



SCHWINTERK BED TILT

OEM INSTALLATION MANUAL

L I P P E R T
C O M P O N E N T S[®]

TABLE OF CONTENTS

Safety Information	2
Resources Required	3
Installation	3
Racks	3
Bed Support	4
Calibration	5
Troubleshooting	6
Error Code Chart	6
Notes	7

Safety Information

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.

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

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

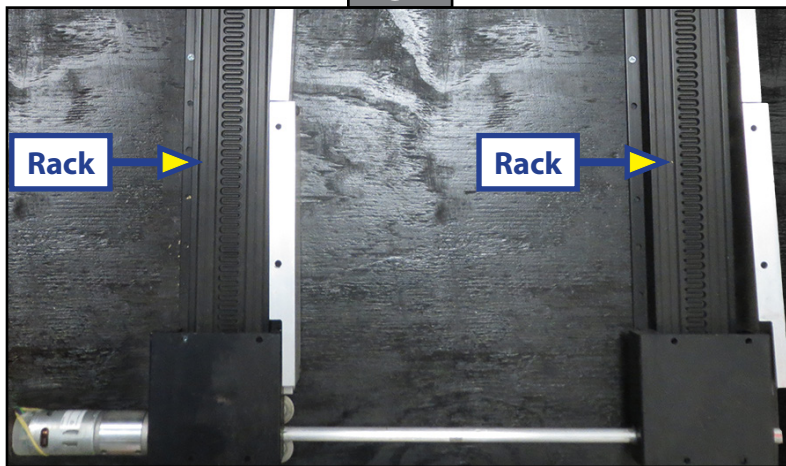


Fig. 2

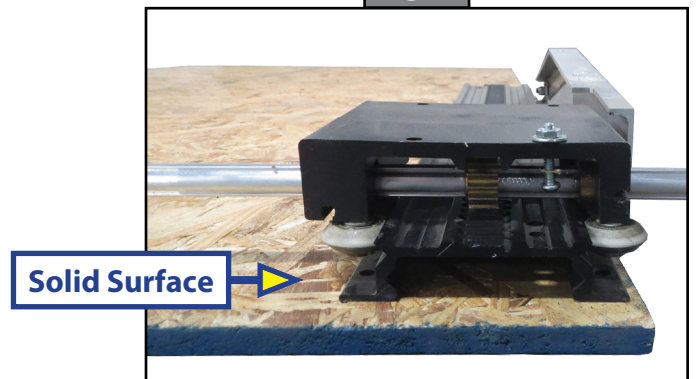


Fig. 3

