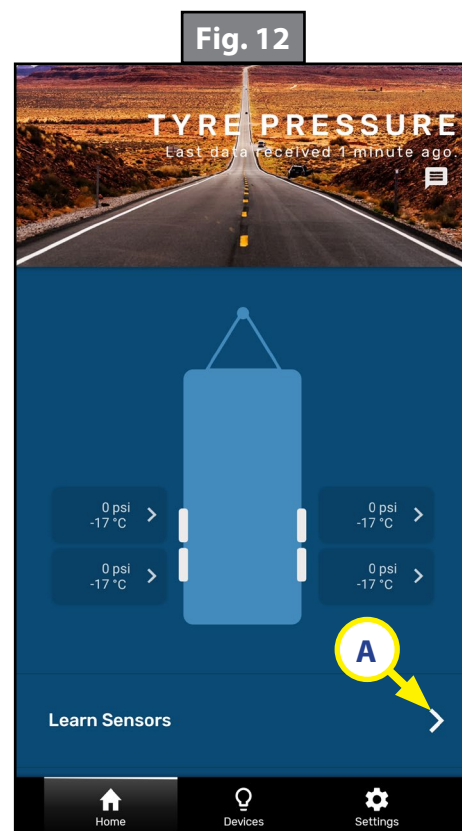
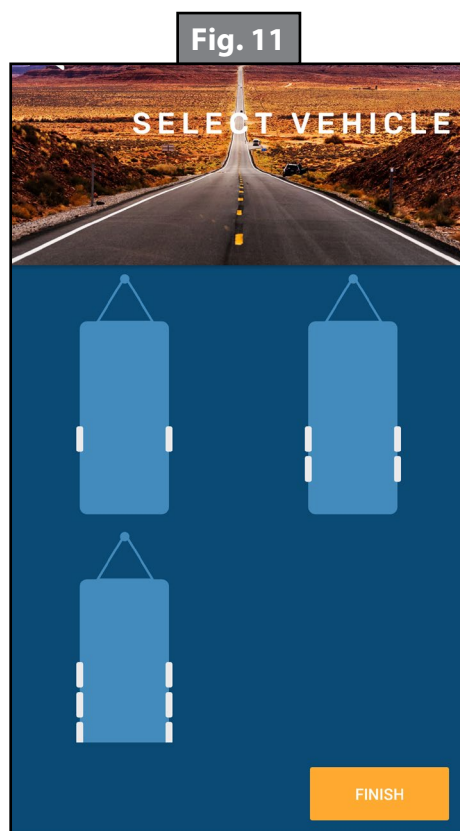
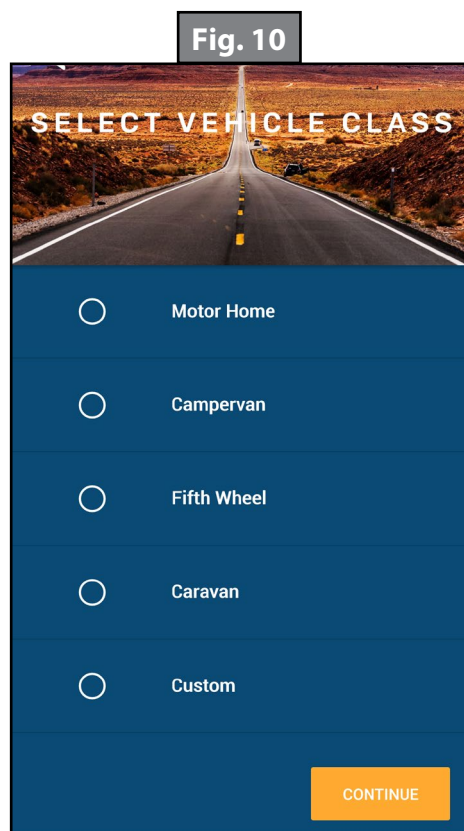


8. The screen will indicate the RV has connected successfully (Fig. 8). Tap Continue button to proceed.
9. Tap the SETUP COACH button to continue (Fig. 9A).



10. Select a vehicle class and tap CONTINUE (Fig. 10).
11. Select a vehicle layout and tap FINISH (Fig. 11).
12. Finish setup by pressing the arrow to the right of Learn Sensors (Fig. 12A).

