

# **LUMEX**<sup>®</sup>

## **★★★ PATRIOT<sub>LX</sub>**

### **US5000 SEMI-ELECTRIC AND US6000 FULL ELECTRIC HOMECARE BED**



## **USER MANUAL**

**US5000-INS-LAB-RevA14  
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**Read this manual before operating your Patriot LX Homecare Bed.**

**Save this manual for future use.**

**The most current version of this manual can be found online at  
[www.grahamfield.com](http://www.grahamfield.com).**

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# 1 INTRODUCTION

## INTENDED USE

The intended use of the Patriot LX Homecare Bed is sleeping and resting in a homecare setting. The bed may be used for alleviation of or compensation for an injury, disability or illness, and for easing the working condition of the caregiver. This bed is suitable for adult patients; this bed is not suitable for children. Only the patient's health professional can determine the suitability of this homecare bed.

## Contraindications

**⚠ WARNING:** Use this device only as intended and described in this manual. Do not use attachments or accessories not recommended by GF Health Products, Inc.

**⚠ WARNING:** This bed is not intended for use by children.

**⚠ WARNING:** Under normal operating conditions, this product has a maximum working load / maximum total weight capacity of 450 lb (204 kg), **EVENLY DISTRIBUTED**, including patient, mattress, accessories, rails, etc.

**This product has a maximum patient weight capacity of 350 lb (158 kg), **EVENLY DISTRIBUTED**.**

**⚠ WARNING:** **DO NOT** use this product in the presence of flammable anesthesia. There is a possible fire hazard when this product is used with certain oxygen delivery equipment. Use **ONLY** nasal cannula or face mask to deliver oxygen in the presence of this product.

## 2 IMPORTANT SAFETY INSTRUCTIONS

**⚠ IMPORTANT:** Before using the Patriot LX Homecare Bed, please read and adhere to the following safety precautions and warnings. Failure to do so could result in serious personal injury or damage to the Patriot LX Homecare Bed.

Always consult your healthcare professional to determine safe methods most suitable for your individual abilities. Protect yourself, your attendant, and the Patriot LX Homecare Bed by having it serviced regularly. If you experience any malfunction, contact your Graham-Field authorized distributor immediately, as a hazardous condition could result, causing personal injury or damage to your Patriot LX Homecare Bed.

Periodic inspection, adjustment and replacement of worn parts are necessary to provide years of excellent service. Refer to *CARE AND MAINTENANCE* section of this manual.

Maintenance **MUST** be performed by qualified personnel **ONLY**.

**SAVE THESE INSTRUCTIONS.**

### Significance of safety statements

Please note the following special statements, used throughout this manual, and their significance:

- ⚠ DANGER:** Indicates a potential hazard situation or unsafe practice that, if not avoided, will result in death or serious personal injury.
- ⚠ WARNING:** Indicates a potential hazard situation or unsafe practice that, if not avoided, could result in death or serious personal injury.
- ⚠ CAUTION:** Indicates a potential hazard situation or unsafe practice that, if not avoided, could result in minor or moderate personal injury.
- ▲ NOTICE:** Indicates a potential hazard situation or unsafe practice that, if not avoided, could result in product or property damage.

*Info: Provides application recommendations or other useful information to ensure that you get the most from your product.*

### DANGER / WARNING / CAUTION / NOTICE SUMMARY

#### DANGER: To Reduce the Risk of Electric Shock:

- ⚠ DANGER:** Always unplug the bed from the electrical outlet before cleaning.

#### WARNING: To Reduce the Risk of Burns, Fire, Electric Shock, or Personal Injury:

- ⚠ WARNING:** Important! Read and understand these instructions before assembling or using the Lumex Patriot LX Homecare Bed. If you do not understand any part of these warnings, cautions or instructions, contact a healthcare professional for direction in the use of this product. If the Lumex Patriot LX Homecare Bed is not properly assembled, personal injury and damage to the bed could result.
- ⚠ WARNING:** If components are damaged or missing, contact your Graham-Field authorized distributor immediately. **DO NOT** use substitute parts. Use only Lumex replacement parts. The use of non-Lumex replacement parts could cause personal injury, property damage, and void the warranty.
- ⚠ WARNING:** Unauthorized modification of your Patriot LX Homecare Bed could cause personal injury, property damage, and void the warranty.

**⚠ WARNING:** Under normal operating conditions, this product has a maximum working load / maximum total weight capacity of 450 lb (204 kg), **EVENLY DISTRIBUTED**, including patient, mattress, accessories, rails, etc.

This product has a maximum patient weight capacity of 350 lb (158 kg), **EVENLY DISTRIBUTED**.

**⚠ WARNING:** Ensure that body weight is evenly distributed over the surface of the bed. Do not lie, sit, or lean in such a way that your entire body weight is placed only on the raised head or foot section of the bed. This includes when assisting the user in repositioning or transferring in or out of bed.

**⚠ 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 ANY bed change of position, **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.

**⚠ WARNING:** Before operation, ensure that the bed frames are properly seated and locked in place.

**⚠ WARNING:** Keep all moving parts free of obstruction (i.e. blankets, sheets, heating blankets, pads, tubing, wiring, and other types of products).

**⚠ WARNING:** Ensure that Headboard, Footboard, and Locking Hardware installation have been performed properly per instructions in order to prevent personal injury when moving the bed or using a bed-mount trapeze.

**⚠ WARNING:** **WARNING / CAUTION** labels applied to the bed outline hazards or unsafe practices that could result in personal injury and / or property damage; do not remove them.

**⚠ WARNING:** When assembling the bed, ensure the power cord has been properly cable-tied to the frame so that it cannot be pinched or caught on any part of the bed during normal operation of the bed.

**⚠ WARNING:** Ensure the power cord and Hi / Lo Motor cords **DO NOT** get tangled around the bed, bed rails, or legs during normal operation of the bed.

**⚠ WARNING:** Use this device only as intended and described in this manual. Do not use attachments or accessories not recommended by GF Health Products, Inc.

