



SCHWINTEK BUNK LIFT OWNER'S MANUAL

L I P P E R T
C O M P O N E N T STM

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System Information

The Schwintek Bunk Lift System is designed to raise and lower an unoccupied and unloaded bunk bed integrated into a dinette/bed setting in a stationary recreational vehicle.

NOTE: Bed is not to be occupied, loaded or used for cargo storage in any way while being raised or lowered. The dinette/bed setting is not to be occupied during raising or lowering the bunk bed.

NOTE: Periodic light lubrication (multi-purpose lubricant) of the gear racks may be necessary if gear chatter sounds occur due to normal wear.

Operation

1. Press and hold the "RETRACT" button (Fig. 1B) until the Bunk Lift lowers into the rested position. Continue to press the switch for 2-3 seconds after the Bunk Lift has stopped moving.
2. Press and hold the "EXTEND" button (Fig. 1A) until the Bunk Lift raises up to the ceiling. Continue to press the switch for 2-3 seconds after the Bunk Lift has stopped moving.

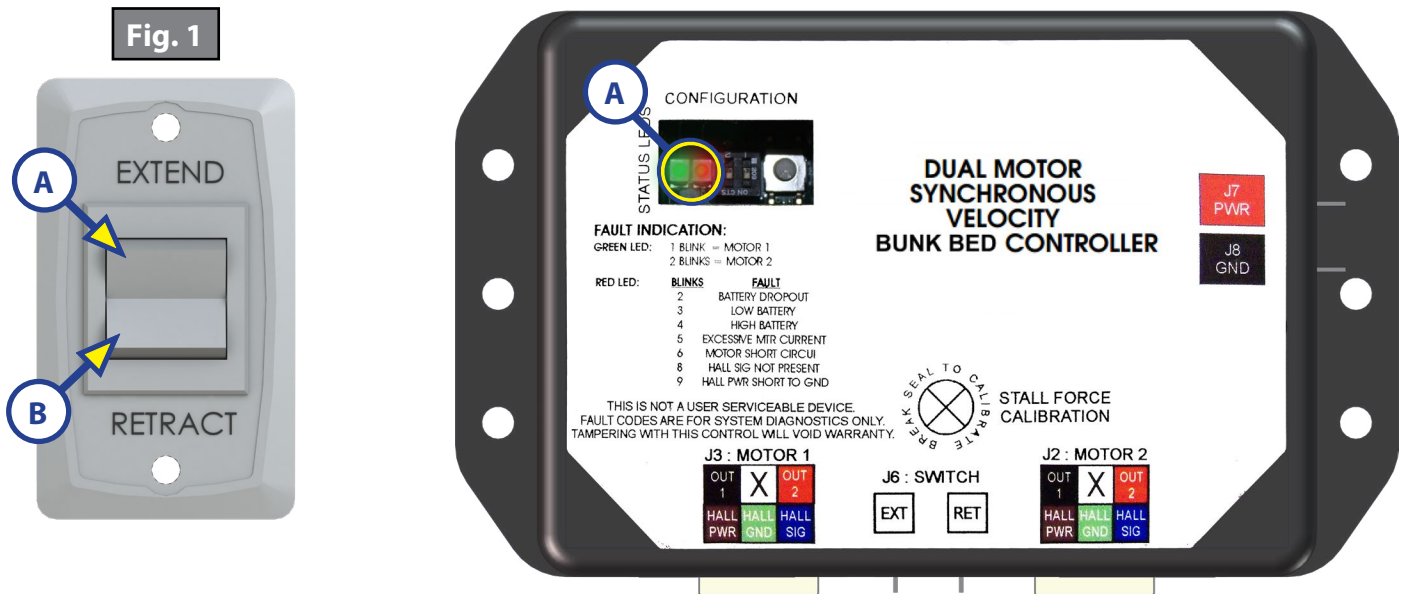
NOTE: Holding the switch for 2-3 seconds after the mechanism stops maintains motor synchronization.

Programming

Homing the Bunk Lift

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

Fig. 2



Troubleshooting

Electronic Manual Override

NOTE: See (Fig. 3) for locations of the mode button and LEDs.

- 1. Press the mode button on the controller six times and hold on the seventh for five seconds to enter electronic manual override mode.
- 2. Use the extend/retract switch to move both motors in or out.

NOTE: Over-current and short circuit detection are still enabled. Electronic manual override provides 12V directly to both motors.

