



SCHWINTEK BUNK LIFT OEM INSTALLATION MANUAL

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TABLE OF CONTENTS

System Information	2
Safety Information	2
Resources Required	2
Installation	3
Bearing Blocks	3
Controller	3
Gear Racks	3
Stop Blocks	4
Amperage Test (Optional)	5
Obstructions	5
Fuses	5
Motors and Harnesses	5
Extend and Retract Switch Connections	5
Power and Ground Connections At the Controller	5
Homing	6
Setting Stop Points	6
Notes	7

System Information

This manual is a guide for the installation of the Schwintek Bunk Lift System. Exact installation procedure depends on the OEM's design of bunk bed attachment brackets and surrounding structures. At the OEM's discretion, the motor mounting blocks can be attached to either a seat back structure or a wall structure. Mounting to the seat back structure will not conceal the gear teeth. Mounting to the wall structure will conceal the gear teeth. Either mounting surface **MUST** contain sufficient backing material to support the assembly.

Safety Information

1. Consumer labels for the following are the responsibility of the OEM:

WARNING

Failure to act in accordance with the following may result in death, serious injury, unit or property damage.

CAUTION

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

- A. The bed is not to be occupied, loaded or used for cargo storage in any way while being raised or lowered.
 - B. The dinette/bed setting is not to be occupied during the raising or lowering of the bunk bed.
2. Development of a travel latch when the bed is in the raised position is the responsibility of the OEM.

Resources Required

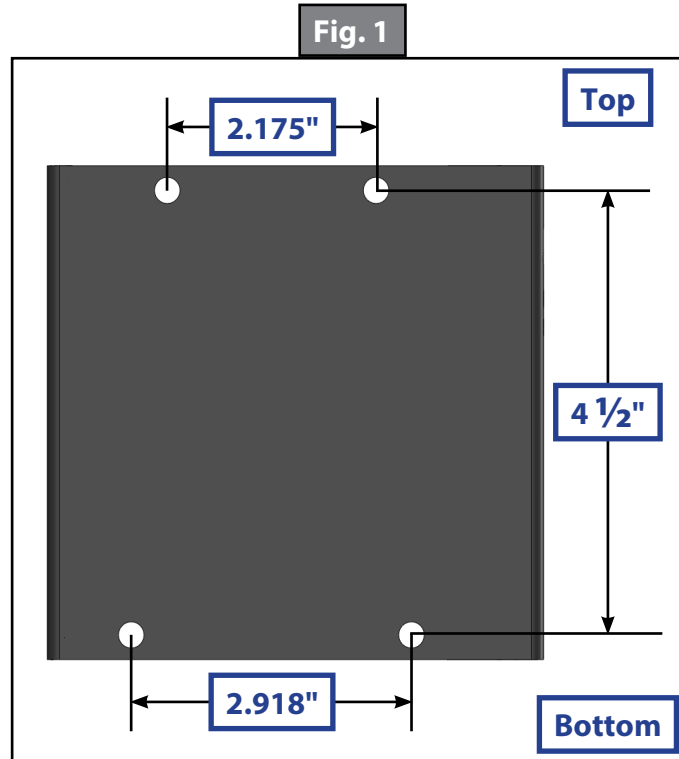
- Cordless or Electric Drill or Screw Gun
- Appropriate Drive Bits
- 1/4" Drill Bit
- 1/4" - 20 bolts

Installation

Bearing Blocks

1. Use a $\frac{1}{4}$ " drill bit and the bearing block bolt pattern (Fig. 1) as a template to drill the bolt holes in the load-bearing structure.
2. Mount the motor bearing blocks to the load-bearing structure using four $\frac{1}{4}$ " - 20 bolts per block.

NOTE: Motor bearing blocks **MUST** be mounted in such a way as to ensure the gear racks raise and lower perpendicular to the unit floor and parallel to walls. **DO NOT** use oversized holes as it will cause the assembly to tear away from the mounting structure.



Controller

1. Mount the controller in an area accessible to service but protected from damage.

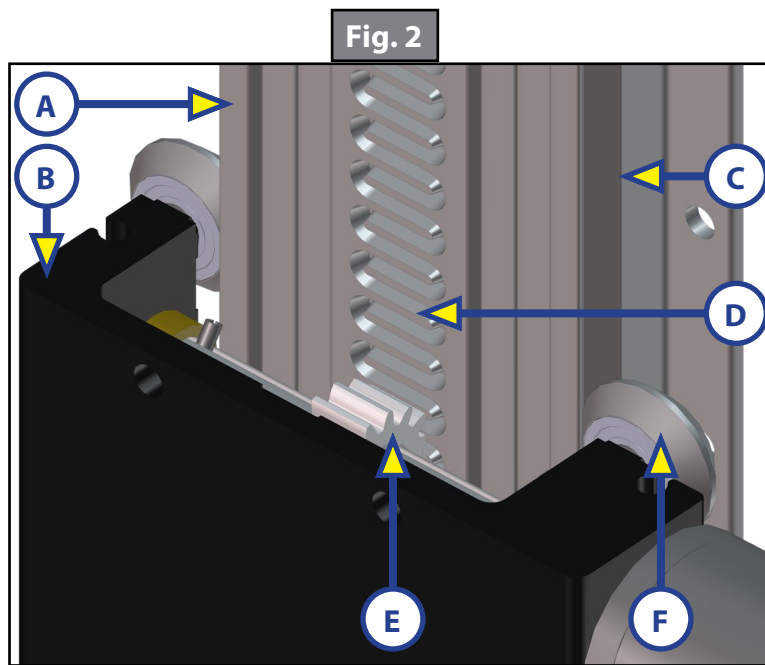
NOTE: Standard harness length is 15 feet. Longer harness lengths are available if required.