**⚠ WARNING:** Never operate this product if:

- a. it has a damaged cord or plug,
- b. it is not working properly,
- c. it has been dropped or damaged, or
- d. it has been dropped into water.

If so, return the product to your Graham-Field authorized distributor for examination and repair.

**⚠ WARNING:** Keep the cord away from heated surfaces.

**⚠ WARNING:** Do not leave the bed unattended when plugged in.

**⚠ WARNING:** Always unplug the bed from the electrical outlet before installing or removing parts.

**⚠ WARNING:** To disconnect the bed, remove the plug from the electrical outlet.

**⚠ WARNING:** Do not use the Patriot LX outdoors.

- ⚠ WARNING:** Check all parts for shipping damage before using. In case of damage, **DO NOT USE** the equipment. Contact the carrier or your Graham-Field authorized distributor for further instructions.
- ⚠ WARNING:** Notice for California Customers- California Proposition 65 **WARNING:** This product contains a chemical known to the State of California to cause cancer and reproductive or developmental harm.
- ⚠ WARNING:** GF Health Products, Inc. assumes no responsibility for any damage or injury caused by improper assembly or use of this product.
- ⚠ WARNING:** GF Health Products, Inc. specifically disclaims responsibility for any bodily injury or property damage which may occur during any use which does not comply with federal, state or local laws or ordinances.

**NOTICE: To Reduce the Risk of Product or Property Damage:**

- ▲ NOTICE:** The pendant hand control cord must be routed and secured properly to ensure that the cord does **NOT** become entangled and eventually severed during use.
- ▲ NOTICE:** 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 the Patriot LX.

### **3 HANDLING PROCEDURES**

#### **SHIPPING AND TRANSPORTATION INSTRUCTIONS**

If the Patriot LX Homecare Bed is to be reshipped by common carrier, it should be packed in the same carton in which it was received.

##### **Unpacking**

The Patriot LX is shipped in two cartons: a Head Section Carton and a Foot Section Carton. The Head Section Carton contains the Head Section as well as a box that contains the Motor, Pendant, Panel Mount Tubes, and Hardware. The Foot Section Carton contains the Foot Section, Headboard, and Footboard.

1. Check for any obvious damage to the carton or its contents. If damage is evident, notify the carrier or your Graham-Field authorized distributor.
2. Remove all loose packing from the carton.
3. Carefully remove all the components from the carton.

***Info: Unless the Patriot LX Homecare Bed is to be used immediately, retain boxes, containers and packing material for use in storing until use of Bed is required.***

##### **Inspection**

1. Examine the exterior of the Patriot LX Homecare Bed for nicks, dents, scratches or other damage.
2. Inspect all components.

##### **Storage**

1. Store the repackaged Patriot LX Homecare Bed in a dry area.
2. DO NOT place other objects on top of the repackaged bed.

