



Electro-Mechanical Vertical Leveling System Installation Instructions

Thank you for purchasing a Bullseye Vertical Leveling System. This manual will guide you through the easy installation process.

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The configuration of coach chassis and vehicular components varies between manufacturers. This installation manual is a generalized approach to installing our product.

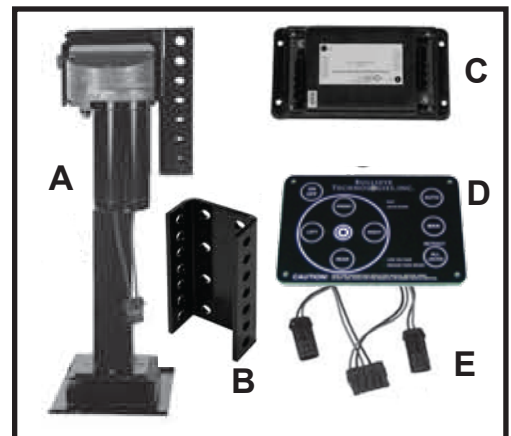
Please note your installation application may vary. If you need to speak with someone in person about your installation procedure, please contact the nearest authorized installation dealer or our customer service line at 877-753-0102.

What Your Kit Contains

When opening your kit, make sure it contains the following components:

- A: (4) Four Vertical Leveling Legs
- B: (4) Four Mounting Brackets
- C: (1) One Controller Module
- D: (1) One Touch Pad Panel
- E: (1) Wire Harness Package: Front Harness, Rear Harness, Touch Pad Connecting Wire, Ignition and Parking Brake Wires. Ground wire and 4-gauge battery wire not included.

If any of these components are not included in your system, please call the Bullseye customer service line at 877-753-0102.



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Please review all procedures, read and understand the precautions listed in this manual

Please read the entire installation procedure before beginning the installation. It is best to visually run through the process in its entirety before you begin.

NOTE

ON A GAS POWERED CHASSIS, DO NOT MOUNT THE REAR LEGS MORE THAN 12" BEHIND THE REAR SPRING HANGER.

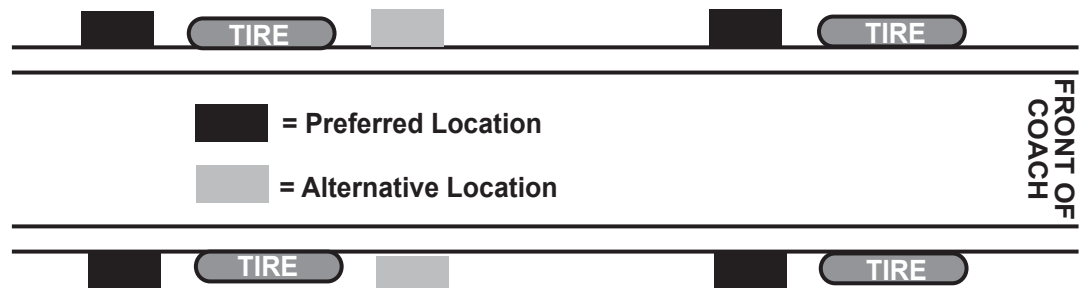
Finding The Proper Location

STRAIGHT LEG LOCATION:

Under the coach you will see the construction of the chassis super structure includes two parallel frame rails. The preferred rear mounting location is along the exterior side of the frame rail behind the rear axle, as close as possible and no more than 12" behind the rear spring. The ideal front location for the leveling legs is along the exterior side of the frame rail, behind the front axle.

Alternate locations are possible, depending on the frame configuration. Make sure the legs do not interfere with the steering or operation of the coach. For lighter-duty chassis, position the legs as close to the chassis cross member as possible.

For 5th wheel installation, the front leveling legs should be installed immediately behind the landing legs and the rear leveling legs should be installed behind the axle.



■ = Preferred Location

■ = Alternative Location

TOUCH PAD PANEL LOCATION:

The touch pad can be located anywhere that provides easy access during operation. The best locations are usually in the dash board if space is available or, as an alternative, below the dash or in a side panel.

For 5th wheels, the touch pad can be located in an exterior compartment.

