

# INSTALLATION MANUAL

# 52202

## 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	RVI Brake 4
2	1	Bullseye Wireless Monitor
3	1	Phantom Bracket Stop Plate
4	1	Breakaway System

## ⚠ WARNING

It is the end user's responsibility to verify that their specific vehicle make and model is approved for flat towing by the manufacturer.

Always consult the vehicle's owner's manual to fully understand flat towing procedures, limitations, and requirements.

Failure to follow manufacturer guidelines may result in severe vehicle damage and may void warranties.

Ensure compliance with all applicable state and local laws regarding flat towing. Regulations may vary by jurisdiction.

Improper towing can result in vehicle damage, legal consequences, or personal injury.

The use of RVibrake4 or any of its accessories in a manner inconsistent with these instructions could cause damage to the motorhome or towed vehicle and may cause serious injury or even death.

Never exceed the vehicle manufacturer's recommended towing capacity.

## Product Photo



## NOTICE

Visit [www.curtmfg.com](http://www.curtmfg.com) 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.

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

To help prevent damage to the product or vehicle, refer to the specified torque specifications when securing hardware during the installation process.

## 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: [warranty.curtgroup.com/surveys](http://warranty.curtgroup.com/surveys)

# PAIRING

## NOTICE

RVibrake4 does not come paired with the Bullseye Wireless Monitor.  
Pairing is not required for RVibrake4 to perform, but is recommended.

## Step 1

Power on the Bullseye Wireless Monitor by connecting it to the provided USB charger.

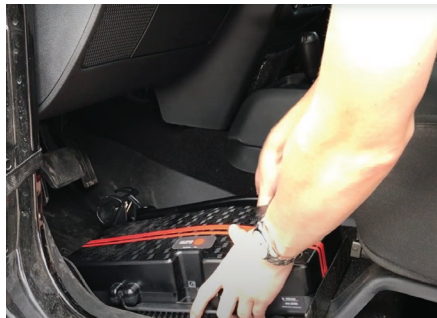
## NOTICE

See the Bullseye User Guide for more information.



## Step 2

Set RVibrake4 on the floor of the driver's seat of the towed vehicle, and attach the claw to brake pedal.



## Step 3

Plug in RVibrake4 to 12-volt outlet.

## NOTICE

RVibrake4 Audio Assistant will sound, prompting to press the Auto Position Button. Ignore the Assistant at this time, do not press the Auto Position Button, and continue with the pairing procedure.



## Step 4

In order to pair RVibrake4 to the Bullseye, the breakaway cable must be left unplugged from RVibrake4. Once paired it can be plugged in, or when the Audio Assistant it to be plugged in after pairing is complete.

## Step 5

On the Bullseye, tap the serial number that matches the number on the side of the RVibrake4.



# SETUP

## NOTICE

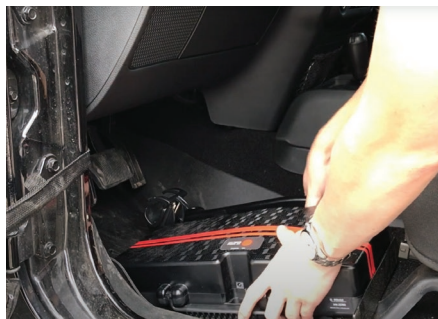
Before installing RVibrake4, make sure the towed vehicle is tow ready. Failure to do so can result in tire damage or excessive brake wear.

## Step 1

Adjust the driver's seat of the towed vehicle to the far back position and place RVibrake4 on the floorboard so the black brake pedal claw is directly in front of the brake pedal.

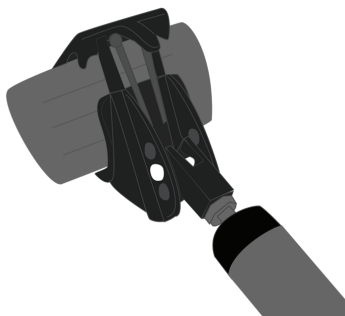
## NOTICE

Carpeted floor mats do not need to be removed, but thicker rubber mats may need to be removed prior to using RVibrake4 to provide an adequate pushing surface.



## Step 2

Leaving about an inch of space behind the brake and the rise in floorboard, attach the brake pedal claw to the brake pedal of the towed vehicle. The lower part of the claw should cradle the bottom of the brake pedal first, and then lift the upper part of the claw, that has the two fingers over the top of the brake pedal.

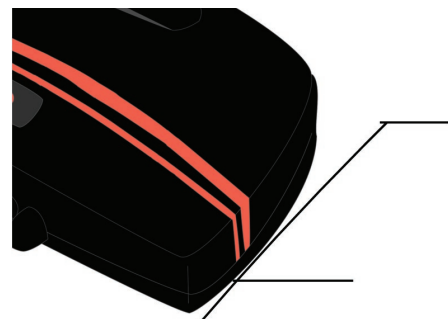


## Step 3

Slide RVibrake4 back towards the seat until RVibrake4 reaches the edge of the seat pan. The seat pan is the slightly elevated area of the floorboard where the driver's seat is mounted.