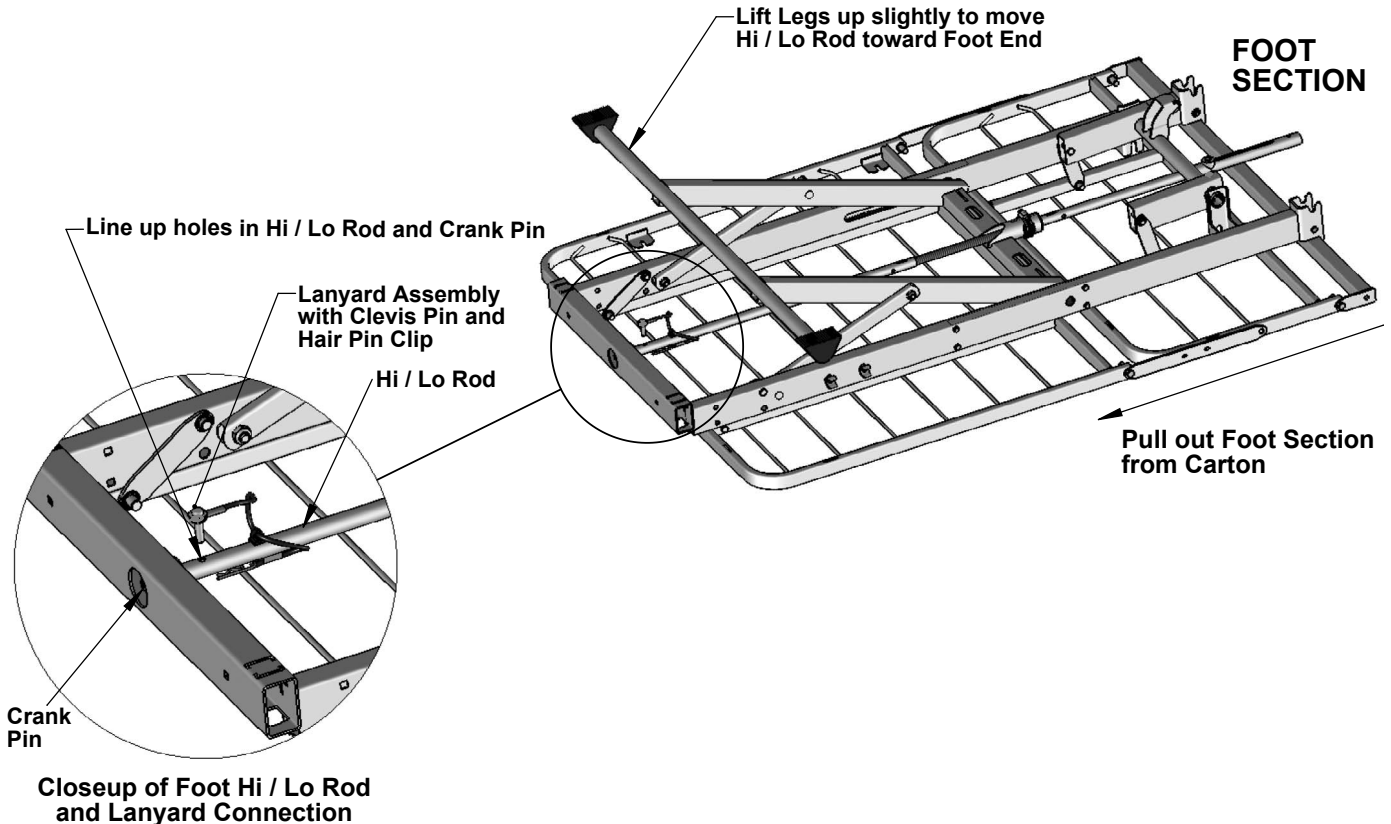
## 4 ASSEMBLY INSTRUCTIONS

### ASSEMBLY INSTRUCTIONS: US5000 SEMI-ELECTRIC

▲ **NOTICE:** Perform the steps on this page first after removal of bed from carton. The Manual Hi / Lo Drive Rod (Hi / Lo Rod) must first be attached to each bed section and secured with the Lanyard **BEFORE** assembling the Patriot LX sections together.

#### US5000 SEMI-ELECTRIC: MANUAL HI / LO DRIVE ROD ATTACHMENT TO FOOT SECTION AND HEAD SECTION

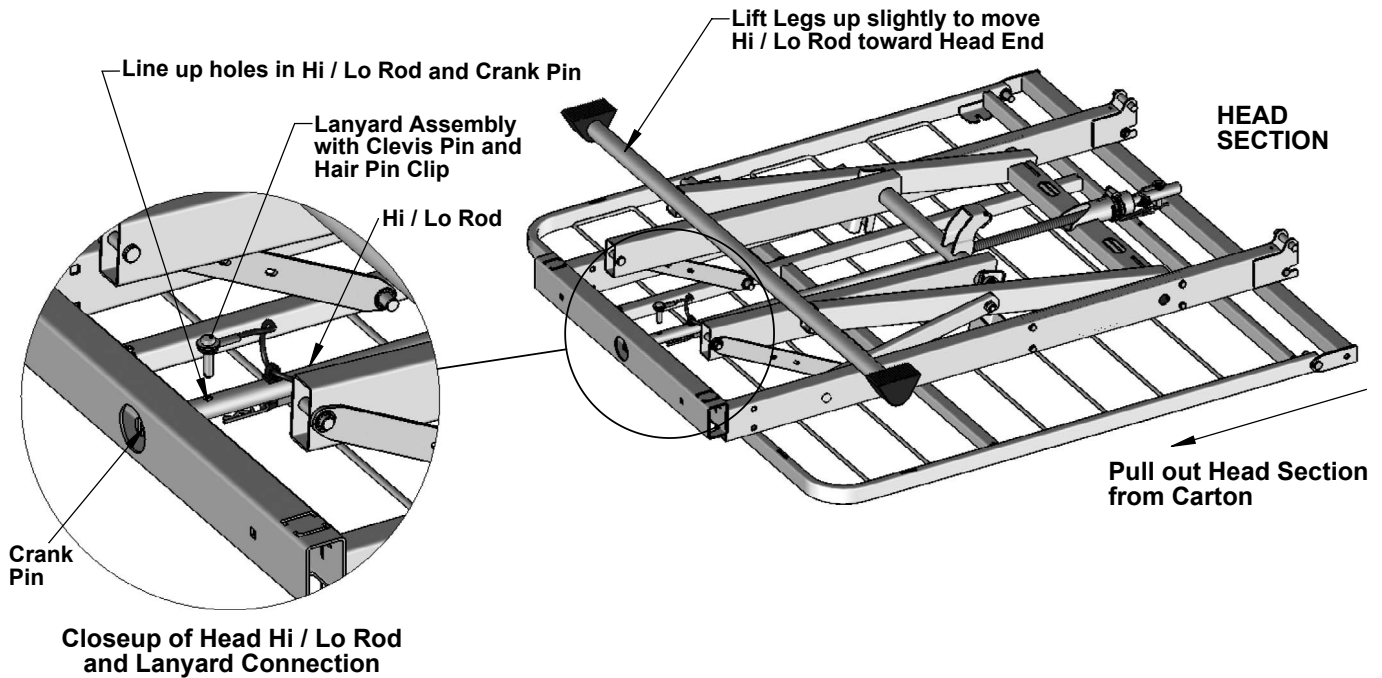
##### US5000 Semi-Electric: Manual Hi / Lo Drive Rod to Foot Section Attachment



1. Pull the Foot Section out of the packaging carton and lay it flat, resting on decks, as shown at right above.
2. Release the Hair Pin Clip from the Clevis Pin on the Lanyard near the foot end of the Hi / Lo Rod shown in the Closeup above.
3. Lift the leg weldment up slightly until the Hi / Lo Rod slips fully onto the Crank Pin and the small holes line up.
4. Insert the Clevis Pin through the holes and secure it with the Hair Pin Clip.