2. Insert the gear rack (Fig. 2A) into motor bearing block (Fig. 2B) by aligning the V-grooves (Fig. 2C) in the rack with the V-rollers (Fig. 2F) in the motor bearing block. Insert until the spur gear (Fig. 2E) in the motor bearing block comes into contact with the gear rack teeth (Fig. 2D).
3. Connect the motor to the controller and controller to a 12V power source.

Gear Racks

Once connected to power, lower the gear racks into the motor bearing blocks to engage the lower V-rollers.

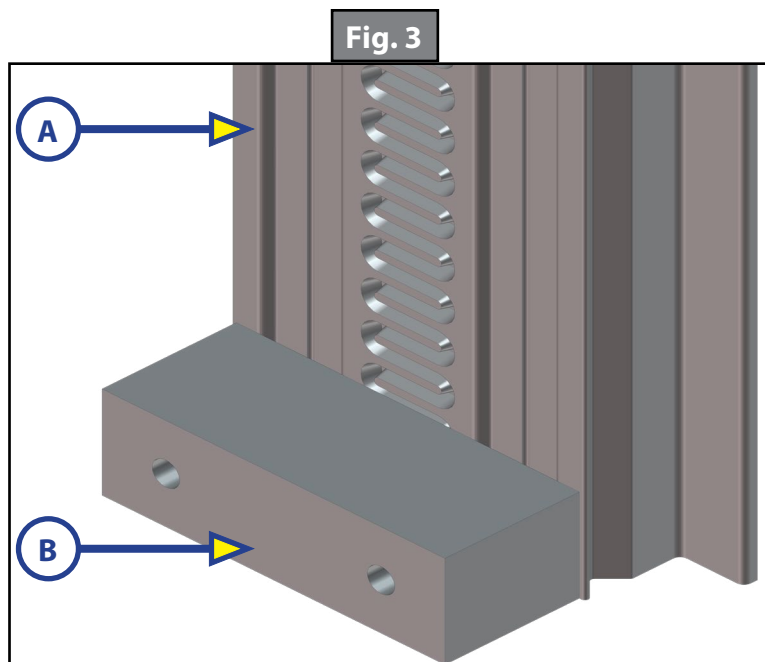
NOTE: It is the responsibility of the OEM to choose the type and location of the wall switch to prevent unsupervised and unintended operation.



Stop Blocks

1. Lower the gear rack (Fig. 3A) sufficiently to install the stop block (Fig. 3B).
2. Using the socket head screws and lock washers provided, secure the stop block (Fig. 3B) to the gear rack (Fig. 3A).
3. Attach bunk bed mounting brackets and bunk bed to gear racks.

NOTE: The bunk bed and method of attachment to the Bunk Lift System is the responsibility of the OEM. The bunk bed must be centered on the Bunk Lift System's gear rack lifting posts. Connect the motors to the controller and the controller to a 12V power source.



Amperage Test (Optional)

1. Connect an amp meter to the incoming power to the controller and extend and retract the lift. The lift should operate at a consistent amp load throughout its entire stroke.

Obstructions

Check inside the unit for any obstructions near the bunk. Also, check for smaller objects that may be wedged in the gear rack or in the bearing block assembly. Remove obstructions before proceeding.

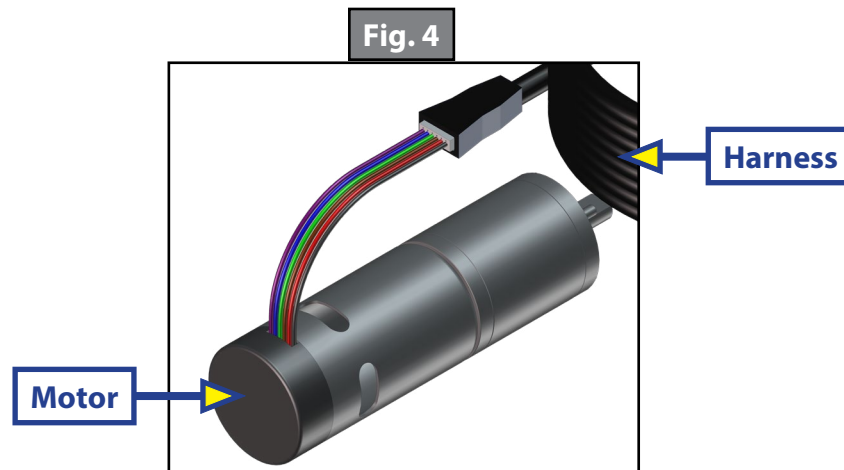
Fuses

The Schwintek Bunk Lift requires a minimum of a 30-amp fuse. Consult the manufacturer's documentation for the location of the 12-volt fuse box, and the location of the Schwintek Bunk Lift Controller's fuse. If the fuse blows immediately upon activation of the Bunk Lift, there is a problem with the wiring to the Schwintek Bunk Lift Controller.

