



SCHWINTEK BED TILT OEM INSTALLATION MANUAL

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Introduction

The Schwintek Bed Tilt System is a rack and pinion system powered by a high torque 12V motor that makes it easy to get comfortable in bed with just the flip of a switch. As an added benefit the Bed Tilt can also provide more accessible space, even when the slide room is retracted. With the bed tilt in the raised position, you can easily reach bedroom storage that would otherwise be blocked.

The system is designed and rated to be actuated with no more than 800 lbs (363 Kgs) of total weight. Using the system with weights higher than recommended will void the warranty and will cause damage to the system.

For information on the assembly or individual components of this product, please visit:

<https://support.lci1.com/schwintek-bed-tilt>.

NOTE: 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.

Safety

Read and understand all instructions before installing or operating this product. Adhere to all safety labels.

This manual provides general instructions. Many variables can change the circumstances of the instructions, i.e., the degree of difficulty, operation and ability of the individual performing the instructions. This manual cannot begin to plot out instructions for every possibility, but provides the general instructions, as necessary, for effectively interfacing with the device, product or system. Failure to correctly follow the provided instructions may result in death, serious personal injury, severe product and/or property damage, including voiding of the Lippert limited warranty.

NOTE: Lippert recommends that the following inspections, troubleshooting, component replacement, and verifications be completed only by certified RV technicians.

WARNING

Failure to follow the instructions provided in this manual may result in death, serious injury, unit damage, or voiding of the component warranty.

WARNING

The coach MUST be supported per manufacturer's recommendations before working underneath. Failure to do so may result in death or serious injury.

WARNING

Always wear eye protection when performing service or maintenance to the vehicle. Other safety equipment to consider would be hearing protection, gloves and possibly a full face shield, depending on the nature of the service.

CAUTION

Moving parts can pinch, crush or cut. Keep clear and use caution.

Resources Required

- Cordless or Electric Drill or Screw Gun
- Appropriate Drill Bits
- Appropriate Drive Bits
- Tape Measure
- #10 - 20 x 1 1/4" Screws (Not Provided)

Installation

Racks

1. Make sure racks (Fig. 1) are parallel to each other.
2. Mount racks onto a solid surface (Fig. 2) under the bed with #10 - 20 x 1 1/4" screws, filling every hole in the rack (Fig. 3).
3. The back of the rack should be 1/2" away from the outside wall of the bed slide (Fig. 4) to make sure there is enough space for the bed tilt to fully operate.

