

**LUMEX<sup>®</sup>**

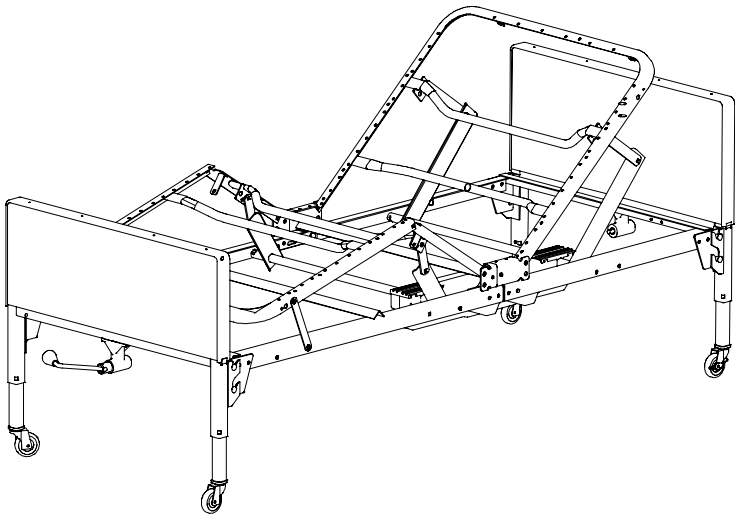
*Whisper*  *Lite*<sup>™</sup> II SERIES

# Homecare Bed

**Model WL0208 Semi-Electric Bed**

**Model WL0408/WL0458 Full-Electric Bed**

**Model WL0608/WL0658 Full-Electric Low Bed**



## User Manual



**GRAHAM-FIELD  
HEALTH PRODUCTS**

**READ THESE INSTRUCTIONS BEFORE OPERATING THE  
WHISPERLITE II HOMECARE BED**

**SAVE THESE INSTRUCTIONS FOR FUTURE USE**

## WARNING / CAUTION SUMMARY

- ⚠ WARNING: KEEP HANDS AND FEET CLEAR OF ALL MOVING PARTS.**
- ⚠ WARNING: DO NOT ALLOW SMALL CHILDREN ON OR NEAR BED DURING OPERATION.**
- ⚠ WARNING: DO NOT ALLOW THIS DEVICE TO BE OPERATED BY SMALL CHILDREN.**
- ⚠ WARNING: WHEN OPERATING THE HI/LO, KNEE, OR BACK FUNCTION OF THE BED, ALWAYS ENSURE THAT THE INDIVIDUAL CONFINED TO THE BED IS POSITIONED PROPERLY WITHIN THE CONFINES OF THE BED. DO NOT LET ANY EXTREMITIES PROTRUDE OVER THE SIDE OR BETWEEN THE BED RAILS WHEN PERFORMING ANY FUNCTIONS.**
- ⚠ CAUTION: DO NOT USE UNAUTHORIZED SIDE RAILS. INSTALL SIDE RAILS PER MANUFACTURER'S INSTRUCTIONS.**  
**CAUTION: WARNING/CAUTION LABELS APPLIED TO THE BED OUTLINE HAZARDS OR UNSAFE PRACTICES THAT COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE.**
- ⚠ CAUTION: PENDANT HAND CONTROL CORD MUST BE ROUTED AND SECURED PROPERLY TO ENSURE THAT CORD DOES NOT BECOME ENTANGLED AND EVENTUALLY SEVERED DURING USE. MAKE SURE ELECTRIC CORDS DO NOT GET TANGLED AROUND THE BED, SIDE RAILS OR LEGS DURING NORMAL OPERATION OF THE BED.**
- ⚠ CAUTION: WHEN USING NASAL OR MASKED TYPE ADMINISTERING EQUIPMENT, OXYGEN OR AIR TUBING MUST BE ROUTED AND SECURED PROPERLY TO ENSURE THAT TUBING DOES NOT BECOME ENTANGLED AND EVENTUALLY SEVERED DURING NORMAL OPERATION OF BED.**
- ⚠ CAUTION: BEFORE OPERATING, ENSURE THAT THE BED FRAME RIVETS ARE PROPERLY SEATED IN THE BED END HOOKS: OTHERWISE INJURY OR DAMAGE MAY RESULT.**
- ⚠ CAUTION: KEEP ALL MOVING PARTS FREE OF OBSTRUCTIONS (I.E. BLANKETS/SHEETS, HEATING BLANKETS/PADS, TUBING, WIRING, AND OTHER TYPES OF PRODUCTS).**

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• READ THESE INSTRUCTIONS BEFORE OPERATING THE WHISPERLITE II HOMECARE BED

• SAVE THESE INSTRUCTIONS

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## INTRODUCTION, HOMECARE BED USER MANUAL

This manual contains assembly and maintenance instructions for your Model WL0208 Semi-Electric, WL0408/WL0458 Full-Electric, and WL0608/WL0658 Full-Electric Low WhisperLite II bed. Read the entire manual carefully before using your bed, and refer to it during use if you have questions.

### THEMAL MOTOR PROTECTION

This product is powered by a quiet, efficient DC motor system. When the bed is plugged into a power outlet, the electrical transformer is always energized in a stand-by condition. The Okimat actuator casing may feel warm to the touch even when the bed is not being used; this is a normal condition.