CONTROLLER MODULE LOCATION:

The controller module should be located close to the middle and center of the coach for the greatest accuracy. The control module **MUST NOT BE EXPOSED** to weather. Placement in a cargo compartment is recommended.

Leveling Leg Installation

After determining the leveling leg location, place the leg with brackets attached next to the frame to make sure it will fit properly and not interfere with coach operation. Some modification to the coach may be necessary.

1. Mark for bracketing
2. Bolt or weld on bracketing, making sure is level and *perpendicular*
3. Attach leg with supplied bolts
4. Be sure to tighten bolts to secure leg

Note: We Recommend that welding be done by a professional

When mounting brackets on an "I" beam or the *Inside of a "C" Channel*, be sure to add bracing for rigidity.

CAUTION

USE ONLY THE WIRE SUPPLIED BY BULLSEYE TECHNOLOGIES AS PART OF THE INSTALLATION KIT. USE OF AN OTHER WIRE OR CONNECTOR WILL VOID THE WARRANTY.

CAUTION

WHEN ROUTING, SECURING AND WIRING, BE SURE THESE ITEMS ARE NOT EXPOSED TO ENGINE EXHAUST OR ANY OTHER HIGH TEMPERATURE COMPONENT OF THE VEHICLE. ANY HOSE OR WIRING SHOULD BE SITUATED A MINIMUM OF 12" FROM ANY HEAT SOURCE. IF 12" OF DISTANCE IS NOT POSSIBLE, IT WILL BE NECESSARY TO MAKE A HEAT SHIELD/BAFFLE TO PROTECT HOSES AND WIRING. THE HEAT SHIELD SHOULD BE COMPOSED OF AN APPROPRIATE, NON-FLAMMABLE, HEAT RESISTANT MATERIAL.

CAUTION

DO NOT CONNECT BATTERY/POWER TO AUTO-CONTROL MODULE UNTIL ALL OTHER CONNECTIONS AND LEGS ARE SECURE.

NOTE

MOST NEW CLASS "A" MOTORHOME CHASSIS ARE EQUIPPED WITH AN AUTOMATICALLY APPLIED PARK BRAKE SYSTEM. THESE SYSTEMS AUTOMATICALLY APPLY THE PARKING BRAKE WHEN THE TRANSMISSION IS SHIFTED INTO "PARK".

Touch Pad Installation

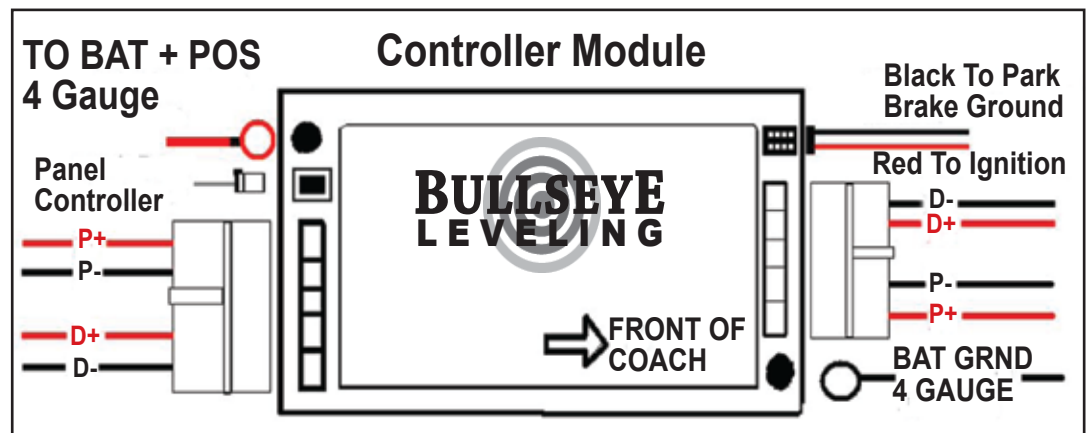


Inspect the location for the touch pad and ensure that there is adequate space for the touch pad and the multi-wire cable connections. The touch pad should fit snugly into this opening. Determine where the wires are to be routed and look for any pre-existing holes that can be used. If no hole is found, drill a 1/2" hole through the fire wall near the selected installation site. Route the wire through the hole to the touch pad location.