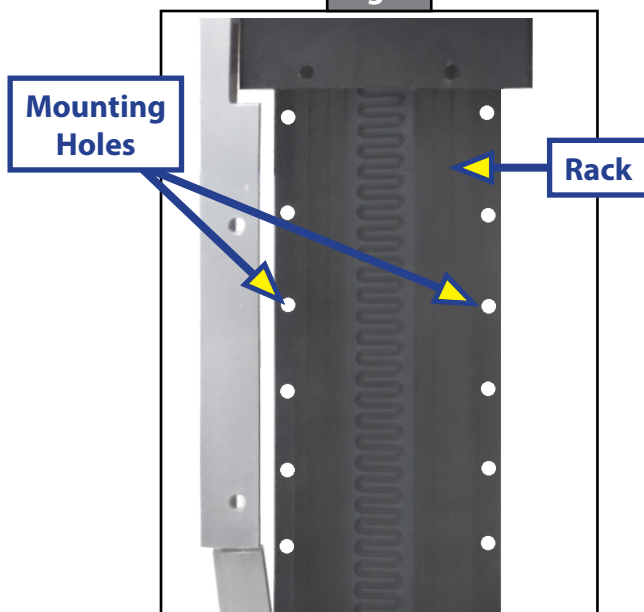


Fig. 4



Bed Support

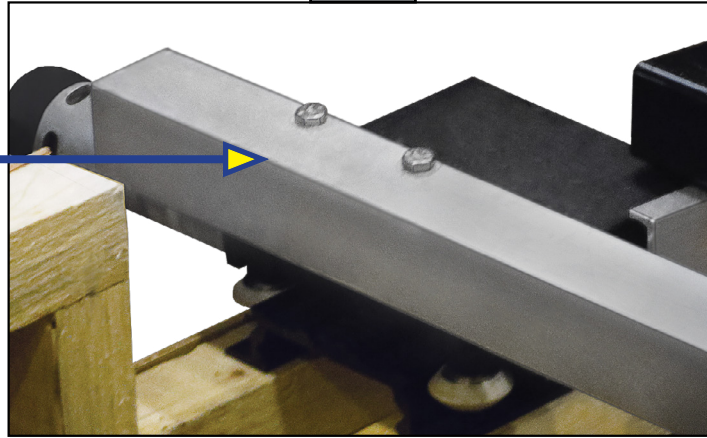
LCI recommends mounting a 2" x 2" square aluminum tube across the bed tilt to stabilize the assembly (Fig. 5).

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

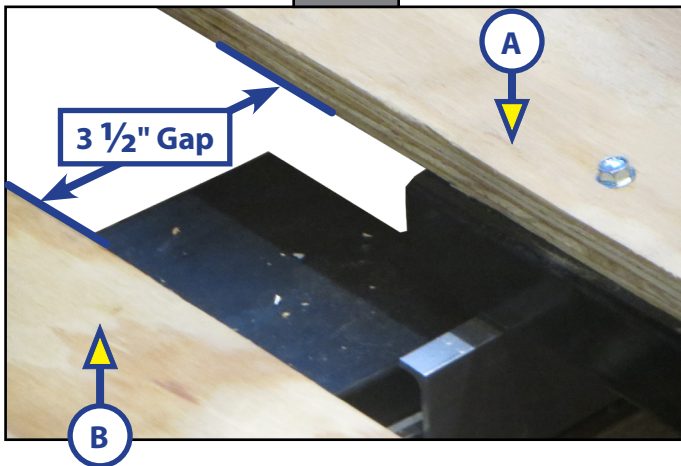


Fig. 7



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.

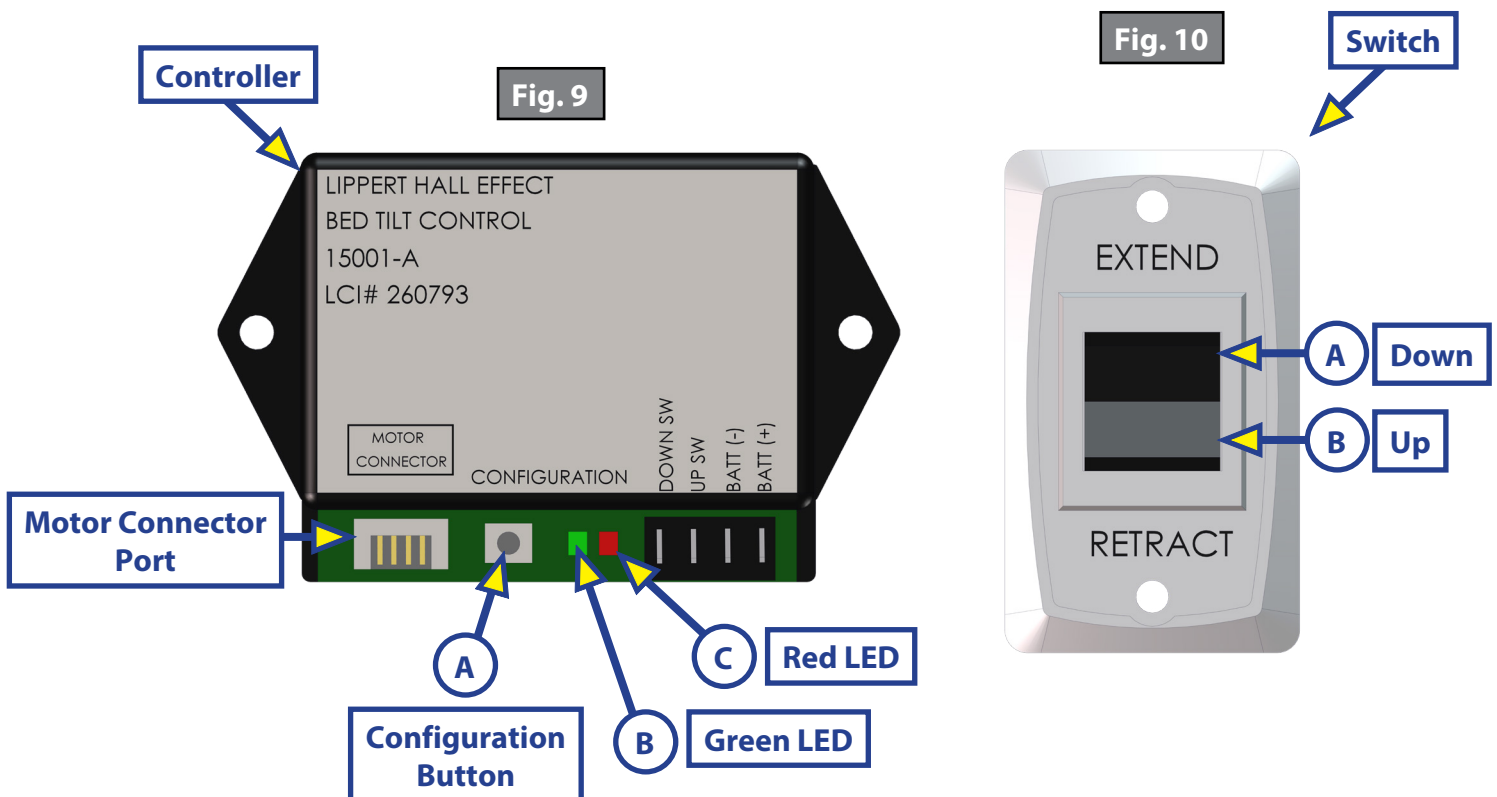
To enter calibration mode from normal mode, hold down the configuration button for five seconds (Fig. 9A).

