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Universal brake monitor receiver

To be installed in the motorhome. Part number 9510

Installation instructions and user guide



Time Tested • Time Proven

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FCC Compliance Statement

Warning: Changes or modifications to these devices not expressly approved by Roadmaster, Inc. could void the user's authority to operate the equipment.

NOTE: 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. 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. 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 receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into 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.

FCC Radio Frequency Exposure

This equipment complies with radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites d'exposition aux radiations dans un environnement non contrôlé. Cet équipement doit être installé et utilisé à distance minimum de 20 cm entre le radiateur et votre corps. Cet émetteur ne doit pas être co-localisées ou opérant en conjonction avec tout autre antenne ou transmetteur.

Industry Canada License Exempt

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.

FCC ID: RGY-9510
IC: 22290-9510
FCC ID: RGY-9520
IC: 22290-9520

THESE DEVICES COMPLY WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS.

(1) THESE DEVICES MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THESE DEVICES MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

Specifications

Frequency: 923 MHz
Voltage: 12 volts
Sleep current: 30 mA

All illustrations and specifications contained in this document are based on the latest information available at the time of publication. ROADMASTER, Inc. reserves the right to make changes at any time, without notice, in material, specifications and models, or to discontinue models.

Installation and operation

Note: some vehicles will require a supplemental brake light switch (sold separately). If your vehicle's brake light switch doesn't output a 12-volt signal when the car is in 'tow' mode, you must purchase and install a supplemental brake light switch kit. To learn more visit www.roadmasterinc.com or call 800-669-9690.

Note: if the supplemental braking system to be monitored is a Roadmaster InvisiBrake®, check the serial number before proceeding with the installation. If it's less than 21603, you must install an optional adaptor, part number 8700-9530.

Installation

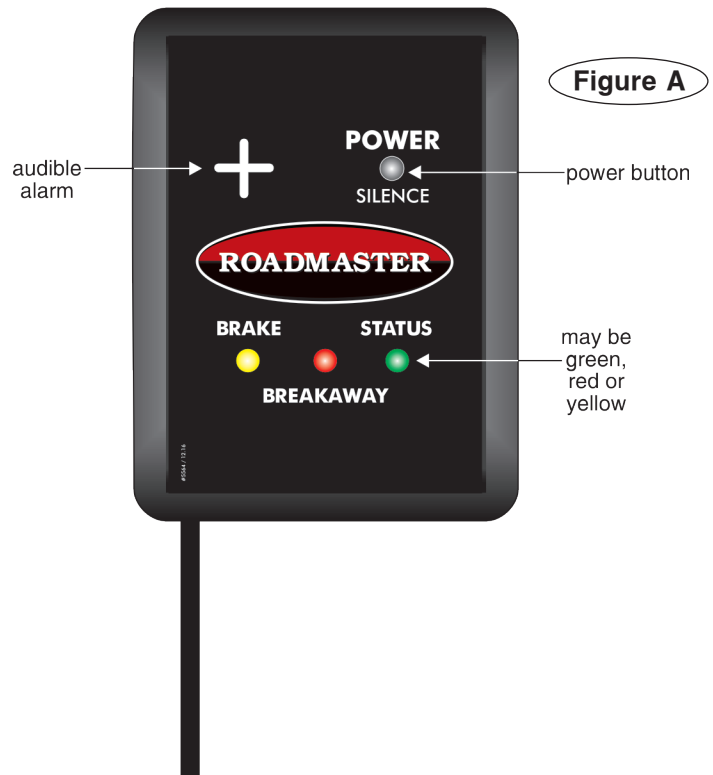
1. Plug the motorhome monitor into any 12V+ source in the motorhome, and attach it with the Velcro strips at any location where it can be seen by the driver.

Operating the monitor

1. Check the "Status" light (Figure A):
 - If the light is solid green you're ready to tow.
 - If the light is alternately flashing red and green, it's not receiving a signal. Pump the towed vehicle's brake pedal – the light should now be solid green.
2. To turn the monitor off, press the "Power" button. (The monitor will always turn off after a few minutes when the motorhome's engine is turned off.)

How to pair the monitor and transmitter

1. Power on the motorhome monitor.
2. Depress and hold the "Power" button on the motorhome monitor for about five seconds. The "Status" light will flicker yellow.
3. Release the "Power" button. The "Status" light on both the towed vehicle transmitter and the motorhome monitor will start flashing yellow. The units are now in pairing mode.
4. Depress and release the brake pedal in the towed vehicle. The lights will stop flashing. The transmitter and monitor are paired.



RV Monitor alerts

- **The “Brake” light is yellow.**
The “Brake” light will illuminate yellow whenever the towed car’s brakes are on.
- **The “Status” light is solid green.**
The system is ready for towing.
- **The “Status” light is flashing green.**
The transmitter in the towed car is asleep. If the system does not detect any braking activity, it will eventually go to sleep.
- **The “Status light is flashing red and green.**
The RV monitor isn’t receiving a signal from the towed vehicle. There are three solutions –
 - 1) **If you are hooked up for towing** – Pump the towed vehicle’s brake pedal. The light should now be solid green.
 - 2) **If the towed vehicle is out of range** – Press the “Power” to turn off the RV monitor. Conversely, you can just ignore it and it will eventually go to sleep and stop flashing.
- **The “Status” light is yellow.**
The towed vehicle’s battery is low.
- **The “Status” light is off.**
There are three scenarios that can cause this –
 - 1) The monitor “Power” switch has been turned off.
 - 2) It has gone to sleep.
 - 3) There is no 12-volt power.

- **The “Status” light is flashing bright red; the “Brake” light is flashing yellow; accompanied with an audible alarm.**
 • **The “Status” light is flashing bright red; the “Break away” light is solid red; accompanied with an audible alarm.**
 The monitor is reporting a break away signal from the towed vehicle. Pull over as soon as it is safe to do so and investigate.
 The towed vehicle’s brakes have been on continuously for 30 seconds (for example, at a long stop light). Pump the motorhome brakes to reset the 30 second timer.
 Alternatively, press the “Silence” button once – the timer will now alarm only after 60 seconds of continuous braking.
 If the “Silence” button is pressed again after the alarm at 60 seconds, it will reset the timer to only alarm after 90 seconds. This can be extended once more to 120 seconds.
Note: You cannot push the button to reset the timer to 30 seconds once it has reached a delay of 120 seconds. To factory reset the timer to 30 seconds, unplug the harness from the transmitter in the towed vehicle. Then, reconnect the harness while holding down the power button. This will reset it to 30 seconds.

Caution

If the monitor alerts you to extended braking when you are not braking the motorhome, the brakes in the towed vehicle are being applied inappropriately. Immediately pull over and investigate to prevent brake damage.

RV monitor color code chart

Status Light	Brake Light	Breakaway Light	Color	Description
●			solid green.....	The system is ready for towing.
●			flashing green.....	The system is asleep.
●●			flashing red and green	The monitor isn’t receiving a signal from the transmitter.
○			“status” light is off	The “Power” switch has been turned off.
●			yellow	The towed vehicle’s battery is low.
●	●		flashing red and yellow	Extended braking alert 🎵 (includes an audio alert)
●		●	solid red and flashing red ...	A break away is in progress. 🎵 (includes an audio alert)
	●		solid yellow.....	The towed vehicle’s brakes are being applied.