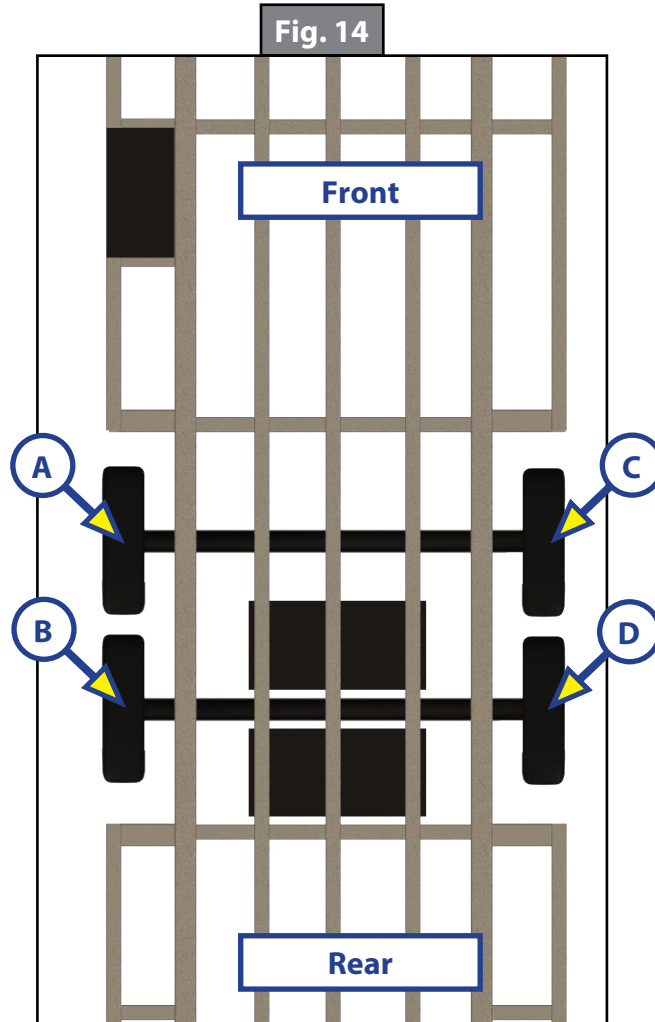
NOTE: Scroll down the screen to view the Learn Sensors button.



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) and 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) and Right Rear (Fig.14D).