**Thermal protection activation** (protection against overheating caused by excessive or extended periods of operation), which causes the bed to shut down operation when overheated, is a safety feature of this product.

Causes of thermal protection activation include multiple or repeated adjustment of long duration, or the use of multiple functions at one time. To ensure trouble-free operation, always allow a slight pause between multiple adjustments, and avoid operating more than one function at a time. If thermal protection activation occurs, the bed pendant hand control will not function. The thermal protection will reset after a period of time dependent on the severity of the overheating. To shorten the reset time, temporarily unplug the power cord from the power outlet.

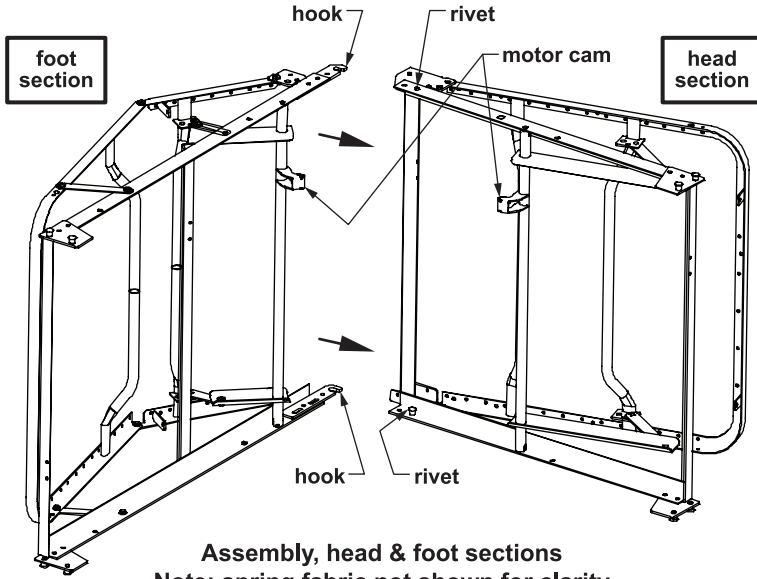
### GRAVITY-DOWN FEATURE FOR HEAD AND KNEE ELEVATION

WhisperLite II beds are equipped with a **gravity-down** safety feature. The motors push the head and knee spring decks up, but do not pull the knee and head down. As the motor plunger retracts, the head and knee lower freely, minimizing bed damage and/or injury from items caught under the spring deck. Note: Due to geometry and knee joint design, the knee may not level without weight on the bed.

# ASSEMBLY INSTRUCTIONS

## Head and foot assembly

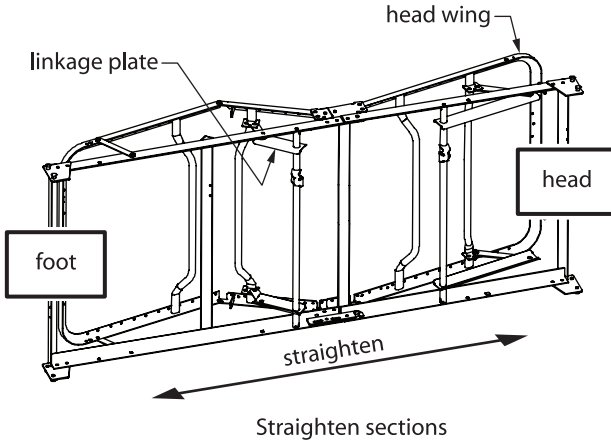
1. Lay the head and foot sections on their sides at approximately right angles to each other with motor cams up, as shown below.



**Assembly, head & foot sections**  
Note: spring fabric not shown for clarity

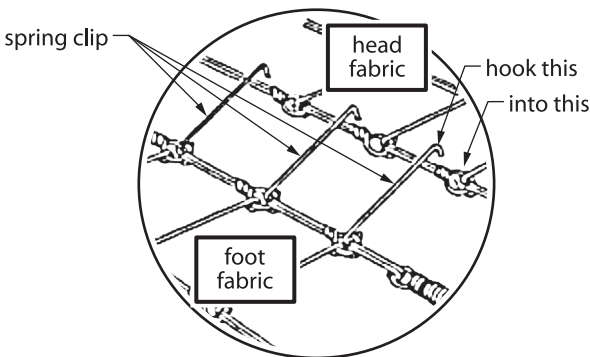
2. Slide the head and foot sections together until the foot section's hook catches the head section's rivet on both sides.

3. Straighten head and foot and position as shown below. Position head wing as shown below.



**⚠ CAUTION: WHILE BALANCING FRAME, DO NOT ELEVATE KNEE TOO FAR, OR LINKAGE MAY OVER-EXTEND AND LOCK. IF LINKAGE LOCKS, MANUALLY ELEVATE KNEE TO STRAIGHTEN OUT LINKAGE AND PUSH LARGE LINKAGE PLATE TOWARD FOOT OF BED.**

4. Attach foot fabric to head fabric: Attach the foot fabric spring clips to the head fabric as shown below.



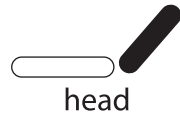
Attach spring clips

**⚠ CAUTION: ENSURE THAT HEAD AND FOOT SECTIONS AND SPRING FABRIC ARE ASSEMBLED AS DESCRIBED ABOVE BEFORE CONTINUING WITH BED ASSEMBLY.**