### NOTICE

If the towed vehicle has a flat floorboard with no seat pan to push against, please refer to the Phantom Bracket Installation Guide inside the Phantom Bracket package.



## Step 4

Plug RVibrake4's 12-volt adapter into a 12-volt receptacle in the towed vehicle. The compressor may or may not come on at this time.



## Step 5

The Audio Prompt will sound and instruct to "Push the Auto Position button." Follow the Audio Assistant's prompts and press the Auto Position button when asked. Press it a total of three separate times. The compressor may or may not come after each button press.

The Auto Position process automatically positions RVibrake4 in the seat pan of the towed vehicle, and removes vacuum stored in the towed vehicles braking reservoir.

### NOTICE

If the claw rotates off over the top of the pedal, use the lower hole in the back of the claw. If it rotates off under the pedal, then use the upper hole.

### WARNING

Never push Auto Position button unless the claw is connected to a brake pedal.



## Step 6

Finally, plug the Breakaway plug into RVibrake4.

If the towed vehicle becomes unattached from the motorhome, "BREAKAWAY" will display on the Bullseye Wireless Monitor and an audible alarm will sound. This means the Breakaway pin has been pulled on the junction box, RVibrake4 will apply the brakes on the towed vehicle, and it will be brought to a complete stop. The Audio Assistant will let you know that RVibrake is ready for towing.

### NOTICE

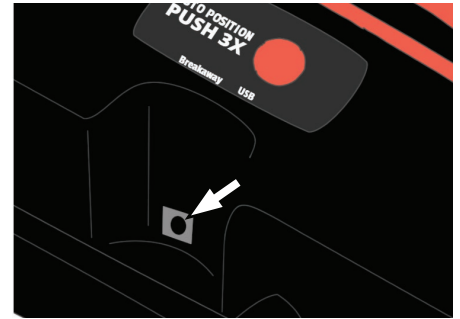
See the Breakaway Installation Guide for installation and operation.

### WARNING

Any time the towed vehicle's engine is started after setup of RVibrake4, the Auto Position process must be completed again to drain the vacuum in the braking reservoir. Unplug the 12-volt adapter, then proceed to the steps 4 and 5 of Setup.

### WARNING

Tire damage or excessive brake wear will result if the brake pedal is manually depressed with a hand or foot during or after the Auto Position process. The air cylinder will be improperly positioned causing the brake pedal to ride the brakes. If this happens, the Auto Position process must be completed again for proper setup. Unplug the 12-volt adapter and begin the setup process again from step 2.





# SETTINGS

## ⚠ CAUTION

Understand, heed, and obey all warnings and alerts from the Bullseye Wireless Monitor or audio prompts from RVibrake4. Failure to do so could result in brake damage.

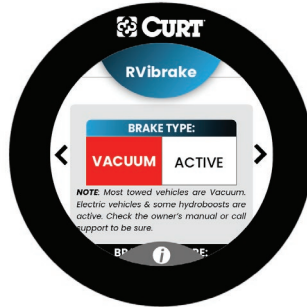
## NOTICE

RVibrake4 has three settings: Brake Type, Brake Pressure, and Sensitivity. To change these settings, use the Bullseye Wireless Monitor, which must first be paired with RVibrake4.

### Brake Type

RVibrake4 is designed to work with both Vacuum and Active assist brake towed vehicles. Most vehicles are Vacuum assist vehicles, which means the car uses a master brake booster to boost the pressure when braking. Active brake vehicles have constant electrical or hydraulic systems to assist in braking, whether the engine is running. Most hybrid and diesel vehicles use Active assist brakes.

To determine your vehicle's Brake Type, consult the Manufacturer's Owner's Guide or call Customer Service.



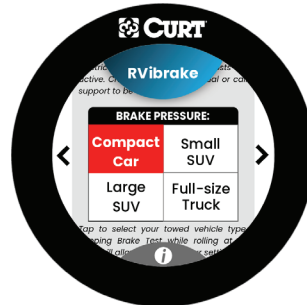
### Brake Pressure

In Vacuum Brake Type, choose the vehicle type that most applies to your towed vehicle.

In Active Brake Type, choose the PSI level for your car. Brake Pressure determines how hard RVibrake4 will push on the brake pedal. The lighter the car, the lighter the pressure. To ensure the correct Brake Pressure for your vehicle, see the Brake Test subsection of the Operation section in this manual.

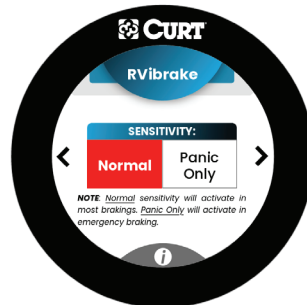
## NOTICE

If the towed vehicle is an SUV, always begin in the Small SUV setting. If Active brakes are selected, always begin at 5 PSI.



### Sensitivity

The "Normal" sensitivity setting is appropriate for most towing situations. Choosing the "Panic Only" setting means RVibrake4 will only participate in emergency braking.



# OPERATION

## How RVibrake4 Works

Once RVibrake4 is set up and the desired settings are selected, towing may commence.