Pair Stem Sensors to Repeater Via Smart Phone

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

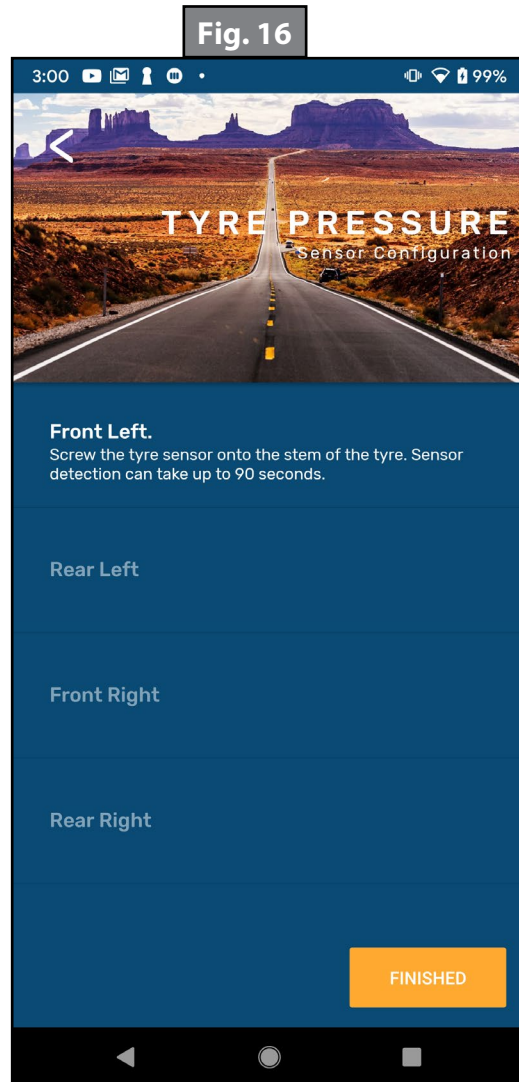
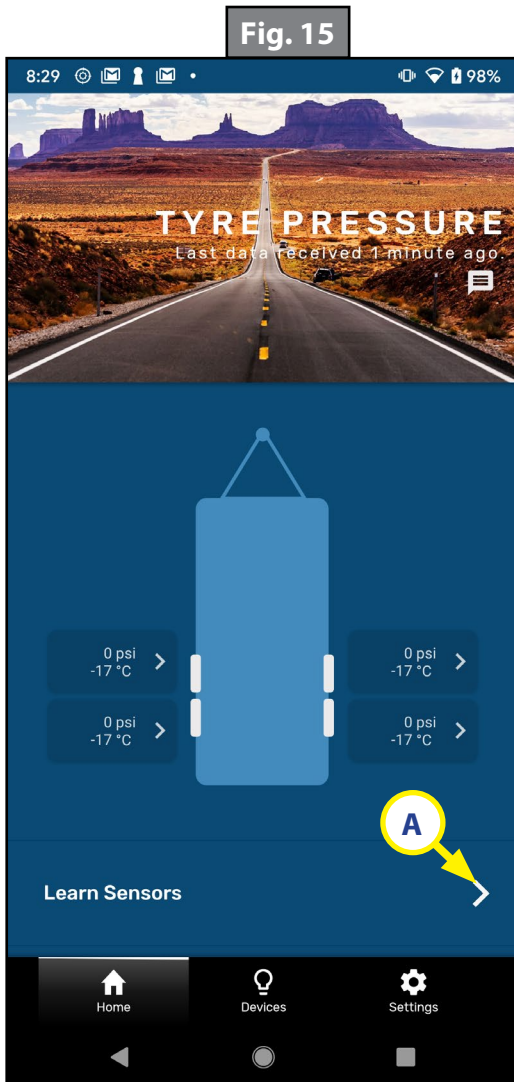
The OneControl BT app on the smart phone will indicate in specific order which tyre the stem sensor cap should be installed on: Front Left, Rear Left, Front Right, Rear Right, etc.