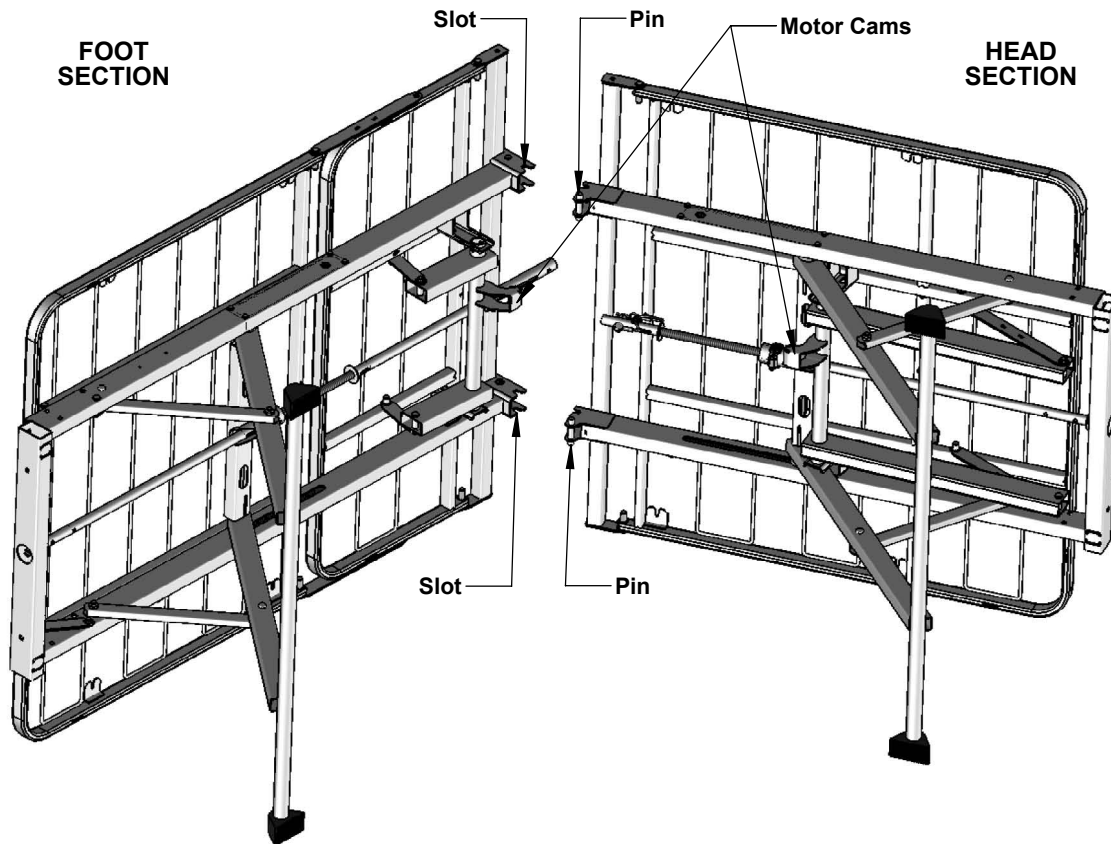


## US5000 Semi-Electric: Manual Hi / Lo Drive Rod to Head Section Attachment

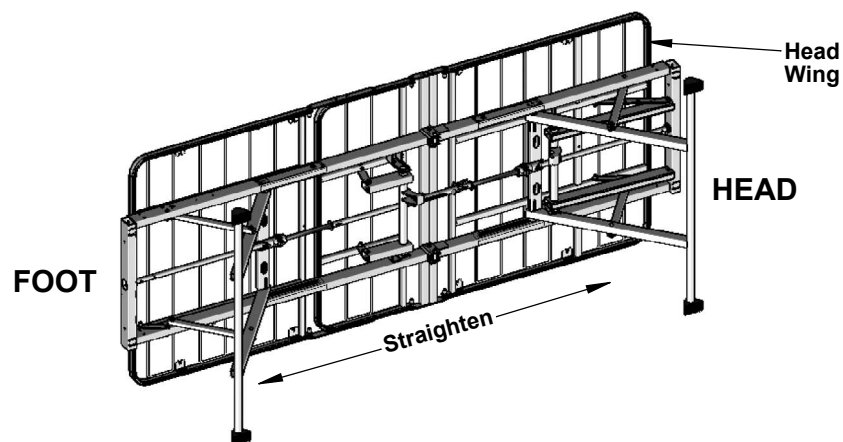


1. Pull the Head Section out of the packaging carton and lay it flat, resting on decks, as shown above.
2. Release the Hair Pin Clip from the Clevis Pin on the Lanyard situated near the head end of the Hi / Lo Rod.
3. Lift the leg weldment up slightly until the Hi / Lo Rod slips fully onto the Crank Pin and the small holes line up.
4. Insert the Clevis Pin through the holes and secure it with the Hair Pin Clip.

## US5000 SEMI-ELECTRIC: HEAD SECTION TO FOOT SECTION ASSEMBLY



1. Place the Head and Foot Sections on their sides at approximately right angles to each other with Motor Cams up, as shown above.
2. Slide the Head and Foot Sections together until the Head Section's Pins seat into the Foot Section's Slots on both sides. Ensure the Pins are completely seated before continuing.