# Motor assembly

**⚠ CAUTION: ASSEMBLE MOTOR ON BED AS FOLLOWS; INCORRECT INSTALLATION COULD CAUSE BED TO MOVE IN UNEXPECTED WAYS. MOTOR CAN BE INSTALLED BACKWARDS.**

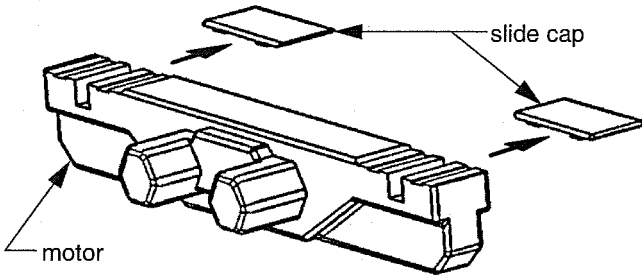
**NOTE: MOTOR IS EMBOSSED WITH HEAD AND FOOT SYMBOLS (SHOWN AT RIGHT) AT END OF MOTOR.**



## Remove motor side caps.

1. Remove the slide caps from both ends of the motor as shown below. Plungers should be recessed in motor cavities; if not, operate "down" function on the pendant hand control.

*Note: Motor comes from factory with pendant hand control plugged into motor.*

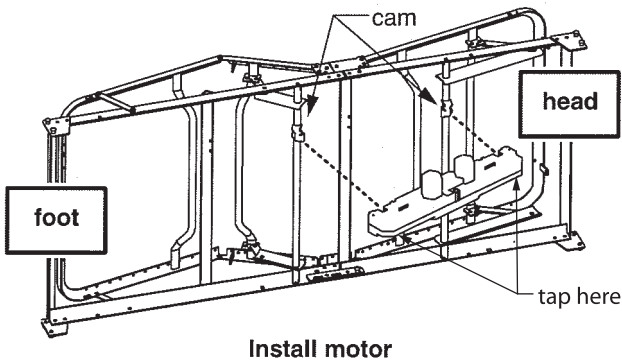


**Remove motor slide caps**

2. Install 9V backup battery (not provided) and slide into storage area.

## Install Motors.

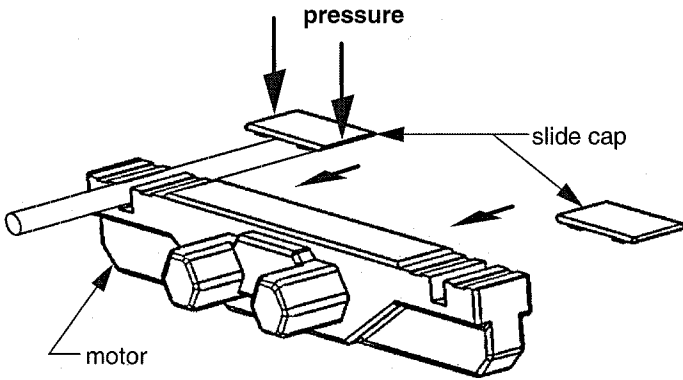
3. Hold the bed securely, positioned with motor cams up, as shown below.
4. Position the motor over both cams
5. Tap either end of the motor housing (shown below) with enough force to snap the motor assembly into position on the cam. Note: This is a bearing surface requiring a tight fit; it may require a hardy hit with palm of hand to snap over motor tube.
6. Repeat step 5 for other end of motor.



## Install motor slide caps

7. Position the caps as shown on page 9 so that the grooves in the slide cap are aligned with the grooves in the motor.
8. Apply straight downward pressure to each end of the cap while sliding into the closed position.
9. Repeat step 8 for the other cap.
10. Ensure that all four corners of each slide cap are engaged.





**Install motor slide caps**

**⚠ WARNING: ENSURE THAT THE MOTOR IS ASSEMBLED ON BED AS INSTRUCTED ABOVE BEFORE USE.**

## **MOTOR ASSEMBLY TROUBLESHOOTING**

Problems associated with improper motor installation are listed below, with appropriate fix.

1. Problem: Head operates with knee control button and knee operates with head control button.

Probable cause: Motor is installed backwards.

Fix: Remove motor and reverse it (see page 7).

2. Problem: Knee lifting linkages protrude through the spring deck, preventing knee deck from leveling and moving.

Probable cause: Motor is installed backwards, enabling knee to elevate too high and lock linkage.

Fix: Remove motor; reverse linkage (see page 6); reinstall motor.

## **Models WL0608 and WL0658 Low Bed End Installation End Set 690-5004-000 & 690-5003-000**

1. Insert casters into sockets on inside of short legs.
2. Headboard and Footboard are labeled on gearbox. Attach Footboard to foot frame and motor coupling (see p. 11).
3. Attach Headboard to head frame and install hi/lo drive shaft (see p. 11).

## **Models WL0608 and WL0658 Low Bed Features**

1. Ends are self-leveling.
2. When in lowest position, casters are engaged for bed movement.
3. When elevated, bed is off casters and cannot be moved.
4. Due to the clearances involved, only minor travel and movements are recommended in the low position. Casters can be moved to outer legs to provide clearance if bed must be moved or rolled.
5. Ends can also be used as a conventional full electric end set when casters are moved to the outer legs as pictured below.
6. As a conventional end, the low height is 13 inches and maximum height is 23 inches.

