

# INSTALLATION MANUAL

# 57009

## Level of Difficulty

### Easy

Installation difficulty levels are based on time and effort involved and may vary depending on the installer level of expertise, condition of the vehicle and proper tools and equipment.

## Parts List

Item	Qty	Description
1	1	Repeater
2	1	Repeater mounting plate
3	1	Stem sensor tool
4	4	Stem sensors*
5	1	Lock nut wrench
6	4	Stem sensor O-rings
7	4	Lock nuts for tire stems
8	1	USB charging cable
9	1	Pigtail charging cable
10	1	120V wall charger
11	4	Mounting screws

\*Additional sensors can be purchased (CURT part# 57011)

## Tools Required

OneControl® Auto app	Wire stripper
Cordless / electric drill or screw gun	Appropriate electrical connectors
Drill	T-10 drive bit
#29 Drill bit	

## Product Registration and Warranty

CURT stands behind our products with industry-leading warranties. To get copies of the product warranties, register your purchase or provide feedback, visit: [curtmfg.com/registration](http://curtmfg.com/registration)

## ⚠ WARNING

Failure to correctly follow the provided instructions may result in death, serious personal injury, severe product and / or property damage, including voiding of the CURT limited warranty.

Only use the adapter supplied with this product. Use of unauthorized adapter may cause fire, serious injury or product and property damage

Product contains lithium rechargeable battery. Do not dispose in trash. Recycle or return to authorized dealer for disposal. Do not incinerate.

Recommended charging temperature is between 50°F - 113°F (10°C - 45°C). Charging below 50°F (10°C) will be 50% slower and is not possible below 32°F (0°C). Limits in place are to protect the life of the battery.

## Product Photo



## NOTICE

Visit [www.curtmfg.com/part/57009](http://www.curtmfg.com/part/57009) for a full-color copy of this instruction manual, as well as helpful videos, guides and much more!

Before you begin installation, read all instructions thoroughly.

Proper tools will improve the quality of installation and reduce the time required.

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.

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

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Periodic inspection of the trailer hitch system should be performed to ensure all mounting hardware remains tight and structural components are secure.

## SAFETY INSTRUCTIONS

Safety glasses should be worn at all times while installing this product.

# ASSEMBLY

## Parts List

Item	Qty	Description
1	1	Repeater
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## Key System Components

- Repeater - Receives sensor data, communicates with phone app via Bluetooth® low energy (BLE).
- Repeater mounting plate - Repeater mounts into this base.
- OneControl® Auto app - Displays real-time tire pressures, temperatures and visual alerts for faults.

## Product Specifications

- Operating Temp: 14°F to 122°F (-10°C to 50°C)
- Repeater Charging Temp: 50°F to 113°F (10°C to 45°C)
- Measurement temp: -58°F to 401°F (-50°C to 205°C)  
- Temperature accuracy is +/- 5.4°F (+/- 3°C)
- Operating Pressure: 0 PSI to 188 PSI
- Measurement Pressure: 0 PSI to 188 PSI
- Repeater IP Rating: IP67
- Tire Sensor IP Rating: Exceeds IP67

# INSTALLATION OF REPEATER & MOUNTING PLATE

## Before You Begin – Charge Battery and Download App

1. Prior to installing and using the Tire Linc™ Auto repeater, it is recommended to fully charge the device battery to 100%.

- Repeater should be charged for a minimum of four hours prior to initial pairing.
- If repeater battery is below 25%, pairing of the repeater could be disrupted.

Use the included charging harness and plug the USB-A connector into the included charging brick and plug into a 120V receptacle. Plug in and screw onto repeater terminal; red LED should illuminate for five seconds.

Condition	Temperature	Estimated Battery Life
Ideal	73°F / 23°C	5.5 days (8 hrs of use per day)
High	122°F / 50°C	5 days (8 hrs of use per day)
Low	14°F / -10°C	3 days (8 hrs of use per day)

2. Download the OneControl® Auto app for either an iOS or Android smart phone.



3. Ensure the trailer tires are filled to the proper PSI (listed on the side of each tire) prior to installation.

## Step 1 – Select Repeater Power Method

Tire Linc™ Auto offers two options for supplying power to the repeater:

1. Continuous 12V power harness, which includes a splice-in pigtail cable for 12V power supply.
2. Portable battery powered with included USB charging cable and 120V wall-charging brick.

## Step 2 – Identify Mounting Location and Install Repeater Mounting Plate

1. The repeater should be mounted on the trailer frame, exterior trailer wall or inside a trailer compartment as low, forward and centered to the tow vehicle as possible to avoid damage. Be sure to mount in a location where the repeater is easily accessible and can be removed.