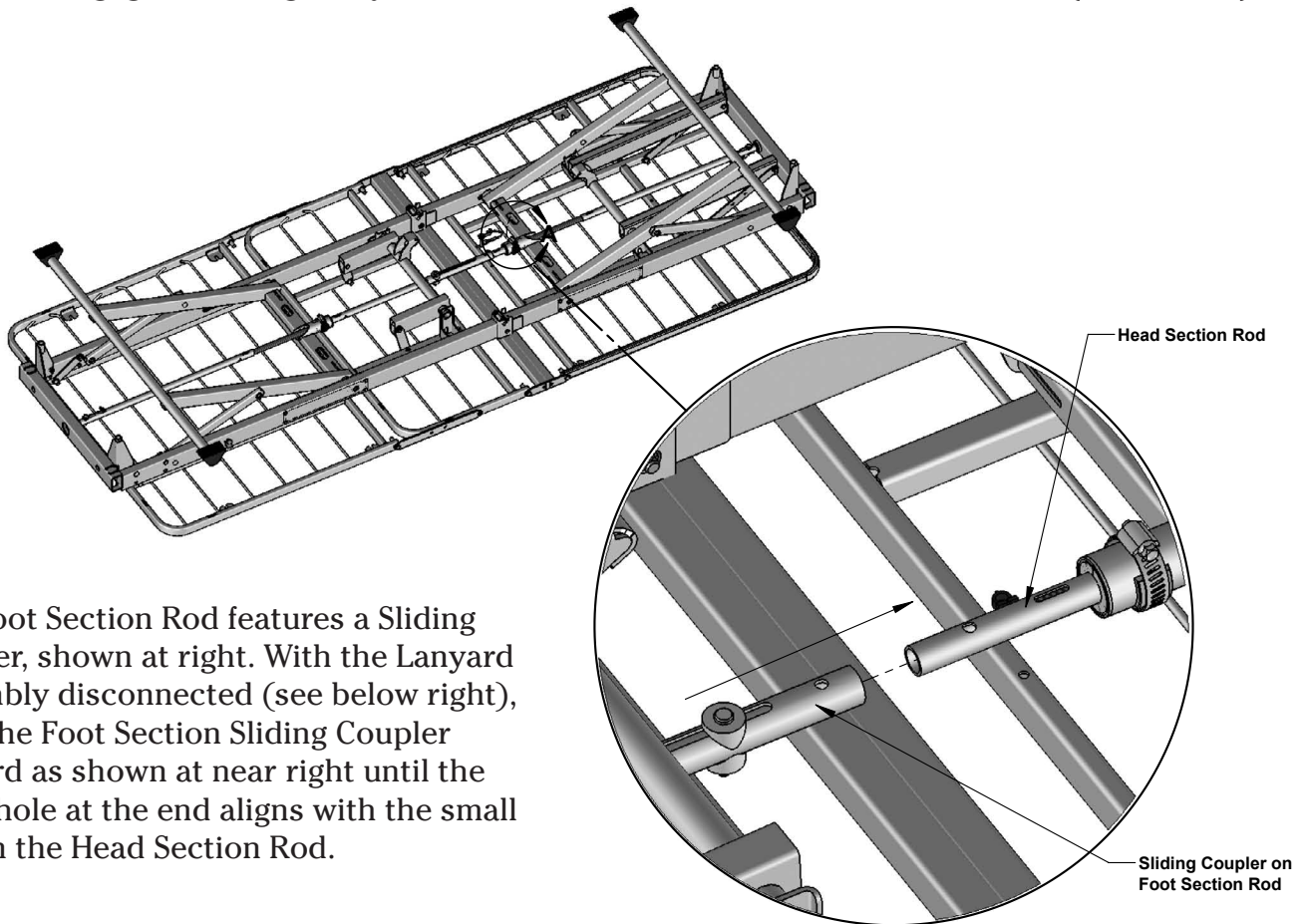


3. With the Pins fully seated in the Slots as described in step 2, rotate and straighten the bed as shown above. Position Head Wing as shown above.

## US5000 SEMI-ELECTRIC: HEAD SECTION TO FOOT SECTION ROD CONNECTION

### Sliding Foot Section Coupler onto Head Section Rod

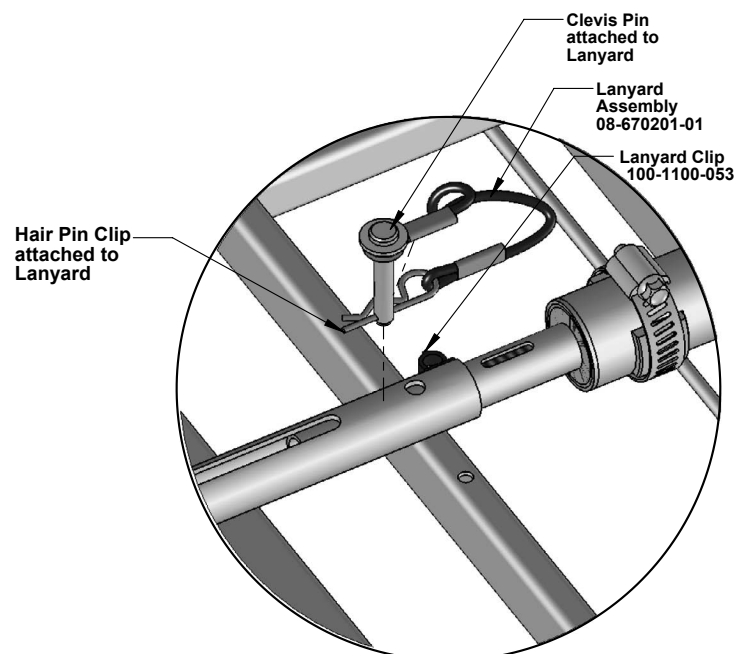
1. Ensure the Head and Foot Sections have been properly assembled as described.
2. Once the Head Section Pins have been properly seated into the Foot Section Slots and the Decks are engaged and aligned, you must connect the Manual Hi / Lo Drive Rod (Hi / Lo Rod).