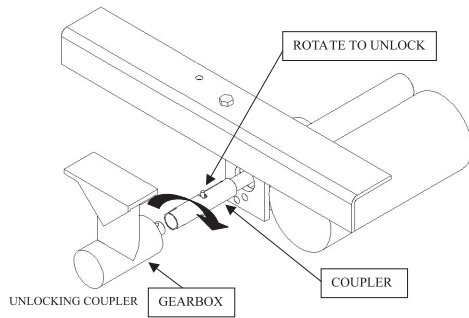
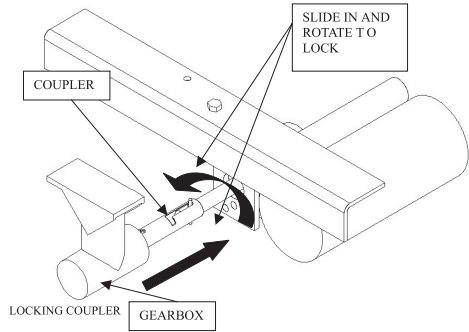
Move casters to outer legs for conventional end use and transport as shown below.



## Bed end assembly

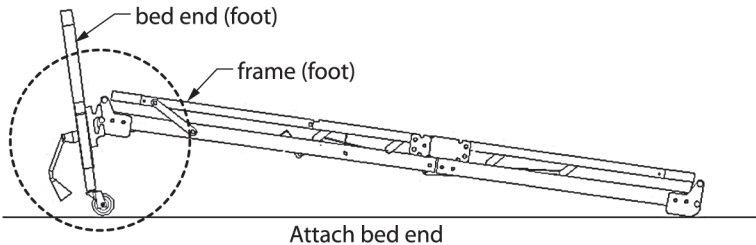
### Full-electric bed only WL0408/WL0458

Before attaching foot end, ensure that hi/lo motor spring coupling is retracted and locked to avoid interference with end gearbox shaft (see pictures at right).

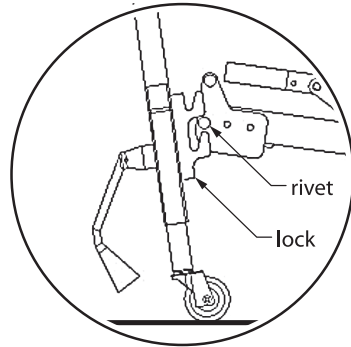


### Full-electric and Semi-Electric bed (all models)

1. Standing directly in front of the foot bed end, position it as close to the bed as possible.
2. With one hand, reach over end and lift up bed.
3. Tilt the bed end slightly back toward you.

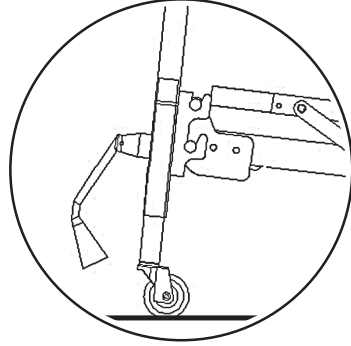


- Engage lower rivet slightly with corner lock and tilt end toward bed.



Engage lower rivet

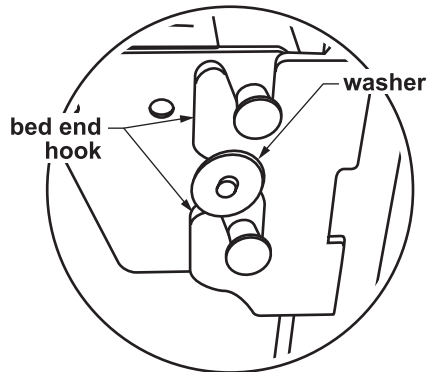
- Lower bed onto corner lock.



Lower bed onto lock

- After bed ends have been attached, install bed end safety pins to act as safety latches (Bed End Safety Pin Kit part number: 650-1000-000; includes four clevis pins, four hitch pins and four washers).

Insert pins and washer as shown at right, with flat washer on outside of bed end hook. Bed end safety pins are not necessary for normal bed operation; however, they will prevent the bed ends from accidentally rolling off when moving or pushing the bed, or while installing or using bed mount trapezes.



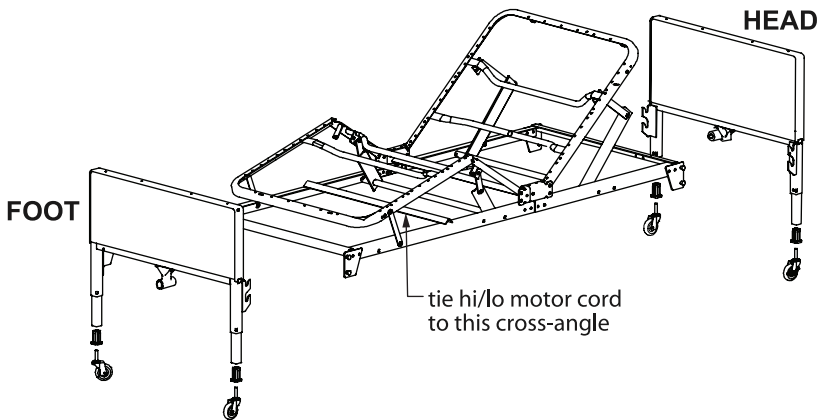
Install bed end safety pins

### Full-electric bed *only*

After installing foot end, you may have to shift bed frame slightly in bed end hooks to ensure proper horizontal alignment with motor coupling and end gearbox shaft.