1. Have stem sensors available to install on the tyres and remove any existing stem caps from the tyres.

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

2. Pair stem sensors to the repeater as follows:

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

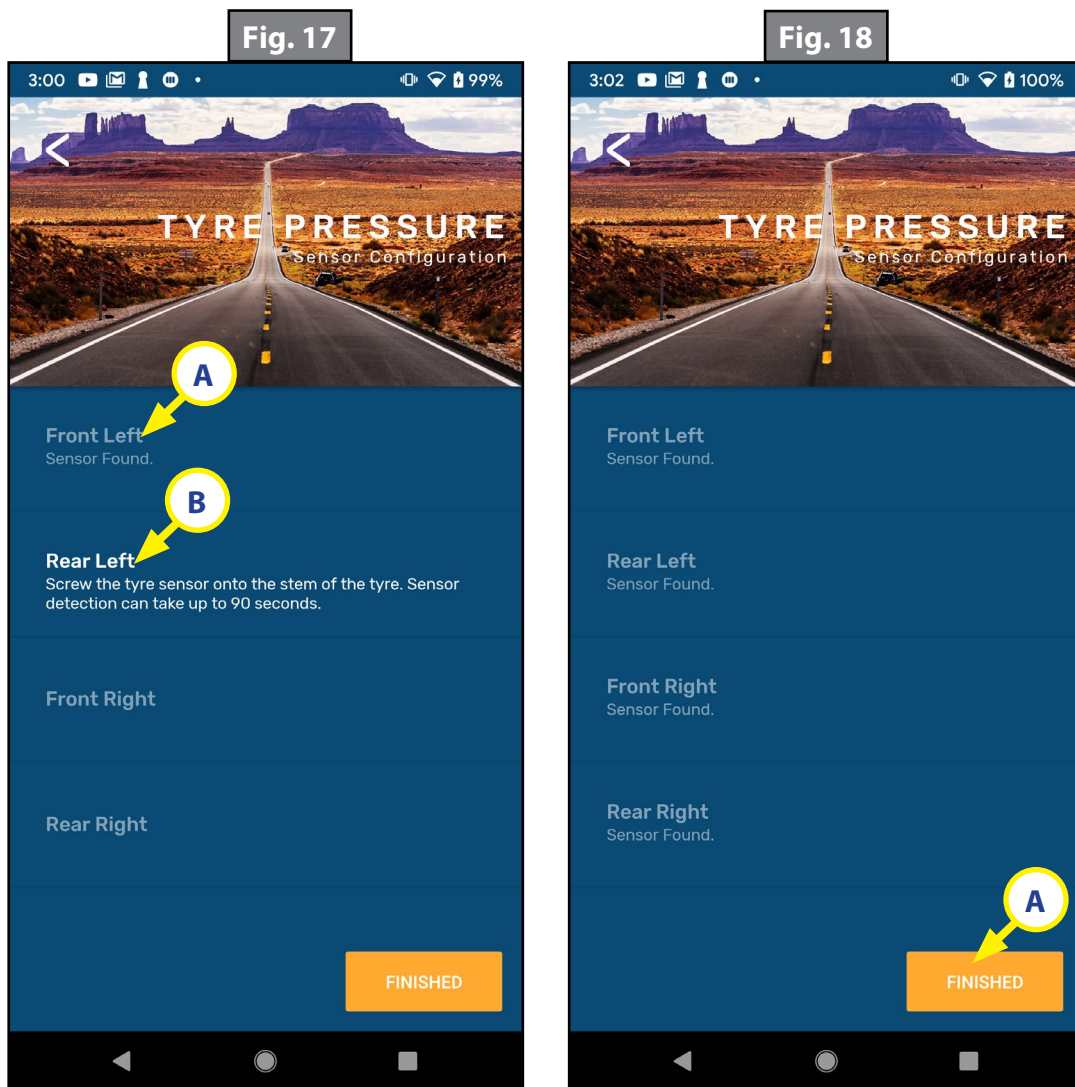
NOTE: It may take up to 90 seconds for the sensor to wake and be found.