2. Vertically orient the mounting plate and secure it to a flat surface of the trailer with four self-drilling T10 head screws, #8 x 1" (refer to the image to the right for proper orientation).

**Note:** To avoid damaging the screws, it is recommended to pre-drill mounting holes using a #29 drill bit.

### ⚠ CAUTION

Do not overtighten screws.

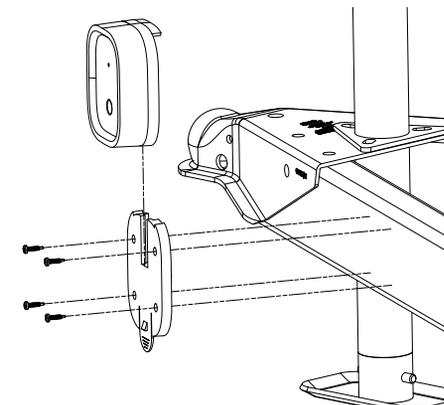
### Note:

1. The mounting plate should be in a location where the repeater can be easily removed - a mounting plate that is too close to the trailer frame or other obstructions may be difficult or impossible to remove.

2. For splice-in installation, locate a mounting area that allows connection of the Tire Linc Auto repeater to the trailer's power source without creating a strain on the completed connection.

3. It is recommended to have repeater facing forward, towards the cab of the truck, for best wireless connectivity with repeater.

**Helpful Tip:** The -db value that is broadcast to the app from the repeater may be used to select the best mounting location. The -db value should be as close to 0 as possible. This -db value can be found during repeater pairing in step 4 of the pairing repeater and initial app setup.



## DEVICES FOUND

Select your TireLinc from the list. If you don't see it, tap the.. **more**

TireLinc -64db  
F4:12:FA:8E:C2:DE



#### Step 4 – Splice into Power Source (if applicable)

For splice-in installation, make sure the power to the trailer is off.

Screw in the terminal end into the repeater's power connector port as shown.

Connect the charging harness's red power wire and black ground wire to the trailer's power and ground as shown in the images to the right.



#### Step 5 – Secure Repeater to Mounting Plate

1. Once the mounting plate is installed, slide the repeater into the mounting plate using the T-channel on the back of the repeater.

2. Slide the repeater down the mounting plate until engaged with the mounting plate tab. A 'click' will be heard as the tab is engaged with the repeater.

3. To disconnect, push the tab rearward, toward the trailer, to release the repeater. Slide the repeater away from the tab to dis-engage and separate from the mounting plate.



## PAIRING REPEATER & INITIAL APP SETUP

#### Step 1

After the battery is fully charged, tap the CTF (capacitive touch function) button on the front of the device to 'wake' it up.

The repeater will power on and the FI (Function Indicator) LED will illuminate red for 5 seconds to indicate the repeater has power.



#### Step 2

After the OneControl® Auto app has been downloaded, select the OneControl® Auto icon to launch the app.

#### Step 3

Read and agree to the license agreement. Follow the prompts in the app for connecting to an existing account or create a new account if this is your first OneControl® Auto device.

## Step 4

From the OneControl® Auto Home Page, select 'Pair Device' under the Tire Linc™ icon.

On the 'Devices Found' screen, the app should display any available repeaters that are in range. If there is more than one in close proximity, select the device ID with the decibel (-db) value closest to 0.

Select and tap the desired device ID and then tap the 'Connect' button. Once pairing is successful, a notification will appear stating the process is complete. The app will return back to the home page.

## DEVICES FOUND

Select your TireLinc from the list. If you don't see it, tap the.. **more**

TireLinc -64db  
F4:12:FA:8E:C2:DE

# TIRE CONFIGURATION & PAIRING SENSORS

## Step 1

To begin, under the Tire Linc™ icon, select the 'Open' button and then the 'Set-Up' button to begin the tire sensor pairing process.

## Step 2

At the bottom screen are three buttons:

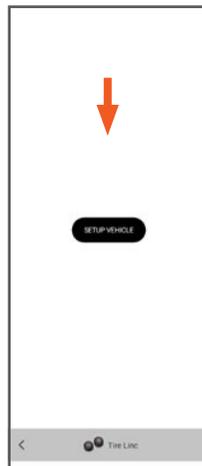
- Add 2 wheels
- Add 4 wheels
- Confirm

Identify the front or first row axle tire quantity and select the amount. Repeat the same selections for all additional axles on the trailer. Once the trailer axle and tires quantities are defined, select 'Confirm' and you will be led to the 'Pair Sensors' page.

