



INSTALLATION MANUAL

52204

Level of Difficulty

Moderate

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	Towed Battery Charger Plus (TBC+)
2	5	Wire ties
3	4	Mounting screws

Tools Required

Drill bit, 1/8"	Drill bit, 15/32"
Drill bit, #25	Tap, #10-32

⚠ WARNING

Never exceed the vehicle manufacturer's recommended towing capacity.

⚠ CAUTION

Failure to connect the TBC+ according to the instructions may result in damage to your charge circuit or other electronics, in which CURT is not responsible.

Product Photo



NOTICE

Visit 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.

This installation requires:

- Drilling and hole enlargement

SAFETY INSTRUCTIONS

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

Product Registration and Warranty

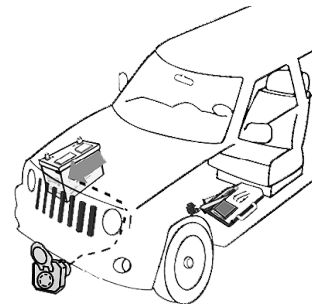
CURT stands behind our products with industry-leading warranties. To get copies of the product warranties, register your purchase or provide feedback, visit: warranty.curtgroup.com/surveys

INSTALLATION

MOUNTING THE TBC+

Step 1

Find a location near the towed vehicle's battery to mount the box. This location should allow you to easily route the duplex wire to the vehicle battery terminals.



Step 2

Use provided wire ties or screws to mount the box in place.

You can mount the box along the inner fender with the screws or on a wire loom with the wire ties.



CONNECTING TO THE TOWED BATTERY

Step 1

In your towed vehicle, remove the nut on the positive battery terminal, place the red cable ring terminal over the bolt, and re-tighten the nut back onto the bolt.

Remove the nut on the negative battery terminal, put the black cable ring terminal over the bolt, and re-tighten the nut back onto the bolt.

NOTICE

If there is no RV power going into the TBC+ for an hour or more, the LED will stop flashing.



Towed Battery LED States

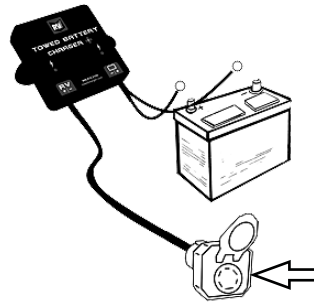
Flashing Blue	Above 12 volts
Flashing Yellow	Between 11-12 volts
Flashing Red	Below 11 volts
Solid Red	Error

CONNECTING TBC+ TO TOWED UMBILICAL CONNECTOR

Step 1

Locate the 6-pin connector near the front of your vehicle.

Route the TBC+ duplex wire labeled "RV" safely through the engine compartment, or fender, to the front of the vehicle where this connector is located.



Step 2

Identify the positive 12VDC terminal in the 6-pin connector where the wires come into the towed vehicle.

Strip the end of the red wire from the TBC+ and insert the wire into the 6-pin connector.

Securely tighten. You will need to ensure there is a constant 12VDC supply to this connector routed from your motorhome through your umbilical cord.



Step 3

Identify the ground terminal in the 6-pin connector where the wires come into the towed vehicle.

Strip the end of the black wire from the TBC+ and insert the wire into the 6-pin connector.

Securely tighten.

Step 4

Inspect for any loose or dangling wire, and secure as necessary with the wire ties provided.



PAIRING STEPS

COMMAND CENTER

⚠ WARNING

If you have to disconnect the towed vehicle's battery for towing, then it is recommended to disconnect the negative and positive terminal.

Failure to do so can cause damage on the towed vehicle.

NOTICE

TBC+ does not come paired with Command Center tablet and hub. The following steps will walk you through the one-time pairing process.

The following steps are for pairing to the Command Center tablet and hub. If you do not have the Command Center system, you can skip these steps.

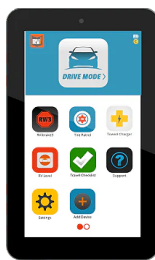
Pairing is not required for TBC+ to perform.

Step 1

Power on the Command Center tablet and hub. To power the tablet, press and hold the power button for 3 seconds. To power the hub connect it to the provided USB charger or press the power button.

NOTICE

See the Command Center User Guide for more info.



Step 4

Make sure the LED on the TBC+ is flashing by plugging in the umbilical to the RV and towed and start the motorhome's engine.

You can also start the engine of the towed and shut it back off.



Step 3

On the tablet, click Add Device from the tablet Dashboard.



Step 4

On the new screen, enable TBC+ by toggling the on/off slider to ON. At this time, the tablet will walk you through pairing.

Step 5

You will be asked to pair to TBC+ by placing your powered Command Center hub on or near the TBC+.

Once the TBC+ is found by the hub, you'll be asked to enter the TBC+'s serial number (S/N).

NOTICE

Tablet software 1.7.7 and older will ask you to pair with QR code. We recommend updating to 1.8.0 or newer.

BULLSEYE WIRELESS MONITOR

⚠ WARNING

If you have to disconnect the towed vehicle's battery for towing, then it is recommended to disconnect the negative and positive terminal.

Failure to do so can cause damage on the towed vehicle.

NOTICE

TBC+ does not come paired with Bullseye Wireless Monitor. The following steps will walk you through the one-time pairing process.

Pairing is not required for TBC+ to perform.

Step 1

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

NOTICE

See the Bullseye User Guide for more info.



Step 2

Make sure the LED on the TBC+ is flashing by plugging in the umbilical to the RV and towed and starting the motorhome's engine.

You can also start the engine of the towed and shut it back off.

Step 3

On the Bullseye, tap the serial number that matches the number on the side of your TBC+.

TROUBLESHOOTING

Step 1

You will need to ensure that there is a constant 12V supply to the 6-pin connector on the bumper of your motorhome.

Step 2

If there is a constant 12V supply greater than the voltage of the towed battery, the motorhome engine is running, and the umbilical is plugged into both the motorhome and the towed vehicle, the RV LED on the TBC+ will flash. If it is not flashing, check all terminal connections, the fuse, or the 12 Volt supply from your motorhome.

Step 3

For vehicles with rear mounted batteries, consult your owner's manual to find the jump start lug and appropriate ground source for completing step 2.

Breakaway LED States

Green: Breakaway is plugged in, connected to RVibrake3, and working with good signal strength.	Yellow: Breakaway is plugged in, connected to RVibrake3, and working with low signal strength.	Flashing Red: Breakaway is plugged in and a Breakaway is detected.
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Compliance Statements

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s).
Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.