- 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 is found.

- D.** After the sensor has been found, the app will indicate the next stem sensor to be paired (Fig.17B).
- E.** Repeat step 2B, 2C and 2D until all sensors are learned (Fig.18).
- 3.** Tap the FINISHED button (Fig.18A) to exit **TYRE PRESSURE** Sensor Configuration mode. Tapping FINISHED exits configuration mode and redisplay the Tyre Pressure screen (Fig. 15). Do **NOT** tap the Learn Sensors button. Doing so resets Tire Linc into configuration mode, which requires uninstalling the Stem Sensors.

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



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.

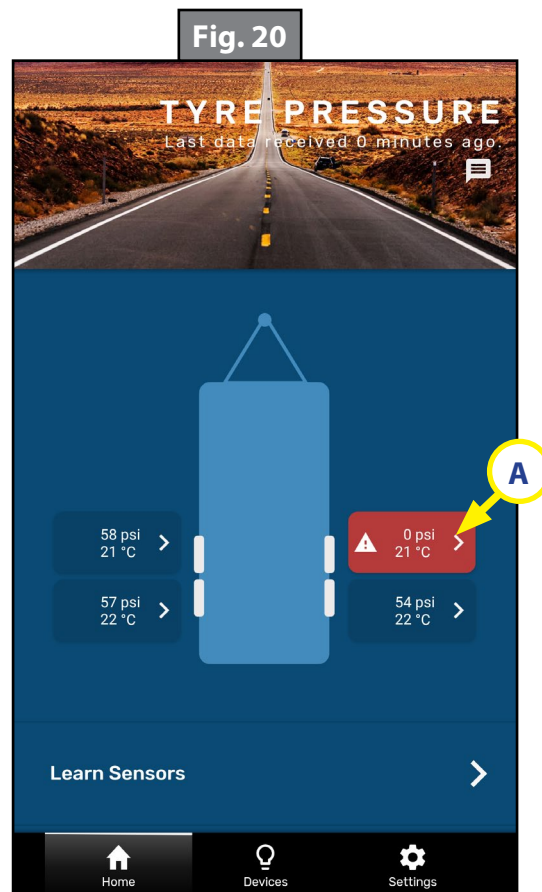
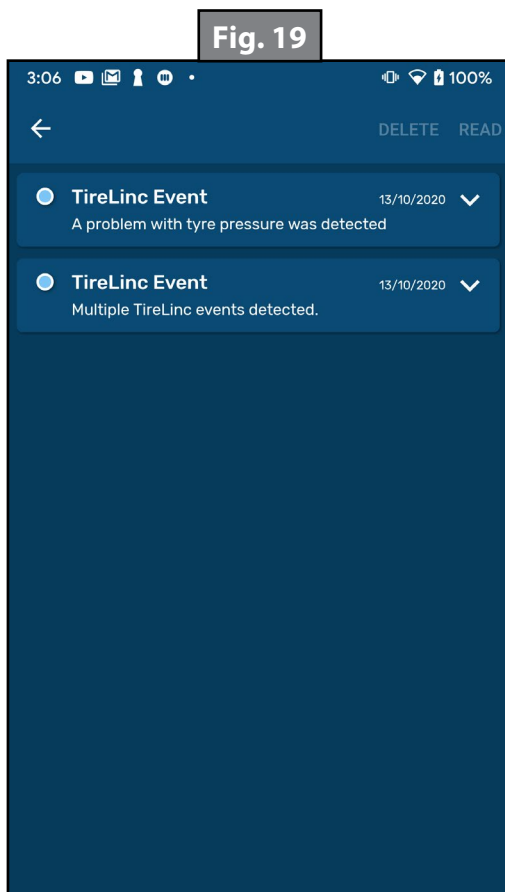
NOTE: If necessary, follow the online prompts to set up Tire Linc within the OneControl BT app.