Motors and Harnesses

1. Check for proper connections between the motors and harnesses (Fig. 4).
2. Visually inspect the exposed harnesses to ensure they are not pinched or damaged.

NOTE: Ribs on motor connector line up with notch inside of male connector on wiring harness. Color codes on wires also match (black to black, red to red, etc.)



Extend and Retract Switch Connections

Common connection on controller goes to common connection on extend and retract switch. Extend and retract connections on the controller go to the extend and retract terminals on the switch. Switch is powered by the OEM supplied 12V DC power source.

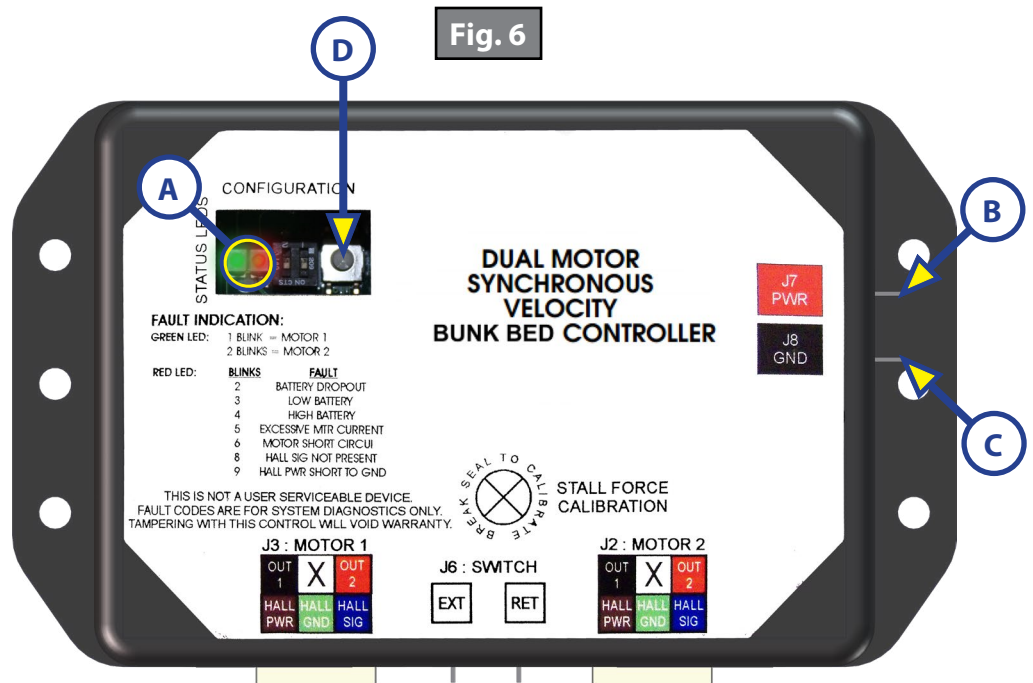
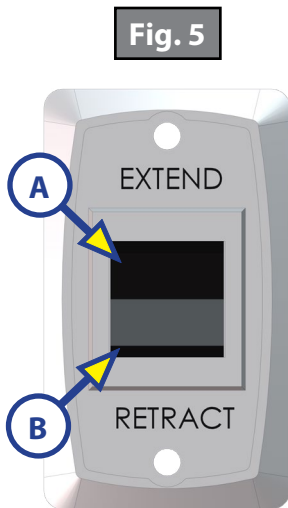
Power and Ground Connections at The Controller

Power and ground are supplied to the controller through the spade terminals located on the right hand side of the controller (Fig. 6B, 6C). 12V DC is recommended. A 10ga wire is the minimum size recommended, and a 30 amp resettable fuse or blade is required.

Homing

Homing the Bunk Lift for the first time:

1. Using the wall switch, press the "EXTEND" button (Fig. 5A).
2. Quickly verify that both motors are moving in the same direction; if not stop immediately and remedy the problem.
3. Allow the Bunk Lift to power all of the way and continue pressing the "EXTEND" button until both sides have completely stopped and the motors turn off by themselves.
4. Release the "EXTEND" button and check the red and green LED lights on the circuit board to confirm both are on (Fig. 6A) (they will both turn off automatically after 1 minute).
5. If only one of the LEDs is on, go back to the wall switch, press the "RETRACT" button (Fig. 5B) for one second and release. Repeat Step 1 until both LEDs are on (Fig. 6A).



Setting Stop Points

1. Lower the Bunk Lift into the desired position and press the white calibration button (Fig. 6D) on the controller once.
2. Raise the Bunk Lift into the desired position and press the white calibration button (Fig. 6D) on the controller once.
3. Test the controller's programming by lowering and raising the Bunk Lift.

[illegible]



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