When coupling and shaft are aligned, unlock spring-loaded coupling. Coupling may not snap into groove until motor is rotated with pendant hand control after bed is assembled.

Plug hi/lo motor into Okimat actuator assembly, being careful to route cord with the nylon tie strap provided under fixed base frame cross-angle (as shown below) to ensure clearance with hi/lo drive shaft. The motor plug is located next to the pendant hand control plug on the actuator. **Note: Do not tie motor cord to moveable knee section crosstube.**



### Full-electric and Semi-Electric bed

7. Repeat steps 1-6 for head bed end.

## Hi/lo rod assembly / Bed length

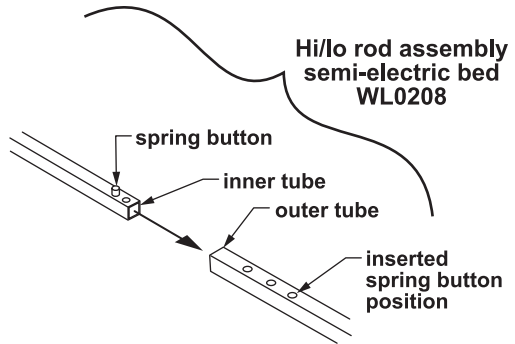
The hi/lo rod assembly consists of an inner and outer tube with a spring button lock to keep them together.

1. Assemble outer and inner tubes:

### Semi-electric bed

#### Model WL0208

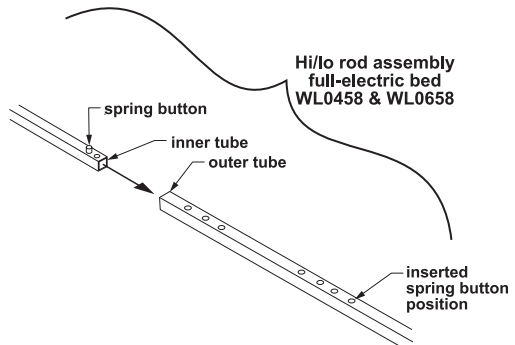
Depress spring button and insert inner tube into outer tube until third hole is reached as shown at right. Release spring button to lock it into hole.



### Full-electric bed

#### Model WL0458/WL0658

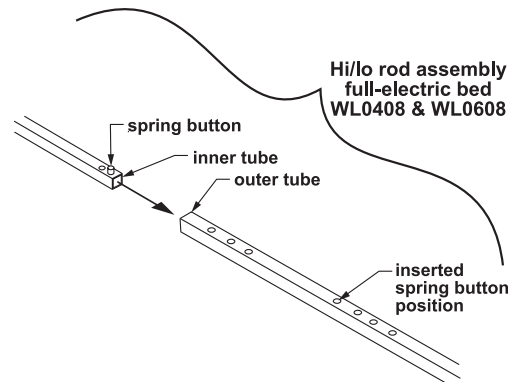
Depress spring button and insert inner tube into outer tube until last hole of second hole set is reached as shown at right. Release spring button to lock it into hole.



### Full-electric bed

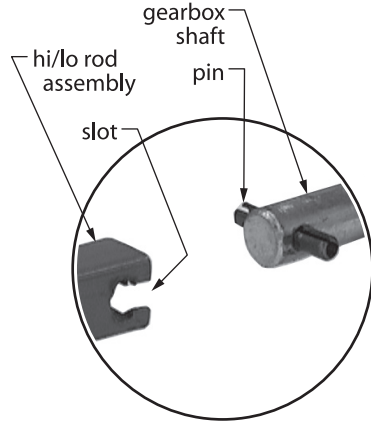
#### Model WL0408/WL0608

Depress spring button and move it to outer hole. Depress spring button and insert inner tube into outer tube until first hole of second hole set is reached as shown at right. Release spring button to lock it into hole.



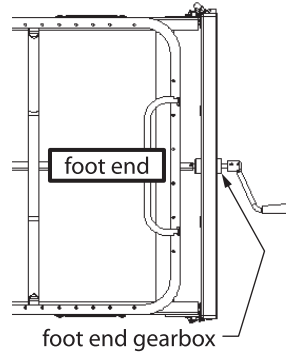
**Full-electric and Semi-Electric bed**

Both ends of the hi/lo rod assembly have a slot to mount on the foot end and head end gearbox shaft pins (see picture at right). Follow steps 2-3 to mount the hi/lo rod assembly on the gearboxes.



