



SCHWINTEK BED TILT SERVICE MANUAL

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Introduction

Additional information about this product can be obtained from [lci1.com/support](https://support.lci1.com/support) or by downloading the free LippertNOW app. The app is available on Apple App Store® for iPhone® and iPad® and also on Google Play™ for Android™ users.

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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, e.g., 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 LCI limited warranty.

WARNING

The "WARNING" symbol above is a sign that a procedure has a safety risk involved and may cause death or serious personal injury if not performed safely and within the parameters set forth in this manual.

WARNING

Failure to follow instructions provided in this manual may result in death, serious personal injury and/or severe product and property damage, including 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, serious personal injury, severe product or property damage.

CAUTION

The "CAUTION" symbol above is a sign that a safety risk is involved and may cause personal injury and/or product or property damage if not safely adhered to and within the parameters set forth in this manual.

CAUTION

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

CAUTION

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

Motor Replacement

Tools Required

- 1-2 persons, depending on task
- Socket set
- $\frac{7}{16}$ " socket
- $\frac{5}{32}$ " hex wrench
- Hex wrenches
- Universal joint (optional)
- Ratchet wrench (optional)
- 7mm socket
- Vice grips

Procedure

1. Disconnect the motor from the controller.
2. Using vice grips, turn the torque shaft to extend the bracket arm assembly until the bracket arms are at a 90 degree angle.

NOTE: Raising the arms makes the cap screws easier to access.

3. Make sure the rails on both sides of the bed tilt assembly are secured.
4. Use a $\frac{7}{16}$ " socket and a $\frac{5}{32}$ " hex wrench to remove the 6mm cap screw from where the arms join (Fig. 1A).
5. Retract the bracket arm assembly until the gear box and motor shaft can be removed from the gear rack.

NOTE: Make sure the assembly is secured when removing the assembly from the gear rack.

6. Flip the assembly over to gain access to the motor. Use a socket wrench with a 7mm socket to remove motor bolts. Continuously slide motor out to get clearance for the socket.

NOTE: Use of a universal joint to remove motor is optional.

Fig. 1

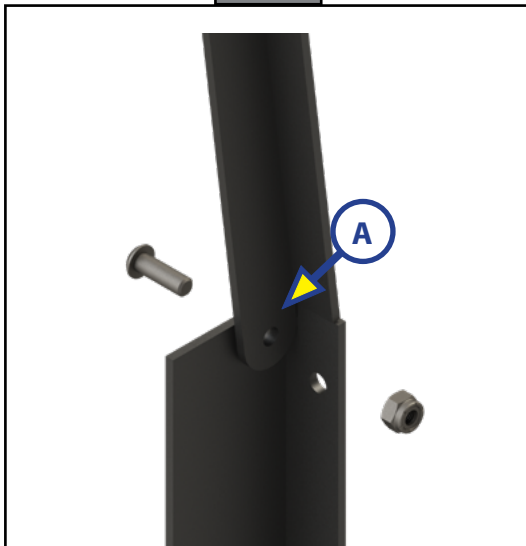
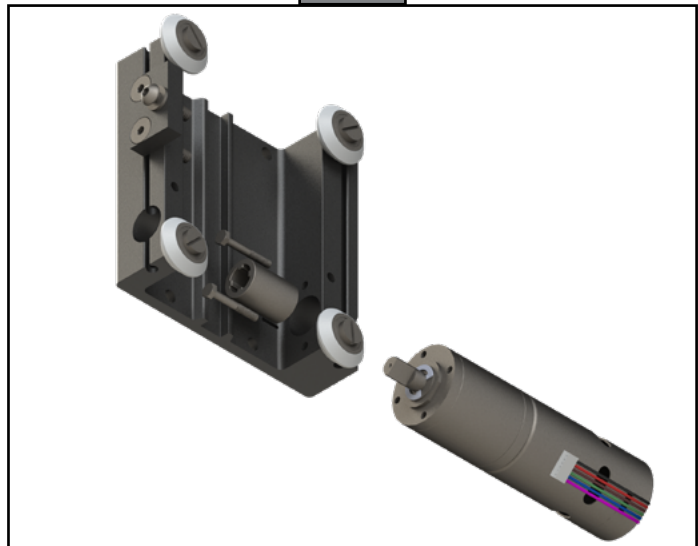


Fig. 2



7. Remove motor and set aside.
8. Align new motor with the wires facing away from the V-rollers (Fig. 2). Install motor with new bolts.