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 (Fig. 19) will be sent to the smart phone.
4. Tap the notification to be taken to the TPMS screen in the OneControl BT app to see which tyre(s) is/are experiencing an event.
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 (Figs. 21 and 22).
 - 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

Tyres that have high or low air pressure can cause unforeseen detrimental effects on tyres and the unit, including undesirable tread wear. Tyres should always be pressurized to within the manufacturer's recommendations.

- E. **Minimum/Maximum Pressure** — posts the currently programmed minimum and maximum pressure limit for the selected tyre.
- F. **Maximum Temperature** — posts the currently programmed maximum temperature limit for the selected tyre.
- G. **Maximum Temp Change** — posts the currently programmed maximum +/- temperature change limit for the selected tyre.



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 (<) located above the tyre’s name at the top of the window’s heading.

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.

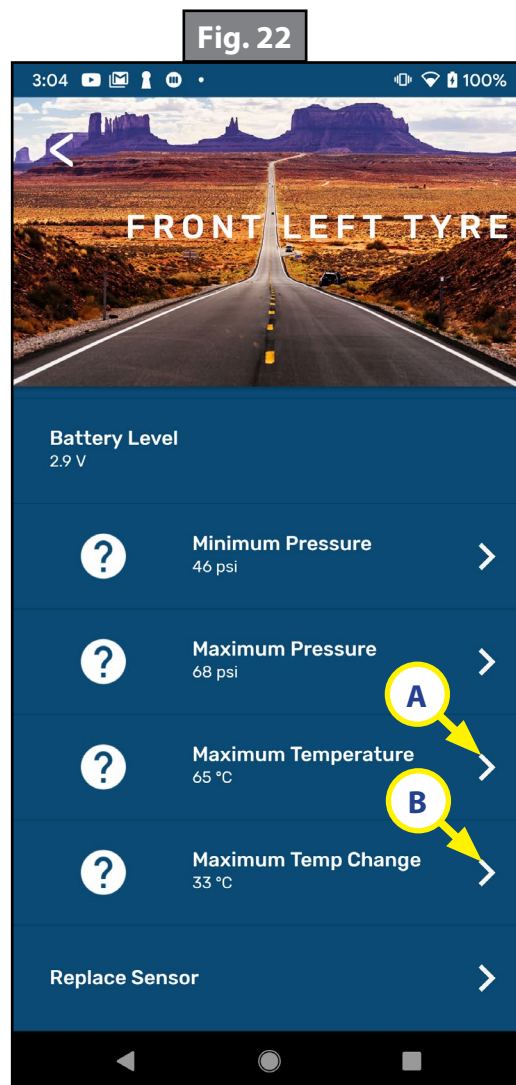
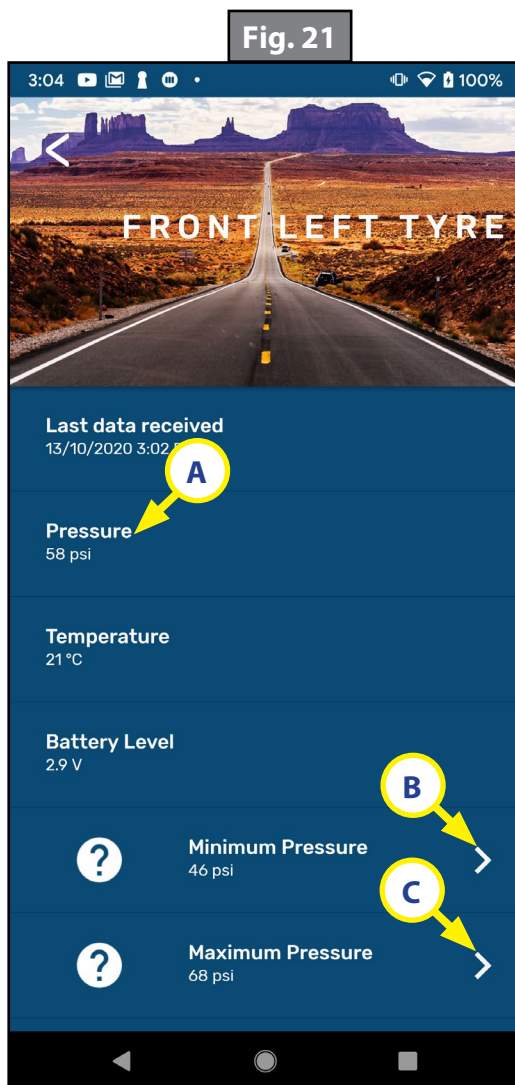
1. Select a tyre by tapping its information button to launch its settings window—**FRONT LEFT TYRE** (Fig. 21).

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

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) (Fig. 21B and C) against the reported tyre pressure (58 psi) (Fig. 21A). Make sure tyre pressures are within recommended limits.
2. If the **Minimum Pressure** requires adjusting, tap the arrow next to Minimum Pressure to launch its settings window (Figs. 21B). Locate the current setting (Fig. 23) and modify as needed.
3. If the **Maximum Pressure** requires adjusting, tap the arrow next to Maximum Pressure to launch its settings window (Figs. 21C). Locate the current setting (Fig. 24) and modify as needed.



4. The **Maximum Temperature** (Fig. 22A) and the **Maximum Temp Change** (Fig. 22B) can also be adjusted in similar fashion. Locate the current settings (Figs. 25 and 26) and modify as needed.

NOTE: Stem Sensor Temperature Reading Tolerance: $\pm 3^{\circ}\text{C}$ ($\pm 5.4^{\circ}\text{F}$).

For example, if a Stem Sensor reports tyre temperature at 29°C (85°F), actual tyre temperature may be $32\text{--}26^{\circ}\text{C}$ ($90.4\text{--}79.6^{\circ}\text{F}$).

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

Fig. 23

MINIMUM PRESSURE
Set the low-pressure threshold.

☐ 33 psi

☐ 34 psi

☐ 35 psi

☒ 36 psi

☐ 37 psi

☐ 38 psi

Fig. 24

MAXIMUM PRESSURE
Set the high-pressure threshold.

☐ 51 psi

☐ 52 psi

☐ 53 psi

☒ 54 psi

☐ 55 psi

☐ 56 psi

Fig. 25

MAXIMUM TEMPERATURE
Set the high-temperature threshold.

☐ 62 $^{\circ}\text{C}$

☐ 63 $^{\circ}\text{C}$

☐ 64 $^{\circ}\text{C}$

☒ 65 $^{\circ}\text{C}$

☐ 66 $^{\circ}\text{C}$

☐ 67 $^{\circ}\text{C}$

Fig. 26

MAXIMUM TEMP CHANGE
Set the maximum temperature difference.