Fig. 1

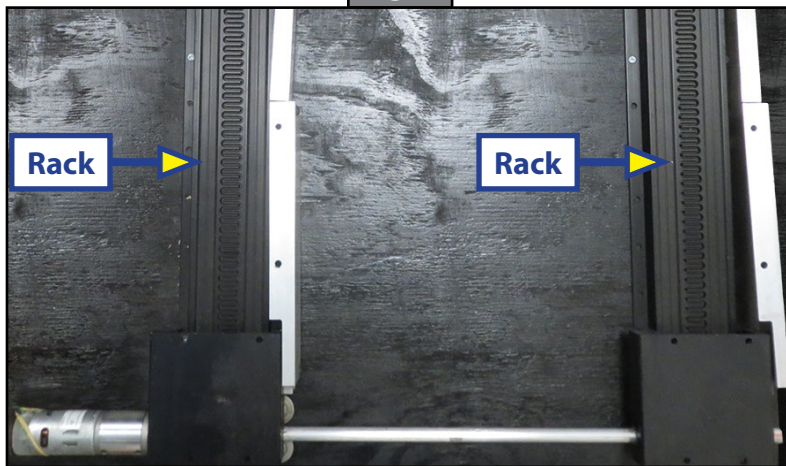


Fig. 2

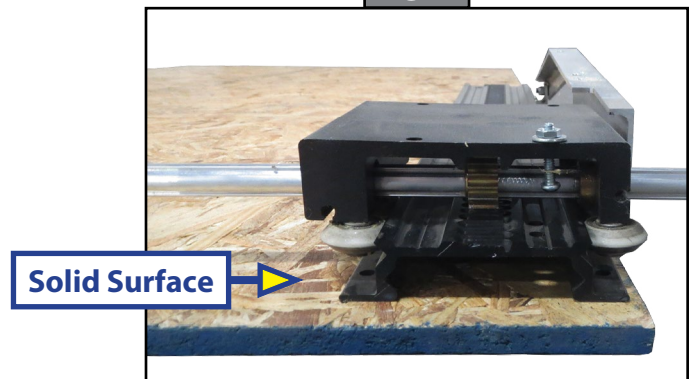


Fig. 3

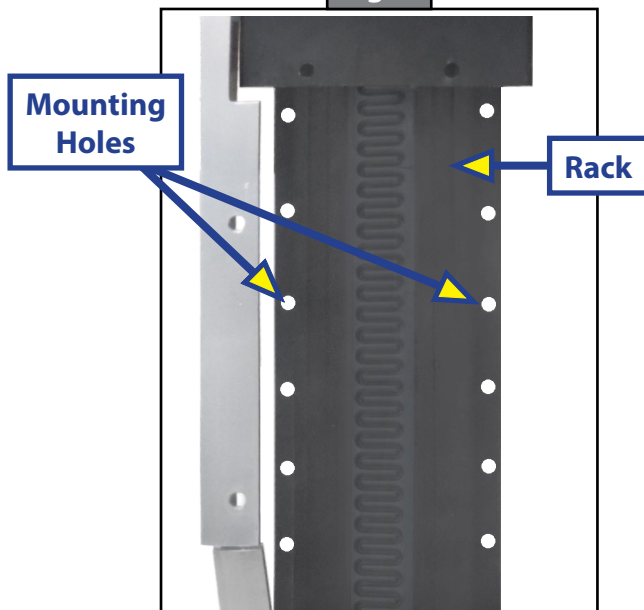


Fig. 4



Bed Support

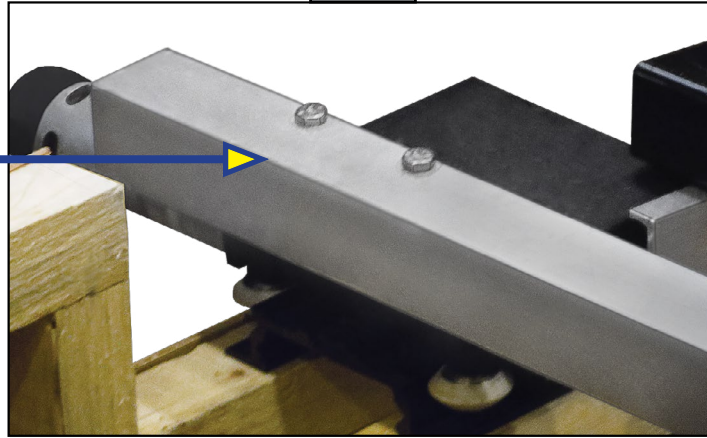
Lippert recommends mounting a 2" x 2" square aluminum tube across the bed tilt to stabilize the assembly (Fig. 5).

NOTE: Tubing is not provided.

1. Bolt head (Fig. 6A) and foot (Fig. 6B) plywood pieces to the mechanism to provide the platform for the mattress (Fig. 6 and 7).

Fig. 5

Square Tubing
(not provided)



2. Measure the space between the head and foot. There should be a minimum 3 1/2" gap between the two pieces of plywood when the bed tilt is extended to ensure that they do not touch when retracted (Fig. 6).

Fig. 6

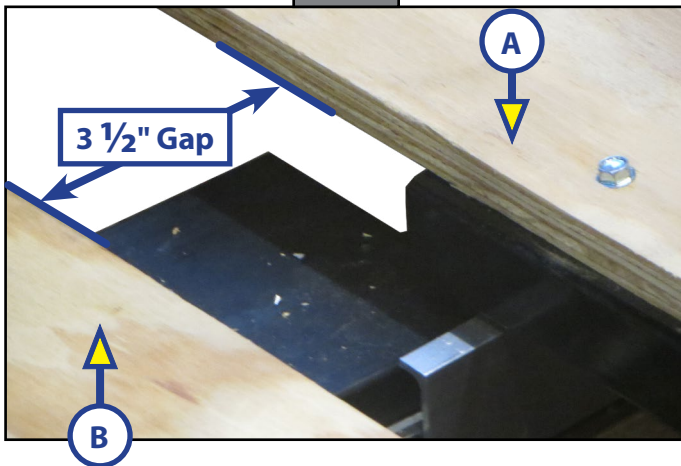


Fig. 7



3. Place the mattress on top of the plywood once it is secure (Fig. 8).
4. Place strap over the mattress to secure it in place.