Spur Gear Replacement

Tools Required

- Socket set
- $\frac{7}{16}$ " socket
- $\frac{5}{32}$ " hex wrench
- Hex wrenches
- Screwdriver
- Ratchet
- Pliers
- Hammer
- Punch
- Chisel punch

Procedure

NOTE: Make sure to follow steps 1 through 4 in the Motor Replacement section before removing the spur gear.

1. Make sure the assembly is oriented so the V-rollers are accessible.
2. Secure the gear box on the non-motor end of the torque shaft (Fig. 3A)
3. Hit the torque shaft with a hammer until the torque shaft is flush with the gear box.
4. Place a punch on the torque shaft. Hit the punch with the hammer until the spur gear is accessible (Fig. 4).
5. Slide the torque shaft through the non-motor end gear box. Remove the spur gear and set aside.
6. Stake the torque shaft on both sides of the spur gear with a chisel punch on the non-motor side.
7. Turn the torque shaft 90 degrees. Stake the torque shaft on the motor end.

Fig. 3

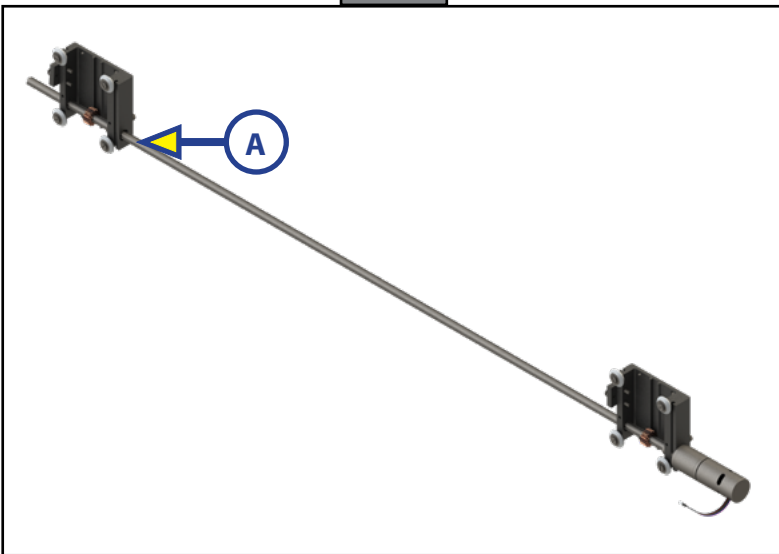
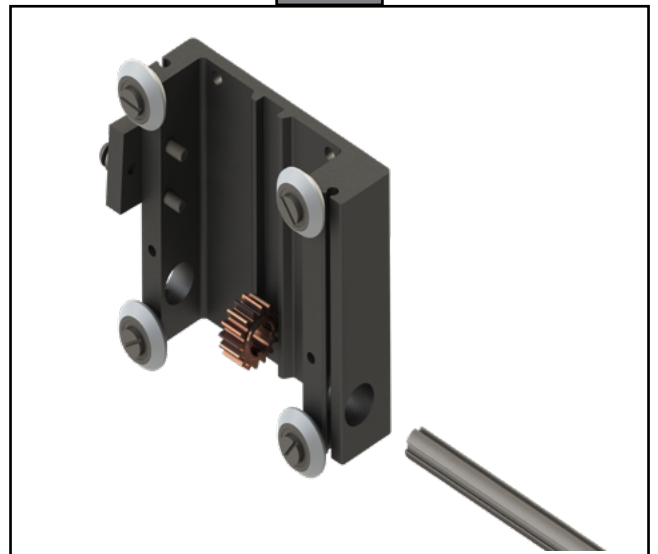