- 3. To exit the mode, push and hold the mode button until the LEDs begin to blink simultaneously. Exiting the override mode resets the motor positions.

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.

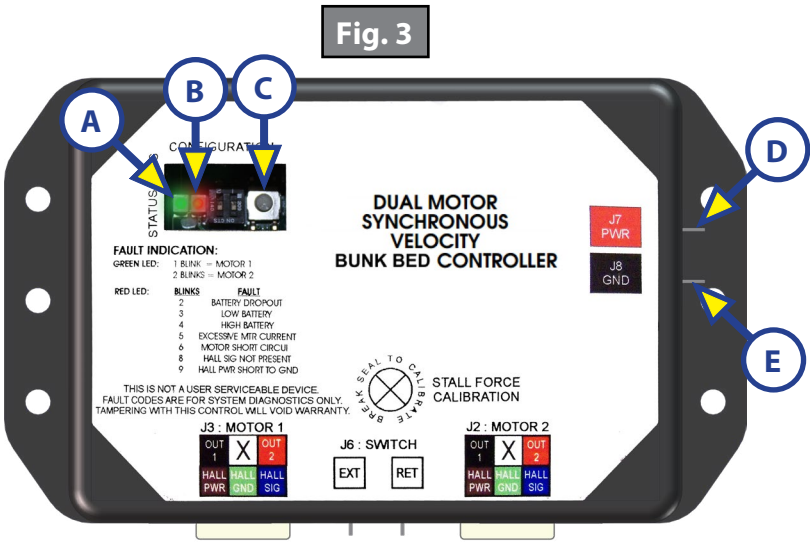
Power and Ground Connections at the Controller

Power and ground are supplied to the controller through the spade terminals located on the right hand side of the controller (Fig. 3D, 3E). 12V DC is recommended. A 10ga wire is the minimum size recommended. 30 Amp resettable or blade is required.

Error Codes

During operation when an error occurs the board will use the LEDs to indicate where the problem exists. For motor-specific faults the green LED (Fig. 3A) will blink 1 time for motor 1, and 2 times for motor 2. The red LED (Fig. 3B) will blink from 2 to 9 times depending on the error code.

Error Code	Name	Description
2	Battery Drop Out	Battery capacity low enough to drop below 8 volts while running.
3	Low Battery	Voltage below 8 volts at start of cycle.
4	High Battery	Voltage greater than 18 volts.
5	Excessive Motor Current	High amperage, also indicated by 1 side of bunk continually stalling.
6	Motor Short Circuit	Motor or wiring to motor has shorted out.
8	Hall Sig Not Present	Encoder is not providing a signal, which is usually a wiring problem.
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.		



Low Voltage

The Schwintek Bunk Lift Controller is capable of operating the bunk with as little as 8 volts. But at these lower voltages the amperage requirement is greater. Check voltage at the controller (Fig. 3D and 3E). If voltage is lower than 11 volts, it is recommended that the battery be placed on a charger until it is fully charged. It may be possible to "jump" the RV's battery temporarily to operate the system. Consult the RV manufacturer's owners manual on the procedure for "jumping" or charging the battery.

NOTE: Never "jump" or charge the battery from the power connections on the Schwintek Bunk Lift Controller. Always do this at the battery.

Obstructions

Check inside the RV 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.

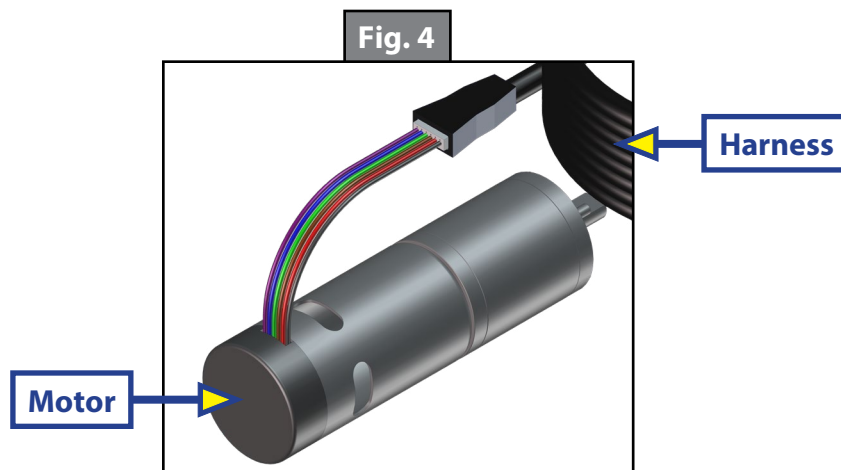
Checking Fuses

The Schwintek Bunk Lift requires a minimum of a 30-amp fuse. Check the 12-volt fuse box for blown fuses, and replace any if necessary. Consult the RV 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 replacement, there is a problem with the wiring to the Schwintek Bunk Lift Controller. Have qualified service personnel check and repair.