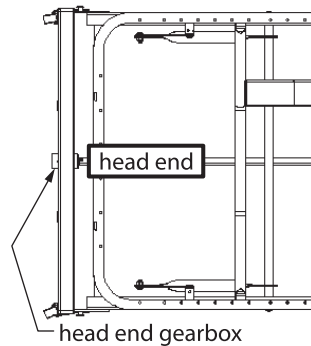
Attach hi/lo rod assembly to gearbox

2. Connect the hi/lo rod assembly to the bed: Attach either end of hi/lo rod assembly to the foot end gearbox.



Attach hi/lo rod assembly to foot end gearbox

3. Attach other end of hi/lo rod assembly to head end gearbox.



Attach hi/lo rod assembly to head end gearbox

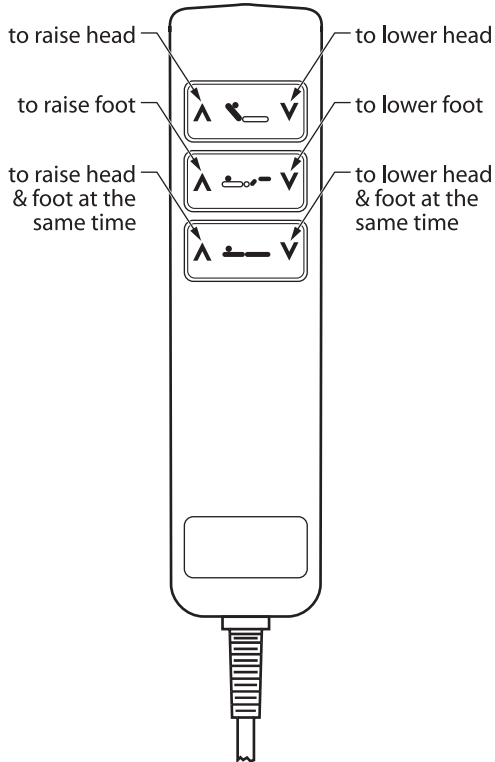
## BED OPERATION

**⚠ CAUTION: ENSURE THAT BED IS SECURE AND ASSEMBLED AS INSTRUCTED ON PREVIOUS PAGES BEFORE OPERATING.**

*Note: In the event of a power failure, use a standard 9V battery to lower the bed's head and foot sections (the 9V battery connection is attached to the motor). When used with the battery, the motor will only lower, not lift, the head and/or foot sections.*

### Full-electric pendant hand control operation

The full-electric pendant hand control is shown below. Use the pendant hand control to raise and lower bed head and foot. Each button has a different function, as noted in the picture.

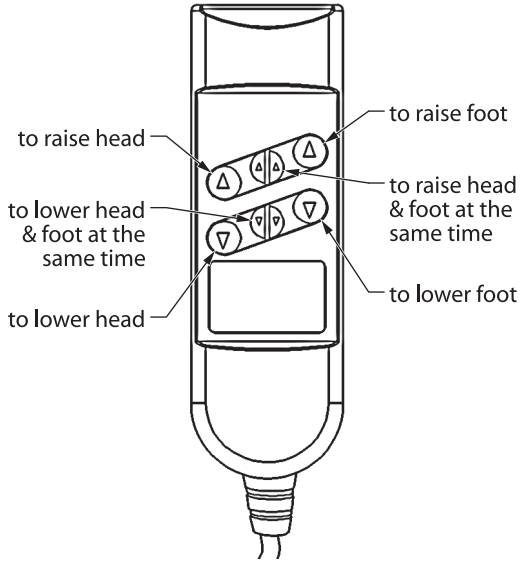


Full-electric  
pendant hand control



## Semi-electric pendant hand control operation

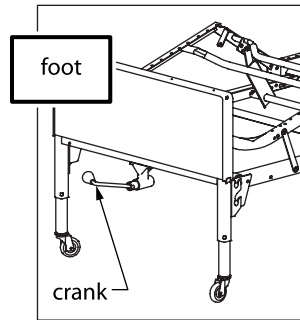
The semi-electric pendant hand control is shown below. Use the pendant hand control to raise and lower bed head and foot. Each button has a different function, as noted in the picture.



Semi-electric  
pendant hand control

## **Crank operation (semi-electric bed only)**

Use the crank at the center foot of the semi-electric bed to change bed height (raise or lower entire deck).



Crank operation

## **Trendelenberg position semi-electric and full-electric beds (head end at lower elevation than foot end)**

1. Lower bed to its lowest height. Disengage the hi/lo rod by compressing the spring fitting and removing the hi/lo rod from the motor or bed end.
2. Raise the foot bed end using the pendant hand control or crank (semi-electric bed only). The head end will remain in the low position.

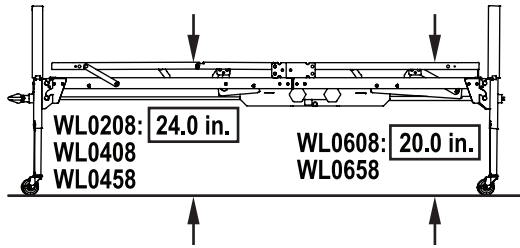
## **Reverse Trendelenberg position semi-electric and full-electric beds (head end at higher elevation than foot end)**

1. Raise bed to its highest height. Disengage the hi/lo rod by compressing the spring fitting and removing the hi/lo rod from the motor or bed end.
2. Lower the foot bed end using the pendant hand control or crank (semi-electric bed only). The head end will remain in the high position.

## SPECIFICATIONS, ALL MODELS

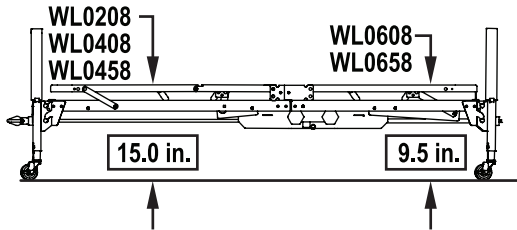
### Deck height: High position

See picture at right.