Fig. 8



Calibration

Following are calibration instructions for Lippert Hall Effect Bed Tilt Control. The controller is not shipped in calibration mode.

To enter calibration mode from normal mode, hold down the configuration button for five seconds (Fig. 9A).

To calibrate the steps:

1. Press/Hold the Configuration button until there is a flashing green LED.
2. Flashing green LED (Fig. 9B) indicates that the downward limit needs to be set.
3. Use the wall switch (Fig. 10A) to move the unit to its desired downward position.
4. When at the desired downward position, press the configuration button (Fig. 9A).
5. The downward limit is set.
6. Flashing red LED (Fig. 9C) indicates that the upward limit needs to be set.
7. Use the wall switch (Fig. 10B) to move the unit to the desired top position.
8. When at the desired top position, press the configuration button.
9. The top limit is set.
10. Once the top limit is set, both red (Fig. 9C) and green (Fig. 9 B) LEDs will blink simultaneously for a moment.
11. Both limits have been set successfully.

Fig. 9

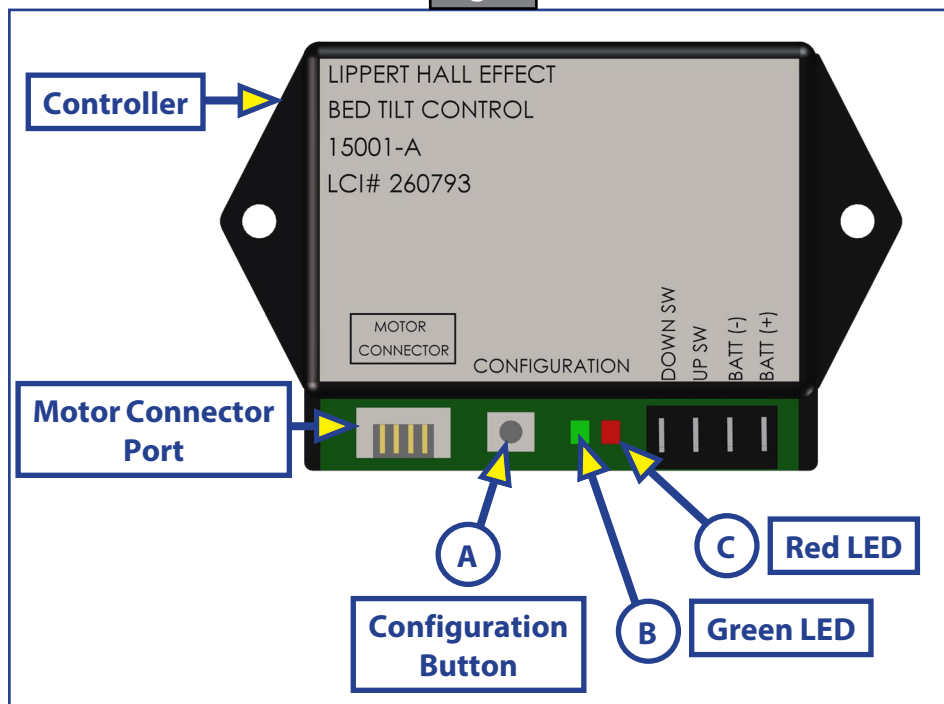
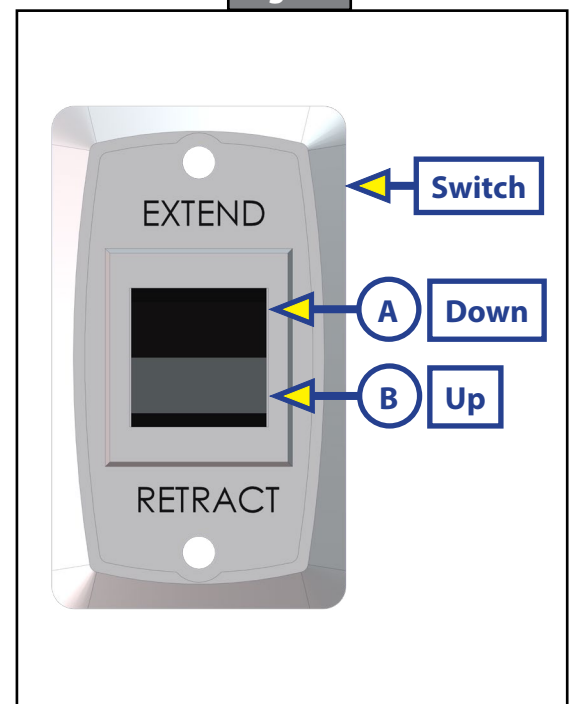