☐ 1 $^{\circ}\text{C}$

☒ 2 $^{\circ}\text{C}$

☐ 3 $^{\circ}\text{C}$

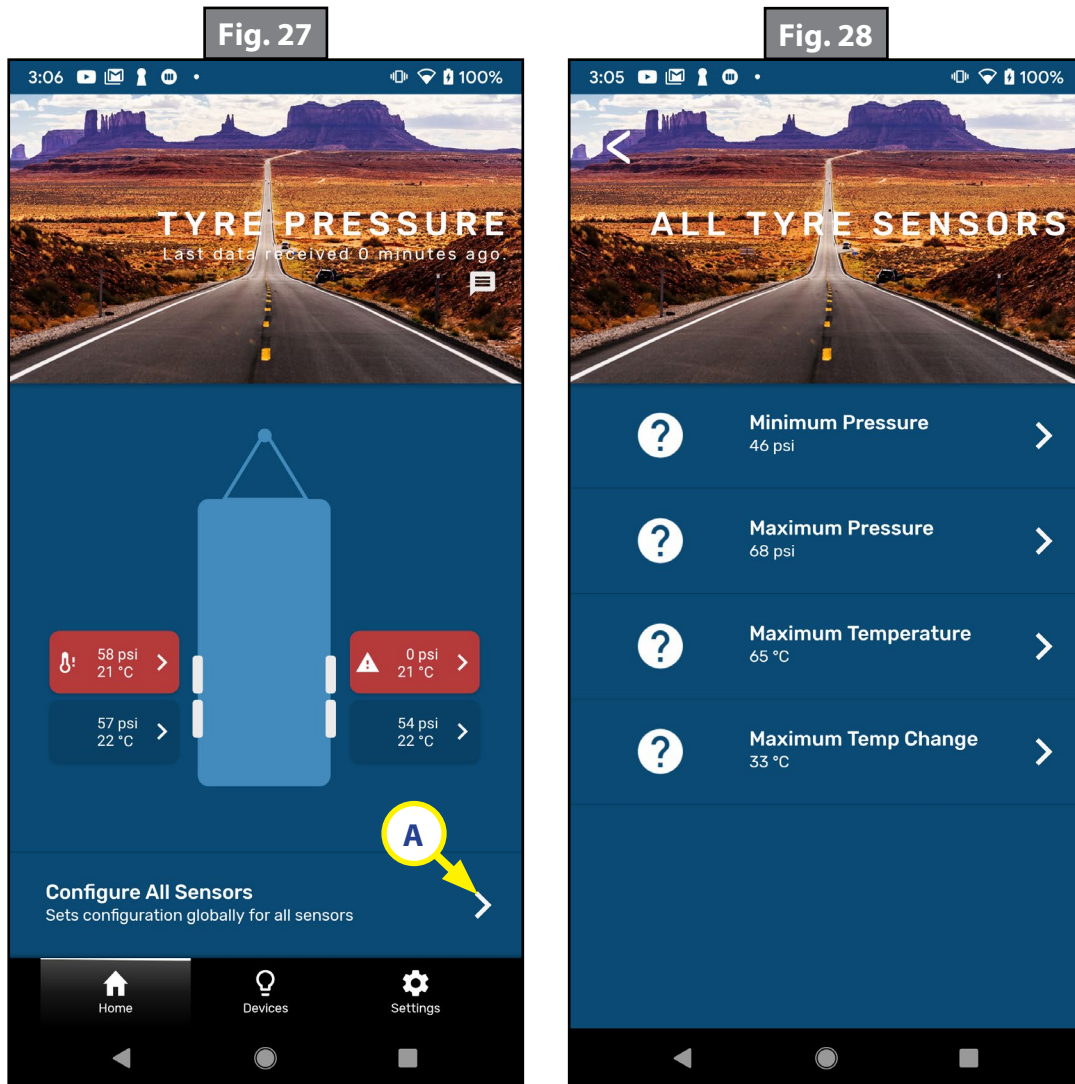
☐ 4 $^{\circ}\text{C}$

☐ 5 $^{\circ}\text{C}$

Configure All Sensors

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

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



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.
- NOTE:** The **SETTINGS** screen will display the current units of measure.
3. Tap the arrow right of the Units setting.
 4. 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.

5. 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.

6. 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, do as follows to replace them:

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** press the Learn Sensors button. Doing so resets Tire Linc into configuration mode, which requires uninstalling the stem sensors.

Notes

[illegible]



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