To calibrate the stops:

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

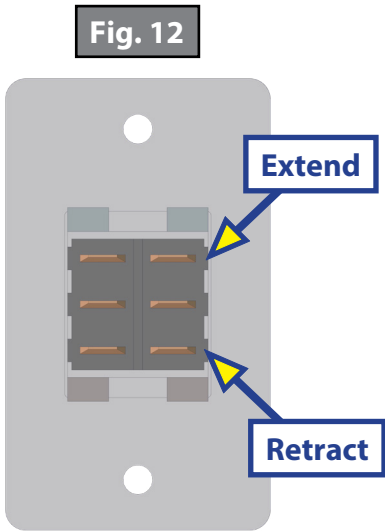
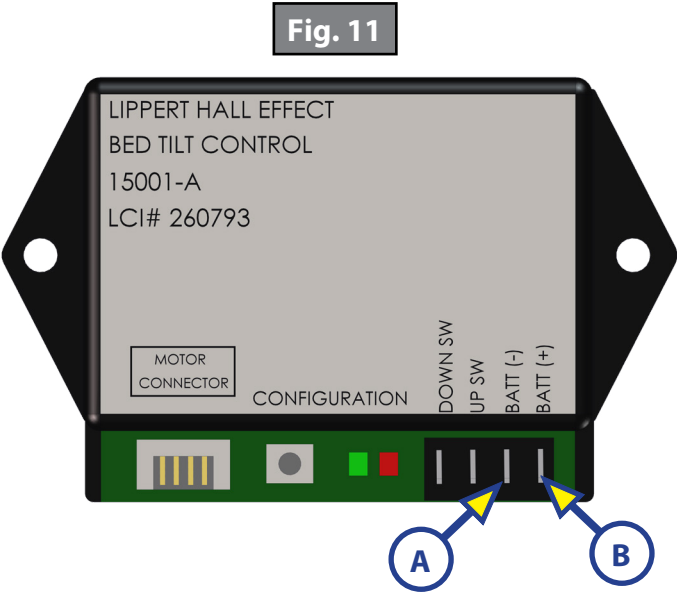
NOTE: If an error occurs during this configuration, the red and green LEDs will quickly alternate flashing.

11. To reset the stops, press and hold the configuration button for five seconds. This will allow the system to enter calibration mode.



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.



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.		

[illegible]



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