### Deck height: Low position

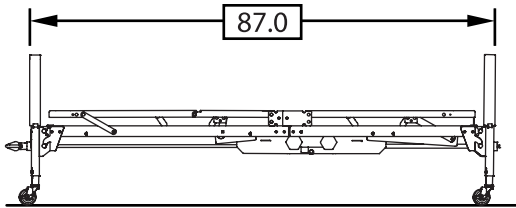
See picture at right.



### Bed length

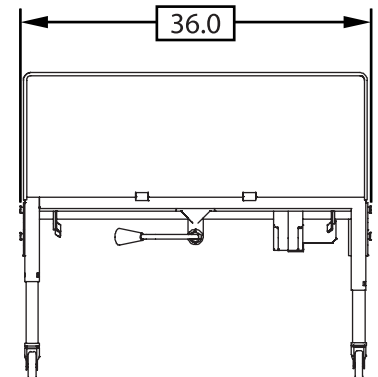
See picture at right.

*Note: To extend spring length (80 in.) to 84 in., install optional kit 690-0084-000 (all beds).*



### Deck width

See picture at right.



## Electrical

- Motor is RU approved.

## Weight

- Normal operating conditions: 450 lbs., evenly distributed including mattress, accessories, rails, etc.
- **Maximum patient weight: 350 lbs.**

## Construction

- Frame: 10 ga (.135) high strength, low alloy steel (roll formed).
- Sleeping surface: 11 ga (.120) cold rolled steel.

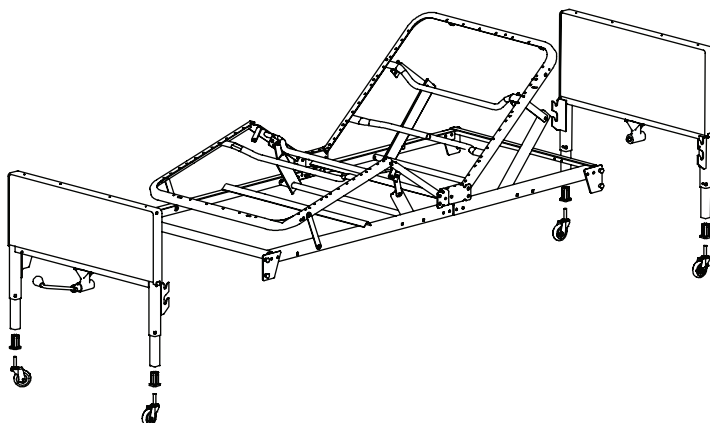
## Finish

- 5 stage bath
  1. S21F acid bath (cleans grease and oil from metal).
  2. Fresh water rinse.
  3. QuiliPhos 20 phosphate coat (inhibits rust and helps maintain electrical charge during powder application).
  4. Fresh water rinse.
  5. QuiliRinse 404 (seals metal for powder coating).
- All parts are then coated with a colored epoxy powder and baked 35 minutes at 375 degrees F. The powder coating finish is approximately 2.5 mils thick. The coating is smooth, uniform finish without runs, wrinkles, or grit.

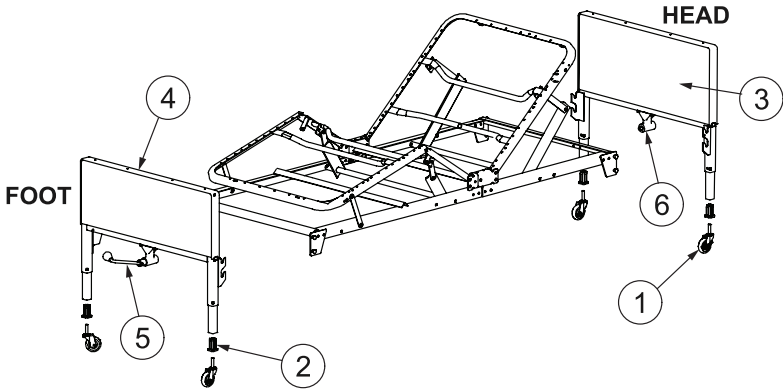
## SERVICE PARTS, ALL MODELS

Service parts for all bed models are shown below and on the following two pages. See picture and table for appropriate service parts.

*Note: To order service parts, contact our Customer Service department at 800-347-5678 (fax 800-726-0601).*