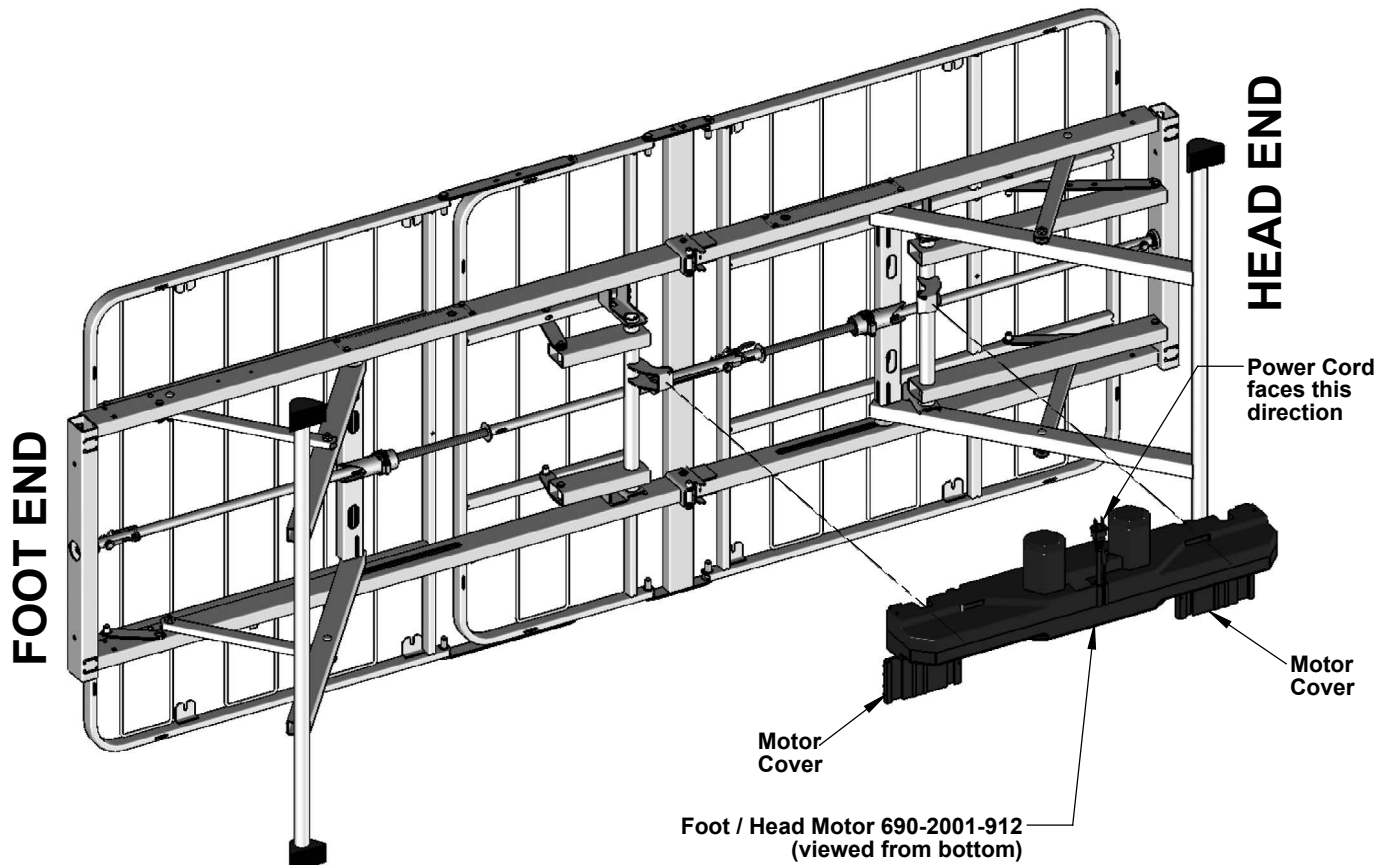
3. The Foot Section Rod features a Sliding Coupler, shown at right. With the Lanyard Assembly disconnected (see below right), slide the Foot Section Sliding Coupler forward as shown at near right until the small hole at the end aligns with the small hole in the Head Section Rod.

### Insertion of Retaining Lanyard

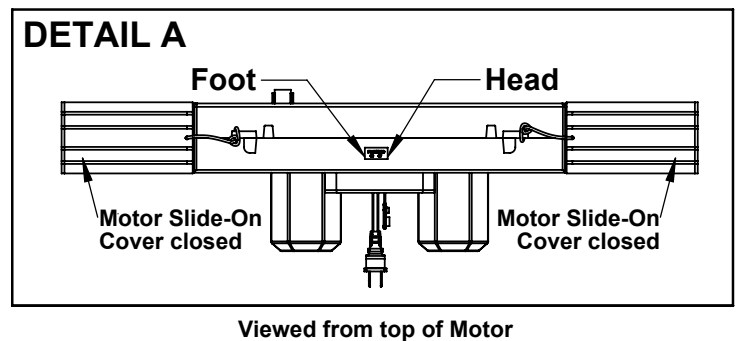
1. The Lanyard Assembly (690-8001-960) should come pre-assembled with a Clevis Pin, Washer, External Retaining Ring, Lanyard, and Hair Pin Clip. It should also be attached to the Lanyard Clip (100-1100-053) on the side of the Hi / Lo Rod.
2. If the Hair Pin Clip is assembled within the end of the Clevis Pin, pull it out.
3. Align the Coupler hole with the Hi / Lo Rod hole and insert the Clevis Pin.
4. From the bottom, re-insert the Hair Pin Clip into the end of the Clevis Pin to secure.



## US5000 SEMI-ELECTRIC: FOOT / HEAD MOTOR INSTALLATION

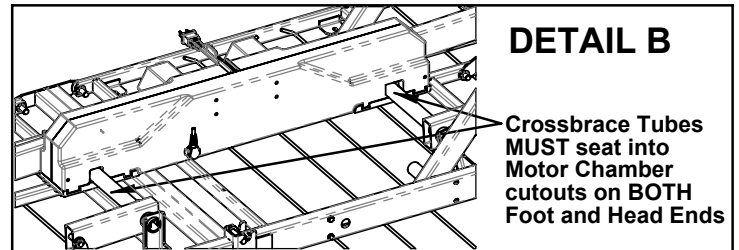
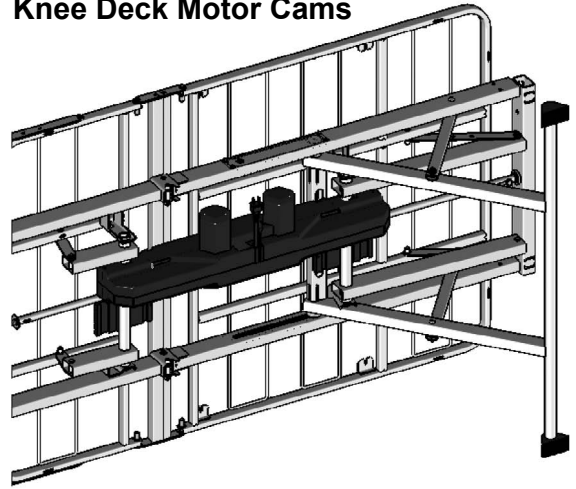


1. Lay the bed deck on its side with legs extended as shown above. Ensure bed Head and Foot Sections are connected as described on pages 8, 9, 10 and 12.
2. Slide the Motor Covers outward and let them dangle — they should be attached with Lanyards to prevent misplacement.
3. Position the Foot / Head Motor so the Power Cord is facing upward as shown above. There is a label on the top of the motor which indicates Head and Foot direction as shown in DETAIL A at right.