Fig. 10



Troubleshooting

- 1. Locate controller (Fig. 11).
- 2. Activate switch.
- 3. Look for the status LEDs on the controller to light while switch is activated.
- 4. If status LEDs do not light, and no error codes are present, check the following:
 - A. Check the battery for 12V DC.
 - B. Check for 12V DC in to controller (Fig. 11A and 11B).
 - C. Check for 12V DC at switch connection on both extend and retract (Fig. 12).
- 5. If error codes are present, refer to Error Code Chart.

Fig. 11

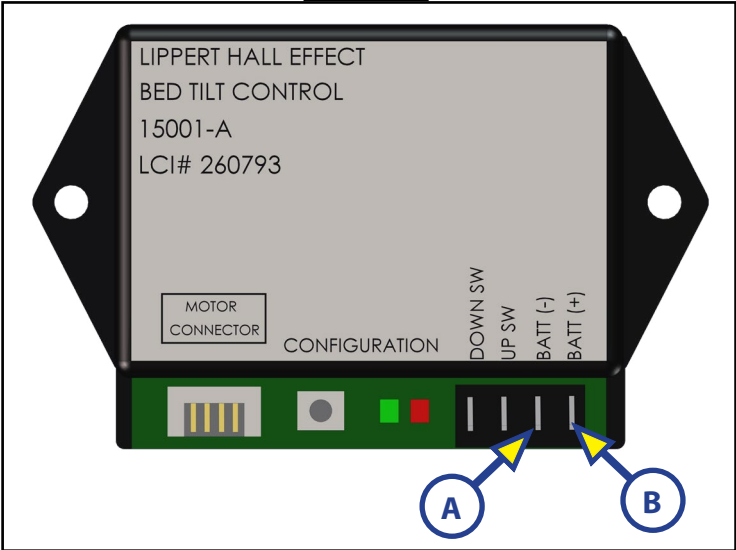
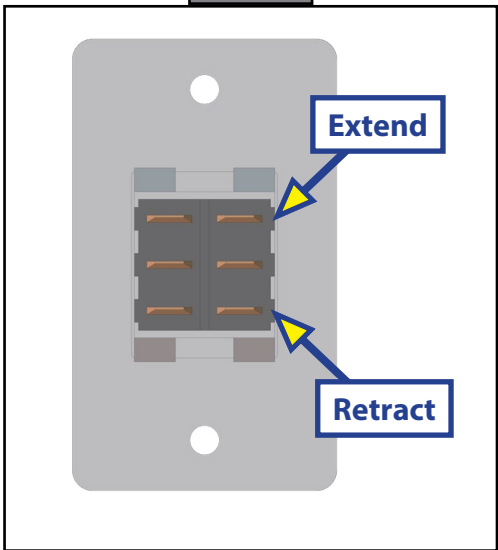


Fig. 12



Error Code Chart

For motor-specific faults, the green LED will blink once and the red LED will blink from two to nine times depending on the error code. Once the error code has been cleared, the control may flash both the red and green LEDs together. Press and release the mode button to calibrate the upward and downward stops.

Red LED Error Code	Name	Description
2	Motor Short Circuit	Motor or wiring to motor has shorted out.
3	Low Battery	Battery capacity low enough to drop below 6 volts while running.
	Battery Drop Out	Voltage below 8 volts at start of cycle.
4	High Battery	Voltage greater than 18 volts.
5	Excessive Motor Current	High amperage.
8	Hall Signal Not Present	Encoder is not providing a signal, which is usually a wiring problem.
	Wire Short Between Controller and Motor	
9	Hall Power Short To Ground	Power to encoder has been shorted to ground, which is usually a wiring problem.
When an error code is present, the board needs to be reset. Energizing the extend/retract switch resets the board. Energize the extend/retract switch again for normal operation.		

Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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