Fig. 4



V-Roller Assembly Replacement

Tools Required

- Flat head screwdriver
- Ratchet
- Pliers (optional)
- Loctite® Threadlocker Blue 242®

Procedure

NOTE: Make sure to do steps 1 through 4 in the Motor Replacement section and steps 1 through 4 in the Spur Gear Replacement section before removing the V-roller assembly.

1. Use a flat head screwdriver to remove V-roller bolt (Fig. 5A).

NOTE: The V-roller assembly is cured with a thread locking compound, bolts may strip or break when trying to remove them. Use pliers to loosen bolt if necessary.

2. Remove V-roller assembly and discard.
3. Repeat steps 1 and 2 for the remaining three V-roller assemblies.
4. Secure with Loctite® Threadlocker Blue 242® on the V-roller screws. Install new V-roller assemblies in the corners of the block (Fig. 6A). Secure with V-roller bolts.

Fig. 5

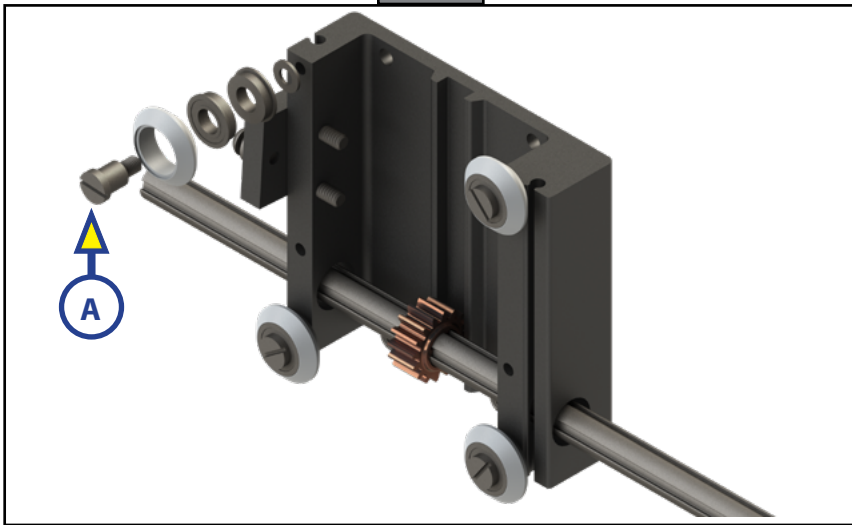
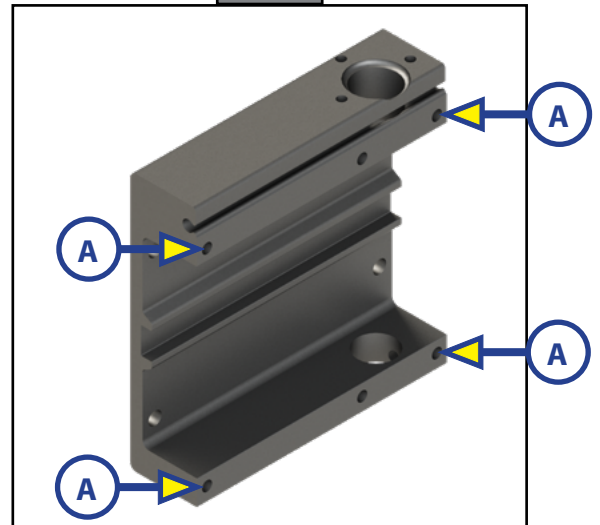