Make sure to seal any holes that were drilled from the interior to the exterior of the vehicle with a waterproof sealant, following the completion of the installation.

Controller Module Installation

The controller should be mounted *as close to the middle and center* of the coach for greater accuracy. Keep in mind the controller module **Must Not Be Exposed** to weather. Storing in a cargo compartment is recommended. Be sure to secure the controller with the screws that are provided.



A 60-amp fuse between the Controller Module and the Positive Battery connection is recommended

BATTERY POWER SHOULD COME FROM THE CLOSEST BATTERY.

Bullseye systems are equipped with a park brake interlock. The interlock is designed to allow operation of the system only when the vehicle parking brake is set.

In the chassis wiring harness, identify the park brake signal wire. The park brake switch and signal wire will usually be found on, or near, the park brake pedal assembly. This wire will show ground or 12-volts positive when the park brake is applied. The type of signal will vary from type of chassis to another. Once you have located the appropriate wire, determine the type of signal by using a volt-ohm meter while engaging the park brake. If a positive signal is present the use of a relay is required.

**WARNING**

DO NOT USE THE LEVELING SYSTEM AS A LIFT FOR CHANGING TIRES OR WORKING UNDER THE VEHICLE.

**WARNING**

WHEN EXTENDING THE LEGS, NEVER LIFT THE WHEELS BEYOND GROUND CONTACT. THIS OVERRIDES THE PARKING BRAKE AND THE VEHICLE COULD POSSIBLY ROLL FORWARD UNEXPECTEDLY, COMING OFF THE LEGS. THIS COULD CAUSE SERIOUS INJURY OR EVEN DEATH.

**CAUTION**

DO NOT USE THE LEVELERS AS AN EMERGENCY BRAKE.

DO NOT USE LEVELERS ON ICY OR SLICK SURFACES.

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Calibrating Your System

The park brake must be set and the ignition on for the Bullseye Leveling System to operate.

1. Make sure the park brake is on
2. Make sure the coach is running, supplying proper current
3. Turn on the power on/off switch.
4. Visually confirm that all leveling legs are retracted. If they are down, push the "Retract All" button on the touch pad
5. Push the "Manual" button, all legs should start to lower.
6. Once all jacks are touching the ground, use the "Front", "Left", "Right", and "Rear" buttons to adjust the coach to the desired level position for regular use (it is recommended to level the coach at the center of the coach or on a counter top using a 2' to 4' bubble level).
7. Once you find the preferred level position, turn off the power and within 20 seconds push "Front" button 5 times, then press "Rear" button 5 times (there should be a flash of all lights at this point), then push the "Retract All" button 3 times to lock the setting.
8. Turn touch pad back on and push "Retract All" button.
9. Push the "Auto" button and the system will operate normally.

For a more in-depth guide on calibrating, please visit www.bullseyeleveling.com and go to downloads to see the owners manual or calibration guide.

Warranty

Bullseye Technologies, Inc. (BTI) warrants to the original purchaser that your purchased system is free from defects in material and workmanship for 3 (three) years from the date of purchase. BTI's obligation under this warranty is limited to repair or replacement of defective parts returned to BTI.

This warranty gives you specific legal rights including other rights that may vary from state to state. Some states do not allow limitations on implied warranties and exclusion or limitation of incidental or consequential damages, therefore the limitations and exclusions contained herein may not apply to you.

This warranty does not apply to products or parts that have been subject to abuse, accident, alteration, improper installation/repair, inadequate maintenance or deterioration due to normal wear. These discrepancies are at the opinion of BTI. This warranty is in lieu of all other express or implied warranties. BTI neither assumes nor authorizes any other person to assume liability for warranty claims not provided herein.

Any questions regarding warranty claims should be directed to your dealer or contact BTI. Address all correspondence to: PO Box 388, Logansport, IN 46947 or by contacting our customer service line at 877-753-0102.

PLEASE NOTE: It is important to read and understand this manual thoroughly before initiating any installation of the leveling system. BTI assumes no liability for damages or injuries resulting from the improper installation or operation of this system.