4. Align the two large rectangular holes (Motor Cam Chambers) on the Motor Ends with two Motor Cams - one on the Head Section and one on the Foot Section - as shown at right.
5. Push the Motor onto the Cams, ensuring the Crossbrace Tubes are seated within the Motor Cam Chamber cutouts as shown in DETAIL B at lower right.
6. Once the Motor is in place, push with enough force to snap it onto the Cams to secure it.
7. **IMPORTANT:** Replace the two Motor Covers by sliding them back into place as shown in DETAIL A on previous page.

**Motor hooked onto Head Deck and Knee Deck Motor Cams**

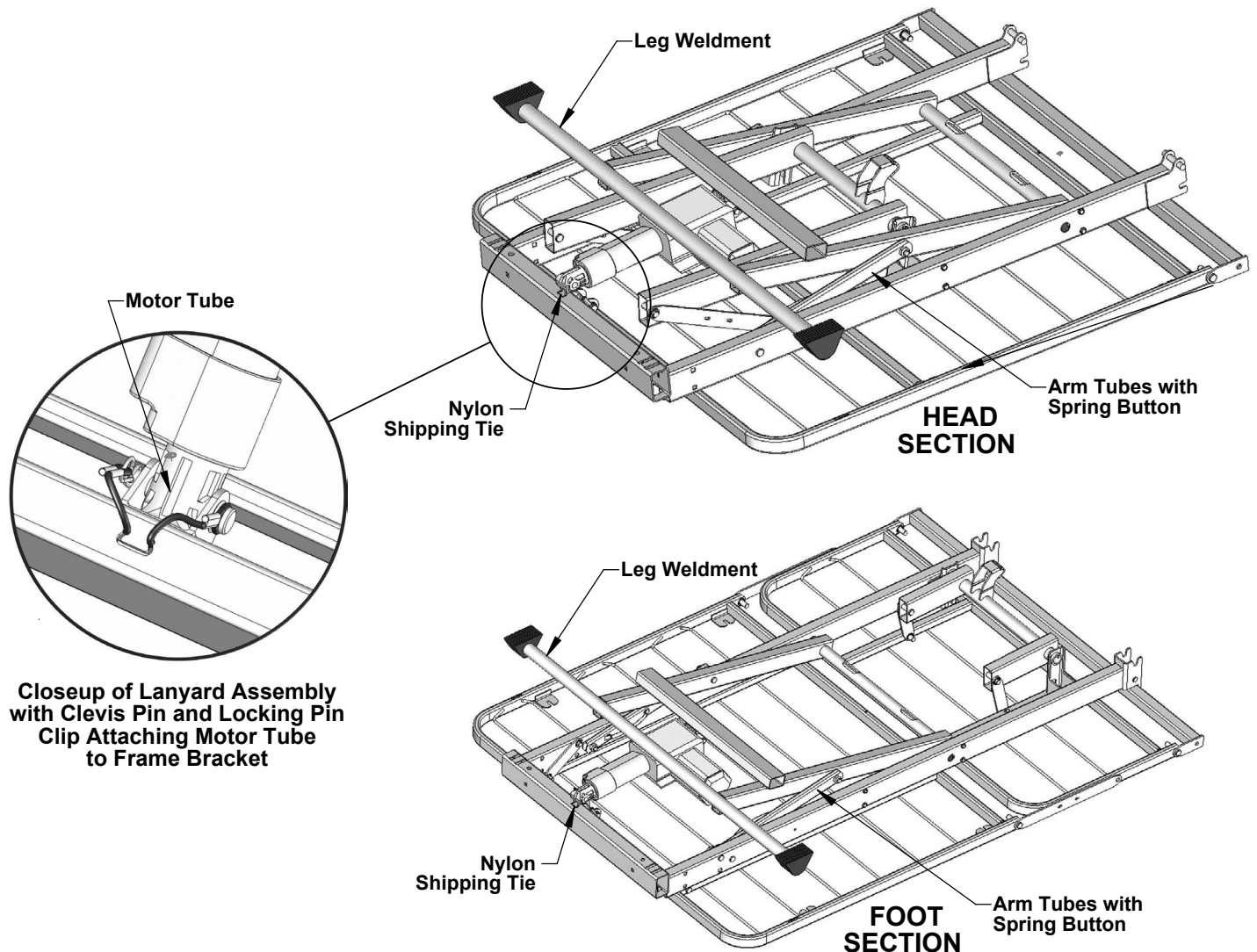




## ASSEMBLY INSTRUCTIONS: US6000 FULL ELECTRIC

▲ **NOTICE:** Perform the steps on this page first after removal of bed from carton. The Hi / Lo Motor must first be attached to each bed section and secured with the Lanyard **BEFORE** assembling the Patriot LX sections together.

### US6000 FULL ELECTRIC: HI / LO MOTOR ASSEMBLY, HEAD SECTION AND FOOT SECTION



1. Slide the Head or Foot Section out of the carton and lay it flat, deck grid down, as shown at right above.
2. The motor tube is secured to the end frame with a nylon shipping tie. Cut off and remove the nylon shipping tie. Do not remove the Lanyard and Pin Assembly attached to the frame.
3. Lift the leg weldment slightly to allow the arm tube spring pins to pop out. Lower the leg weldment until the spring pins are flush against the bed frame. Align the motor tube holes with the motor mount U-bracket holes.

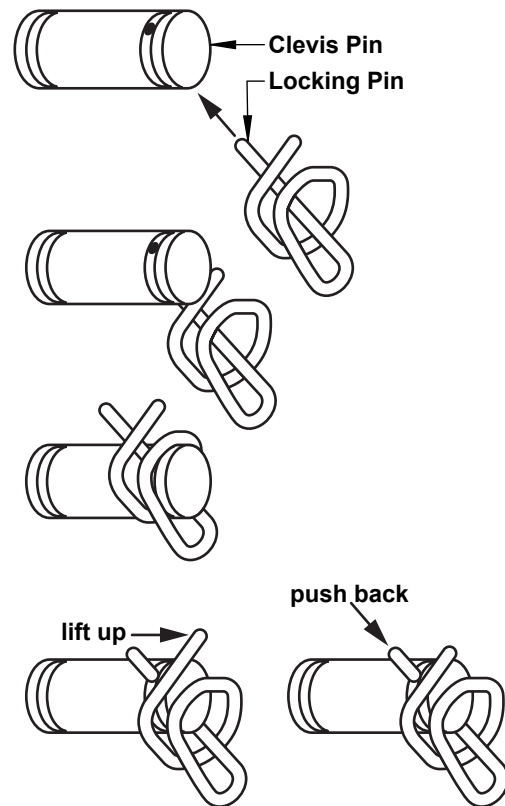
The motor tube can be extended by turning the motor tube clockwise several times if minor adjustment is still necessary.