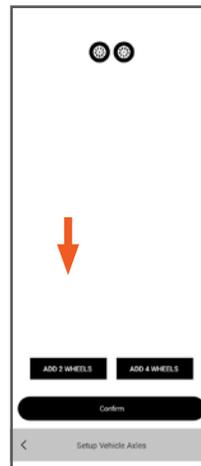
If an error is made during this process and the wrong sequence of wheels has been chosen, select 'Setup Vehicle Axle' to go back one screen to setup the vehicle and reconfigure.

If 'Confirm' button has been selected and a change is needed, the repeater will need to be reset. Refer to the 'Factory Reset Repeater' instructions on page 10.

Tap 'Setup Vehicle'



Select first row axle configuration



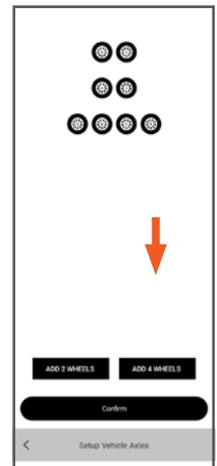
The scenario above shows a trailer application with one axle with one tire on each side

Select second row axle configuration (if applicable)



The scenario above shows a trailer application with two axles with one tire on each side

Select third row axle configuration (if applicable)  
Continue process for additional axles



The scenario above shows a trailer application with three axles with varying tire configurations.

### Step 3

With the 'Pair Sensors' screen active (shown to the right), have the stem sensors available to install on the tire stems and remove any existing stem caps from the tires.

**Note:** If using the lock nuts as a theft deterrent, add the lock nuts to the tire 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.

**A.** Tap the tire you'd like to pair.

**IMPORTANT:** Do NOT have the tire sensor screwed on prior to selecting the 'Connect' button.

**B.** Tap 'Connect'.

**C.** Screw on and fully tighten the tire sensor.

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

If the sensor is not seen within 90 seconds, unscrew the sensor from the tire 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, proceed to the next tire and repeat steps A through C until all sensors are paired.

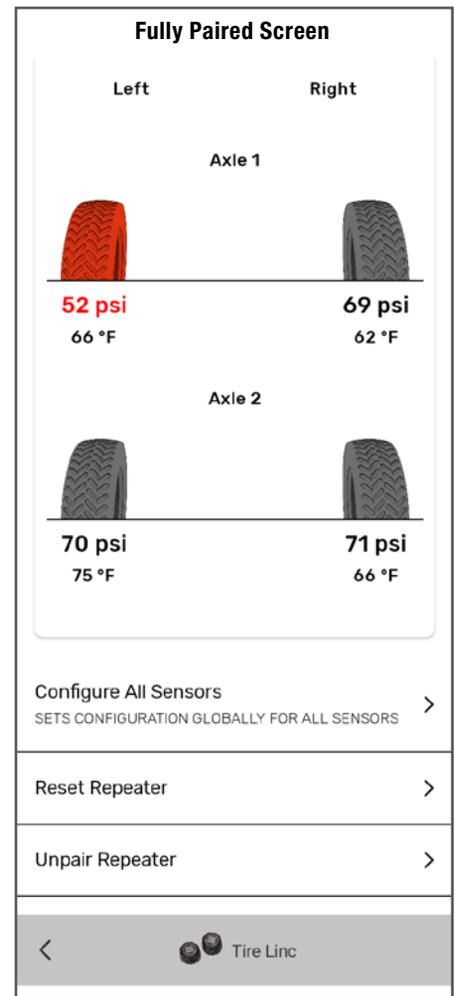
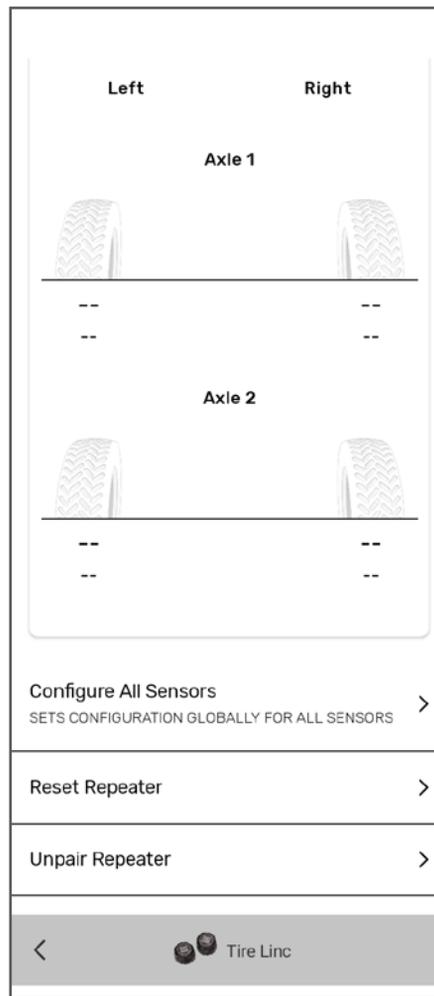
**Note:** When pairing has been completed, the high and low pressure limits of the tires are estimated at +/- 20%, respectively, from the last received sensor data.