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.)

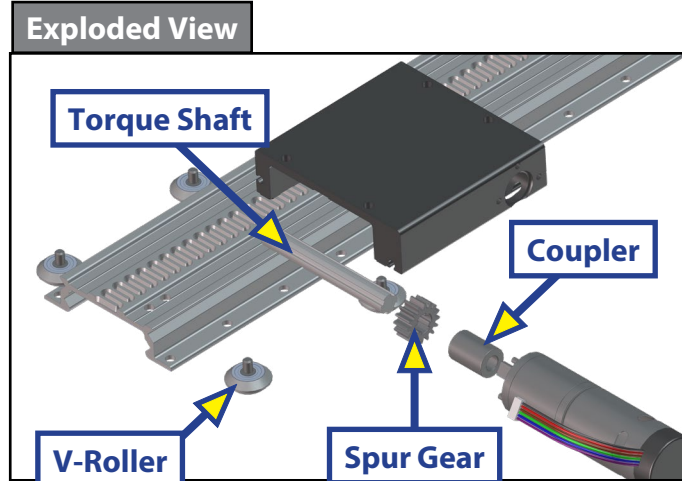
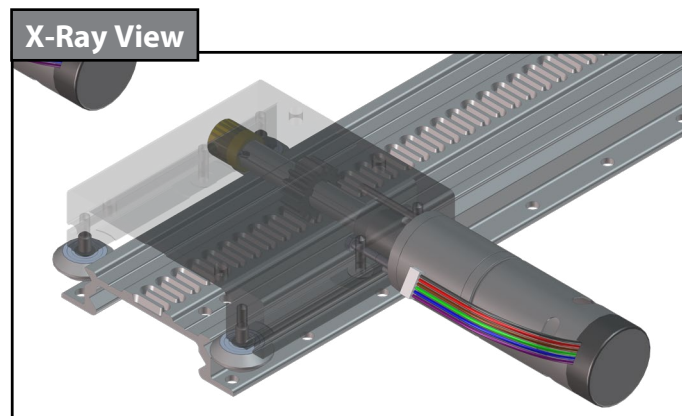
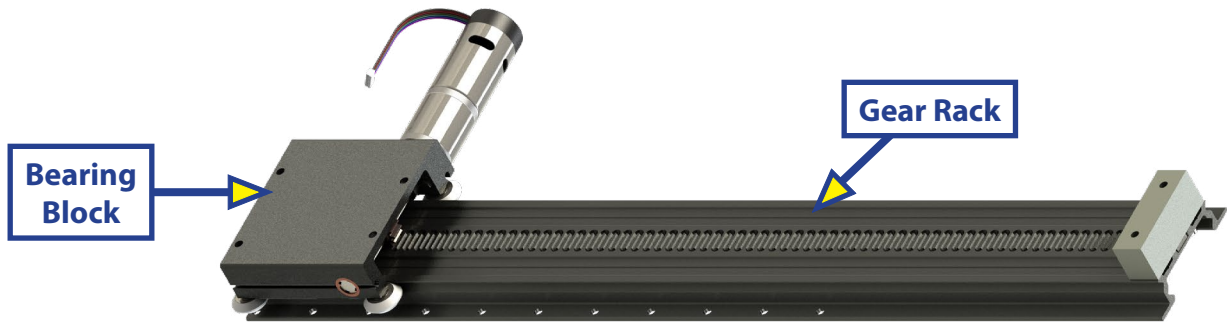


Resynchronizing the Slide-out Motors

1. Fully raise the bunk lift using the switch. Keep the switch engaged until the motors shut down on their own.
2. Lower the bunk lift 1-2 inches.
3. Repeat steps 1 and 2 until both motors shut down at the same time. In many cases, two or three repetitions are necessary to re-sync the system.
4. Fully raise and then lower the bunk lift. Again, always let the motors shut down on their own before releasing the switch.