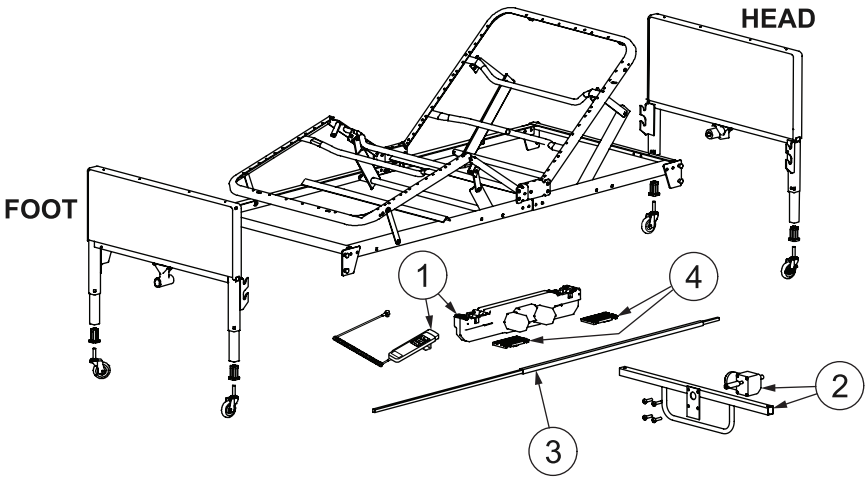


SERVICE PARTS: BED COMPONENTS		Bed Model	Semi-Electric WL0208	Full-Electric Standard WL0408	Full-Electric Low WL0608	Full-Electric Standard WL0458	Full-Electric Low WL0658
Part Number	Description						
690-4100-901	Head section		✓	✓	✓	✓	✓
690-4105-902	Foot section, semi-electric		✓				
690-4104-902	Foot section, full-electric			✓	✓		
690-5104-902	Foot section, full-electric					✓	✓
690-5001-000	End set, manual		✓				
690-5002-000	End set, full-electric standard			✓		✓	
690-5003-000	End set, full-electric low				✓		
690-5004-000	End set, full-electric low						✓



SERVICE PARTS: BED END COMPONENTS			Bed Model	Semi-Electric WL0208	Full-Electric Standard WL0408, WL0458	Full-Electric Low WL0608	Full-Electric Low WL0658
#	Part Number	Description					
	600-5001-000	End set	✓				
	690-5002-000	End set		✓			
	690-5003-000	End set			✓		
	690-5004-000	End set					✓
	600-5001-000H	Headboard	✓	✓			
	600-5003-902	Headboard			✓		
	690-5004-901	Headboard					✓
	600-5001-000F	Footboard	✓				
	600-5001-000E	Footboard		✓			
	690-5003-901	Footboard			✓		
	690-5004-903	Footboard					✓
1	999-0301-904	Caster, set of 4 *	✓	✓	✓	✓	✓
	100-6330-014	Caster w/o lock, each	✓	✓	✓	✓	✓
	100-6330-015	Caster, locking, each	✓	✓	✓	✓	✓
2	100-4200-012	Socket, each	✓	✓	✓	✓	✓
3	554-2001-015	End panel, standard	✓	✓			
3	690-5003-015	End panel, low			✓		
3	690-5004-015	End panel, low					✓
4	554-2001-059	Capping, standard	✓	✓			
4	400-2001-059	Capping, low end			✓		
4	690-5004-059	Capping, low end					✓
5	600-2001-912	Foot elbow, electric		✓	✓	✓	✓
5	600-2001-916	Foot elbow w/crank	✓				
5	999-0353-000	Foot crank only	✓				
6	690-2001-910	Head elbow	✓	✓	✓	✓	✓

\* 2 locking casters, 2 non-locking casters



SERVICE PARTS: ELECTRICAL COMPONENTS			Bed Model				
#	Part Number	Description	Semi-Electric WL0208	Full-Electric Standard WL0408	Full-Electric Low WL0608	Full-Electric Standard WL0458	Full-Electric Low WL0658
1	690-2001-913	Motor & pendant, semi-electric	✓				
	690-2001-411	Pendant, semi-electric	✓				
	690-2001-410	Motor, semi-electric	✓				
1	690-2001-943	Motor & pendant, full-electric		✓	✓		
	690-3001-943	Motor & pendant, full-electric				✓	✓
	690-2001-414	Pendant, full-electric		✓	✓	✓	✓
	690-2001-415	Motor, full-electric		✓	✓		
	690-3001-415	Motor, full-electric				✓	✓
2	690-2001-944	Motor & bracket, hi/lo		✓	✓		
	690-3001-944	Motor & bracket, hi/lo				✓	✓
	690-2001-941	Motor, hi/lo		✓	✓		
	690-3001-941	Motor, hi/lo				✓	✓
3	554-2018-901	Rod assembly, hi/lo	✓	✓	✓	✓	✓
4	690-2001-412	Motor slide covers	✓	✓	✓	✓	✓
5	650-1000-000	End safety hardware (not shown)	✓	✓	✓	✓	✓
6	690-0084-000	84" extension kit (not shown)	✓	✓	✓	✓	✓

## MAINTENANCE AND SAFETY CHECKS

Once per year or between patient placements:

### Electronics

- Check all controls to make sure all functions work properly.
  - Foot control
  - Head control
  - Hi/Lo (if applicable)
- Check all cables for damaged or frayed wires.
  - Power cord
  - Pendant hand control cord
- Check to make sure all plugs are fully inserted or attached.
- Check to make sure all wires are routed and attached properly so not to interfere with any moving parts.

### Bed frame and sleeping surface

- Visually check all welds
  - Head section
  - Foot section
  - Main Frame
- Check joints between sleeping surface sections for loose fasteners.

### Cleaning

- The metal parts of the bed are covered with a powder coating. Clean all coated parts with mild detergent and warm water. Periodically raise head and foot sections of the bed and remove dust from frame. Also, periodically remove mattress and clean mattress deck.

### Lubrication and mechanical

- Lubricate all caster roller and swivel bearings with light machine oil.
- Check all bolts and tighten as needed.



## **WARRANTY**

GF Health Products, Inc. warrants the

**WhisperLite II Model WL0208 Semi-Electric Homecare Bed**

**WhisperLite II Model WL0408/WL0458 Full-Electric  
Homecare Bed**

**WhisperLite II Model WL0608/WL0658 Full-Electric Low Bed**

as follows:

- Two year warranty for defects in workmanship and materials of mechanical components, frame, and electronics.
- During the warranty period, defective items will be repaired or replaced at manufacturer's option at no charge.

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