Make sure sensors are not removed during the pairing process or the default pressure limit values will be incorrectly estimated. Pressure and temperature limits can be set manually through the app after pairing has been completed.

#### NOTICE

Data is transmitted to the repeater when stem sensors are under pressure when tires are:

- Moving/rotating, every one minute
- Not moving/not rotating, every 15 minutes
- In emergency scenarios (i.e. blowouts or dramatic leaks), reports very quickly



# OPERATION & TIRE CONFIGURATION

## Adjusting Tire Sensors

By tapping an individual tire, the app will display a 'Tire Configuration' page. Here, you can view details and tire sensor information and adjust tire sensor settings individually. To adjust all tire sensor settings at one time, select the 'Configure All Sensors' menu on the Tire Linc™ main screen.

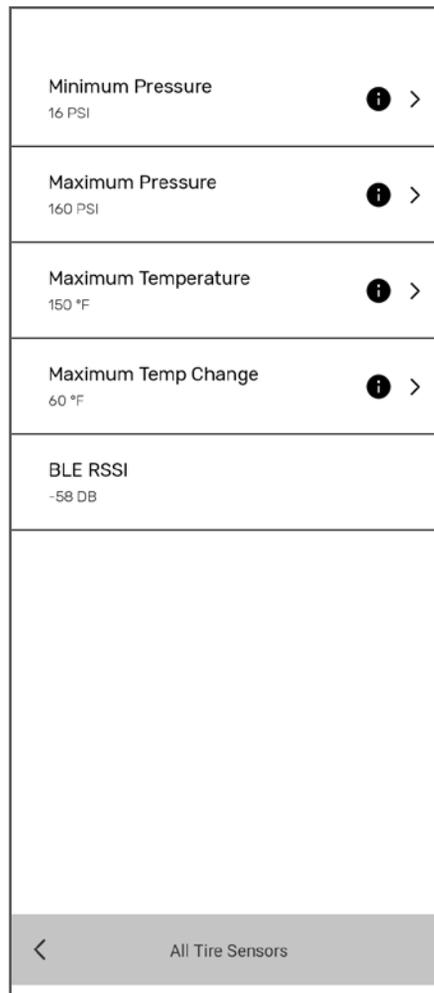
Below is a brief description of each configurable tire sensor settings:

**A. Minimum Pressure:** configure the desired minimum PSI before alert is activated (typically the lower PSI value listed on tires).

**B. Maximum Pressure:** configure the desired maximum PSI before alert is activated (typically the higher PSI value listed on tires).

**C. Maximum Temperature:** configure the maximum temperature before alert is activated. Information located on tire. The app defaults to 150°F.

**D. Maximum Temperature Change Limit:** posts the currently programmed maximum +/- temperature change limit for the selected tire. The app defaults to a 60°F.