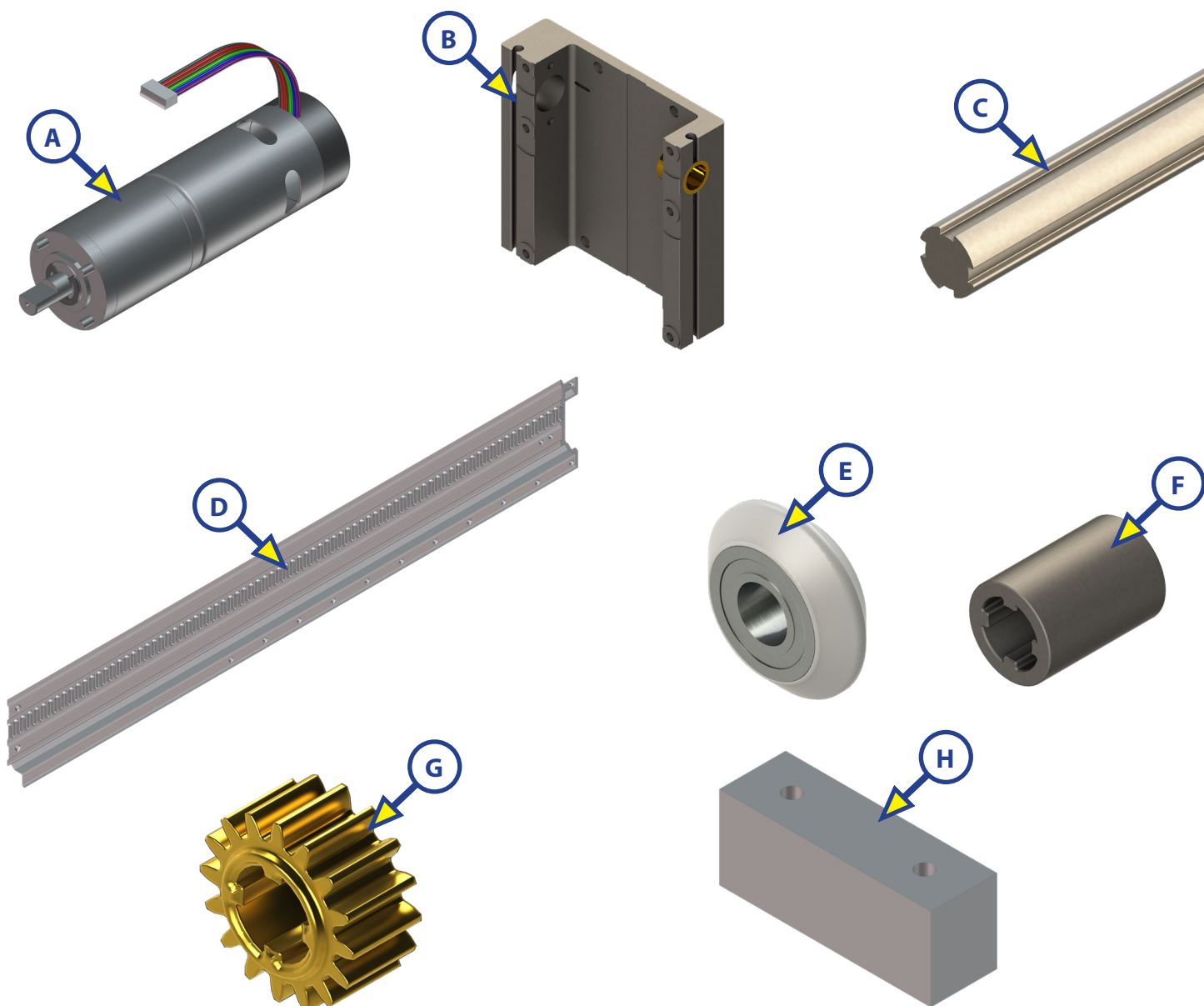
SCHWINTEK BUNK LIFT ASSEMBLY

POWER AND MOTION



SCHWINTEK BUNK LIFT COMPONENTS

POWER AND MOTION



Callout	Part #	Description
A	236575	300:1 Motor
B	327495	Bearing Block
C	*238462	Torque Shaft
D	*260853	Gear Rack
E	*292801	V-Roller Assembly
F	238461	Torque Shaft Coupler
G	238893	Spur Gear
H	326818	Stop Block
NOTE: *Parts shown for reference only. The part is not available for individual replacement.		



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