Fig. 6



Calibration

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

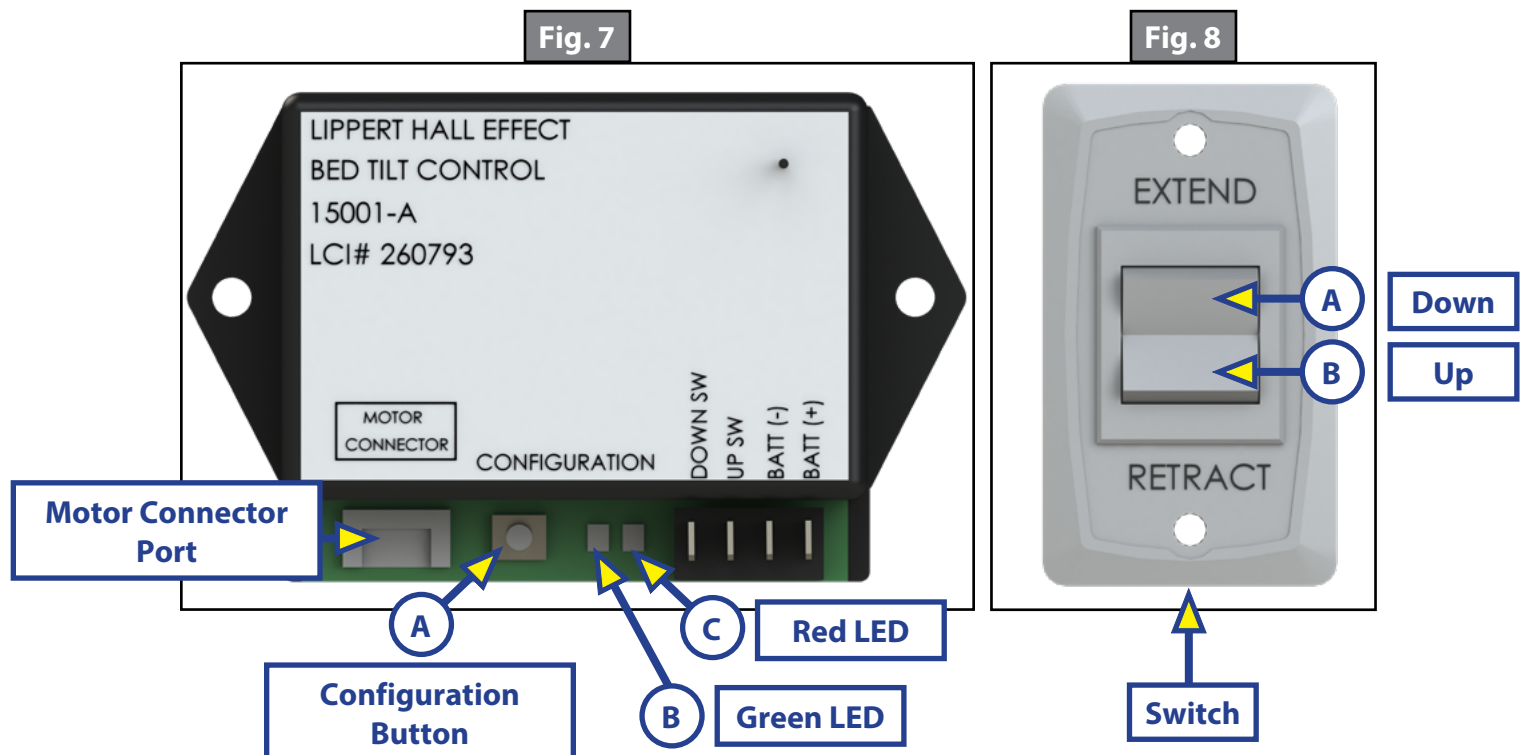
To enter calibration mode from normal mode, hold down the configuration button (Fig. 7A) for five seconds.

To calibrate the stops:

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

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

11. To reset the stops, press and hold the configuration button (Fig. 7A) for five seconds. This will allow the system to enter calibration mode.





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