# TROUBLESHOOTING

Issue	Problem Cause	Possible Solution
CTF button not working / FI LED not illuminating	Motion lockout; repeater or tire sensors in motion	1.) Ensure repeater is stationary for > 60 sec; ensure tire sensors are stationary for > 10 min 2.) Power on reset repeater by plugging in 12V or charging harness into power connector
	CTF button calibration is corrupted	Power on reset repeater by plugging in 12V or charging harness into power connector
	No power to repeater (12V harness connected)	Ensure 12V harness is not damaged; ensure power source is on
	Repeater battery low (12V harness not connected)	Battery may be below 25%; ensure the repeater is above 25% or fully charged either via OCAA or by charging for > 4hrs
	Repeater experiencing hardware fault	Contact customer service (potentially return repeater & exchange for new)
Pair mode error (cannot enter) or stalls mid-session	Motion lockout; repeater or tire sensors in motion	1.) Ensure repeater is stationary for > 60sec; ensure tire sensors are stationary for > 10min 2.) Power on reset repeater by plugging in 12V or charging harness into power connector
	Smart device connection to repeater is poor	Move repeater in a more ideal location using RSSI reading from app
	No power to repeater (12V harness connected)	Ensure 12V harness is not damaged; ensure power source is on
	Repeater battery low (12V harness not connected)	Ensure repeater is fully charged either via OCAA or by charging for > 4hrs
	In-app issue	1.) Close app (for android, force stop app via app settings) & reopen 2.) Report issue to customer service
Tire sensor missing fault occurs, but sensor is in range	Tire sensor connection to repeater is poor	Move repeater in a more ideal location using RSSI reading from app
	Tire sensor battery low	Replace tire sensor battery
Hardware fault LED pattern at LED	Repeater incorrectly reported hardware fault	Power on reset repeater by plugging in 12V or charging harness into power connector
	Repeater experiencing hardware fault	Contact customer service (potentially return repeater & exchange for new)
Trailer configuration incorrect	Repeater memory somehow corrupted	Perform factory reset on repeater
	Mistakenly entered wrong trailer configuration	Perform factory reset on repeater
	In-app issue	1.) Close app (for android, force stop app via app settings) & reopen 2.) Report issue to customer service
Tire sensor pressure low fault occurs, but pressure is at correct level	Tire sensor is screwed in loose at tire stem	Ensure tire sensor is tightly screwed onto tire stems; ensure lock nut is tightly screwed onto tire stem
	Tire sensor is faulted	Contact customer service (potentially return sensor & exchange for new)
Tire sensor reporting any other incorrect faults	Tire sensor is faulted	Contact customer service (potentially return sensor & exchange for new)
App cannot connect to the repeater	Repeater is asleep	Wake repeater by pressing CTF button; wake repeater by plugging in 12V or charging harness; wake repeater by moving repeater
	Smart device connection to repeater is poor	Move repeater in a more ideal location using RSSI reading from app; ensure latest version of OCAA is installed
	Repeater battery low (12V harness not connected)	Ensure repeater is fully charged by charging for > 4hrs

<b>Issue</b>	<b>Problem Cause</b>	<b>Possible Solution</b>
Repeater is loose when connected to mounting plate	Defective mounting plate	Contact customer service (potentially return mounting plate & exchange for new)
	Defective repeater enclosure	Contact customer service (potentially return repeater & exchange for new)
No power to repeater (battery only)	Repeater battery low (12V harness not connected)	Ensure repeater is fully charged by charging for > 4hrs
	Repeater experiencing hardware fault	Contact customer service (potentially return repeater & exchange for new)
No power to repeater (12V power)	No power to repeater (12V harness connected)	Ensure 12V harness is not damaged; ensure power source is on
	12V harness wiring is connected with wrong polarity to trailer 12V power	Inspect 12V harness connection to trailer 12V power and ensure polarity is correct
	Repeater experiencing hardware fault	Contact customer service (potentially return repeater & exchange for new)

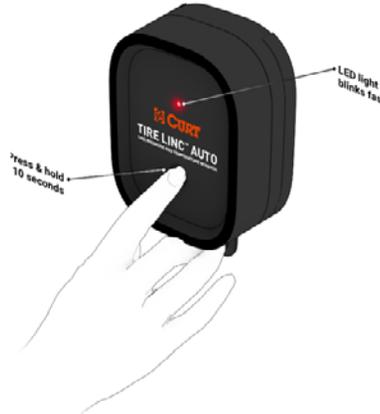
# FACTORY RESET REPEATER

## Step 1 - Wake Up Repeater



Tap CTF button to wake up the repeater and the LED will illuminate for 5 seconds.

## Step 2 - Begin Factory Reset



While the LED is still illuminated, quickly tap and hold the CTF button. **Do not release.** The LED will turn off and then begin flashing 4 times slowly, followed by a steady rapid flash. Once the rapid flash is seen, release the CTF button and tap it again to initiate reset.

## Step 3 - Complete / Verify Factory Reset



The LED will begin to flash 10 times as it completes the factory reset. When factory reset is complete, the LED will turn off.

Repeater reset process takes approximately 30 seconds to complete

Verify that the factory reset is successful by opening the Tire Linc app. The app will display a 'Setup Vehicle' button, allowing a user to add tires and begin the pairing process in step 1.

# CHANGE BATTERY

## Step 1

Remove the stem sensor to change the 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, proceed to follow the remaining steps to replace.



## Step 2

Remove the stem sensor from the tire 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 tire stem.



## Step 3

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.



## Step 4

Replace the battery with CR1632 3V lithium coin battery.

**Note:** Replacement batteries are not included.

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