The purpose of RVibrake4 is to take the towed vehicle's weight off the motorhome when braking and to reduce stopping distance. RVibrake4 is activated by an accelerometer that detects changes in inertia. Because RVibrake4 is proportional, the more inertia it sees, the harder it knows to push on the brake pedal in the towed vehicle.

The slope sensing software will keep RVibrake4 from being more sensitive downhill and less sensitive uphill, giving accurate braking at all times. This software keeps the brake pads from having excessive wear.

RVibrake4 will activate when there is enough inertia that it can be felt in the motorhome when braking.

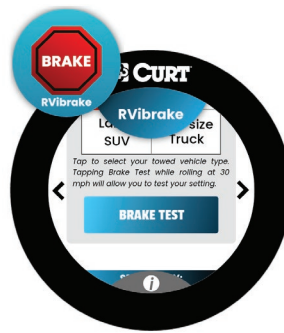
## Brake Test

A Brake Test needs to be performed to ensure there is the correct brake pressure for the towed vehicle. The Brake Test is performed in DRIVE MODE.

In the motorhome, accelerate to approximately 30 MPH, then lift off the accelerator. While coasting, press the Brake Test button on the Bullseye screen; a gentle pull on the motorhome should be felt.

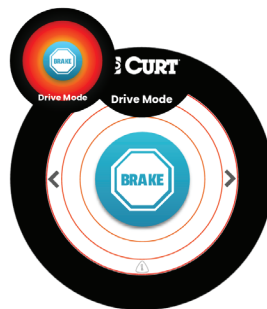
If a gentle pull on the motorhome is not felt, increase your Brake Pressure setting in the RVibrake4 settings app for greater pull and repeat the test.

If too much pull on the motorhome is felt, decrease the Brake Pressure or pick a smaller vehicle type for less pull. Repeat the test as needed until only a gentle pull is felt while coasting.



## Drive Mode

To leave the BRAKE settings, swipe left or right. From the Bullseye Dashboard, enter DRIVE MODE by pressing the Drive Mode icon to monitor the performance of RVibrake 4 while towing. When RVibrake 4 pushes on the pedal, the braking rings illuminate in DRIVE MODE. The harder RVibrake 4 pushes on the pedal; the more the braking indicator rings will grow.



# TROUBLESHOOTING

## How do I know RVibrake4 is working?

The Bullseye Wireless Monitor gives complete, continuous braking information — a glance at the screen assures that RVibrake4 is fully operational.

### NOTICE

If the Bullseye Wireless Monitor is not powered on, RVibrake4 will still continue to work.

## What if I think it's braking too hard or not hard enough?

Braking force, which is determined by the Brake Pressure setting, can be modified on from the Bullseye Wireless Monitor in the motorhome. Regardless of pressure settings, RVibrake4 will always respond with full pressure during an emergency stop.

## I have to disconnect my battery for towing. Can I power the RVibrake4 with the motorhome from my umbilical cord?

Never power the RVibrake4 off of the motorhome. If breakaway occurs, the RVibrake4 will no longer have power if connected solely to the motorhome for power. RVibrake4 should always be connected to the towed battery. If it is needed to disconnect the battery for towing or the stock 12V outlet in the towed vehicle is insufficient, a 12V Direct to Battery Kit and/or Towed Battery Disconnect is/are needed.

## Why do the tires on my tow vehicle squeal on the first 2-3 brakings of the day?

Most vehicles use engine vacuum (vacuum assist brakes) to assist in braking. This means that after the engine is turned off, 2-3 brakings of vacuum assist are stored in the master booster and must be depleted by the RVibrake4 in setup. If the engine runs during or after installation of the RVibrake4, then the master boost will store vacuum assist, causing excessive braking for the first brakings of the day. Always unplug the RVibrake4 whenever the tow vehicle's engine is running.

## Can I set up or change the settings of my RVibrake4 without the Bullseye Wireless Monitor?

Yes, should something happen to the Bullseye Wireless Monitor, press and hold the "Auto Position" button for 10 seconds. An audio prompt will sound. At this time, the BRAKE TYPE and BRAKE PRESSURE can be changed on RVibrake4. After making the selection, press and hold the "Auto Position" button for 3 seconds.

### NOTICE

The default setting is VACUUM:COMPACT CAR.

## What is the micro USB port on RVibrake4 for?

This is only for factory use to program units.



# COMPLIANCE

## Antenna Useage

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. FCC Radiation Exposure Statement to comply with FCC RV exposure requirements in section 1.1307, a minimum separation distance of 0.81 cm (0.3 inches) is required between the antenna and all persons. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

FCC ID:Z64-CC3100MODR1

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiver antenna.

Increase the separation between the equipment and the receiver.

Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

The Installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RV field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada's website <http://www.hc-sc.gc.ca/rpb>

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement

### NOTICE

Changes or modifications not expressly approved by CURT Manufacturing LLC could void the user's authority to operate the equipment.

## TOWING BASICS & SAFETY INFORMATION

For information on safely towing your trailer, visit [curtmfg.com/understanding-towing](http://curtmfg.com/understanding-towing).