4. Insert the clevis pin through the holes and secure with the locking pin. See the following instruction for locking pin installation.

**Info:** When the legs are lifted to align the holes in step 3, the spring buttons in the leg arm tubes will be released and prevent the legs from returning to the low shipping position. Once the Hi / Lo Motor is attached there is no need to disassemble the clevis pin and motor again unless you are inserting it back into the shipping carton. After you disassemble the motor for carton reuse, the arm spring pins will have to be depressed manually to allow the legs to lower to shipping height.

### Motor Locking Pin Installation (Refer to Pictures at Right)

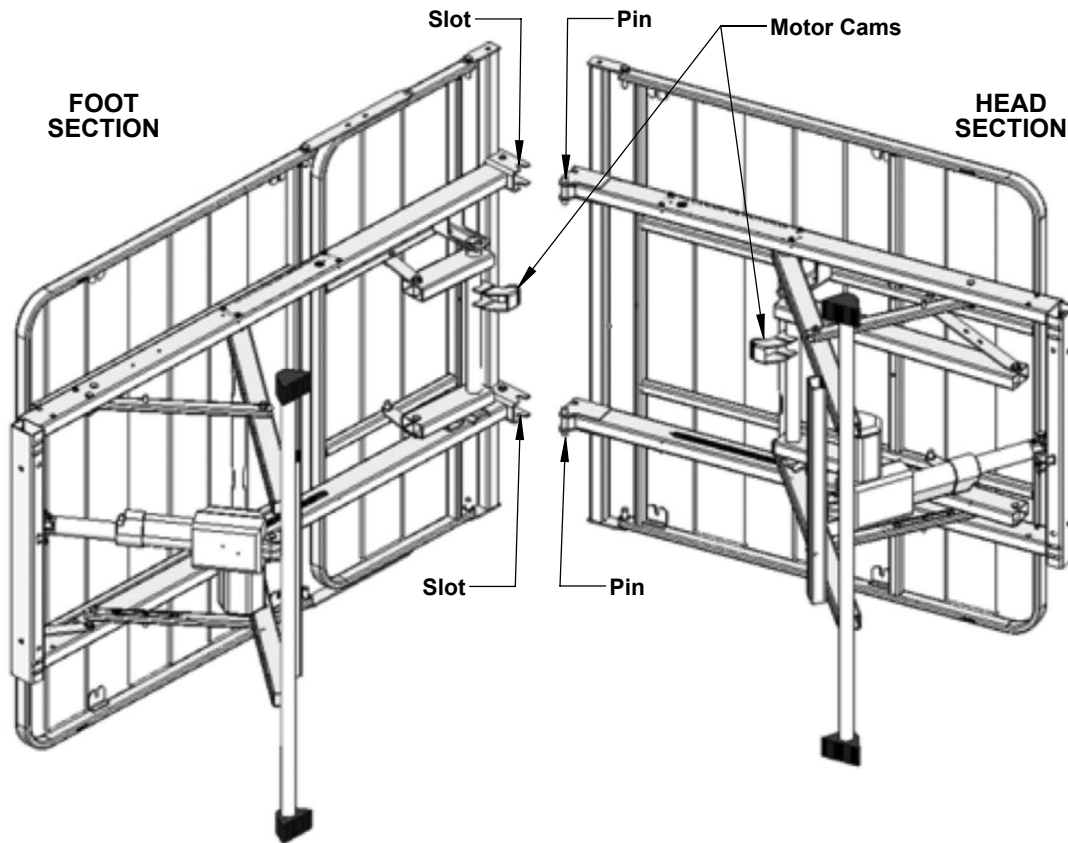
1. Insert locking pin into clevis pin hole.
2. Install locking pin through clevis pin hole.
3. Locking pin is shown locked into place on clevis pin.
4. To remove locking pin: lift locking pin up and push it back through clevis pin hole and out of clevis pin.



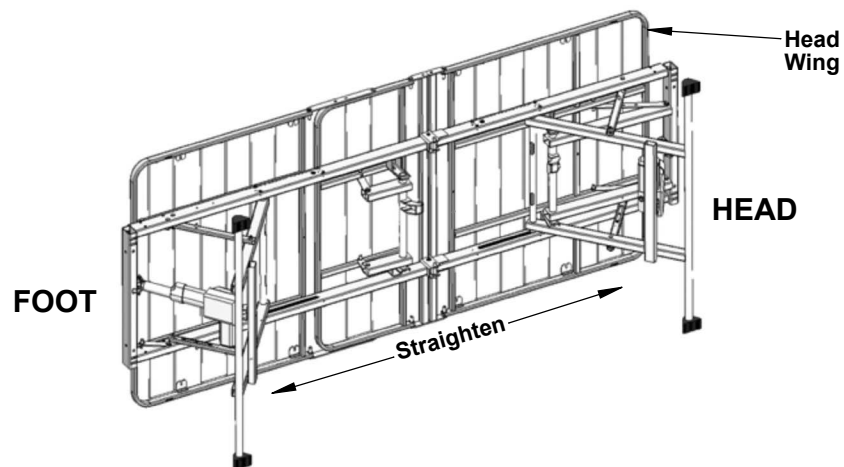
Motor tube is shown at right locked into place.



## US6000 FULL ELECTRIC: HEAD SECTION TO FOOT SECTION ASSEMBLY



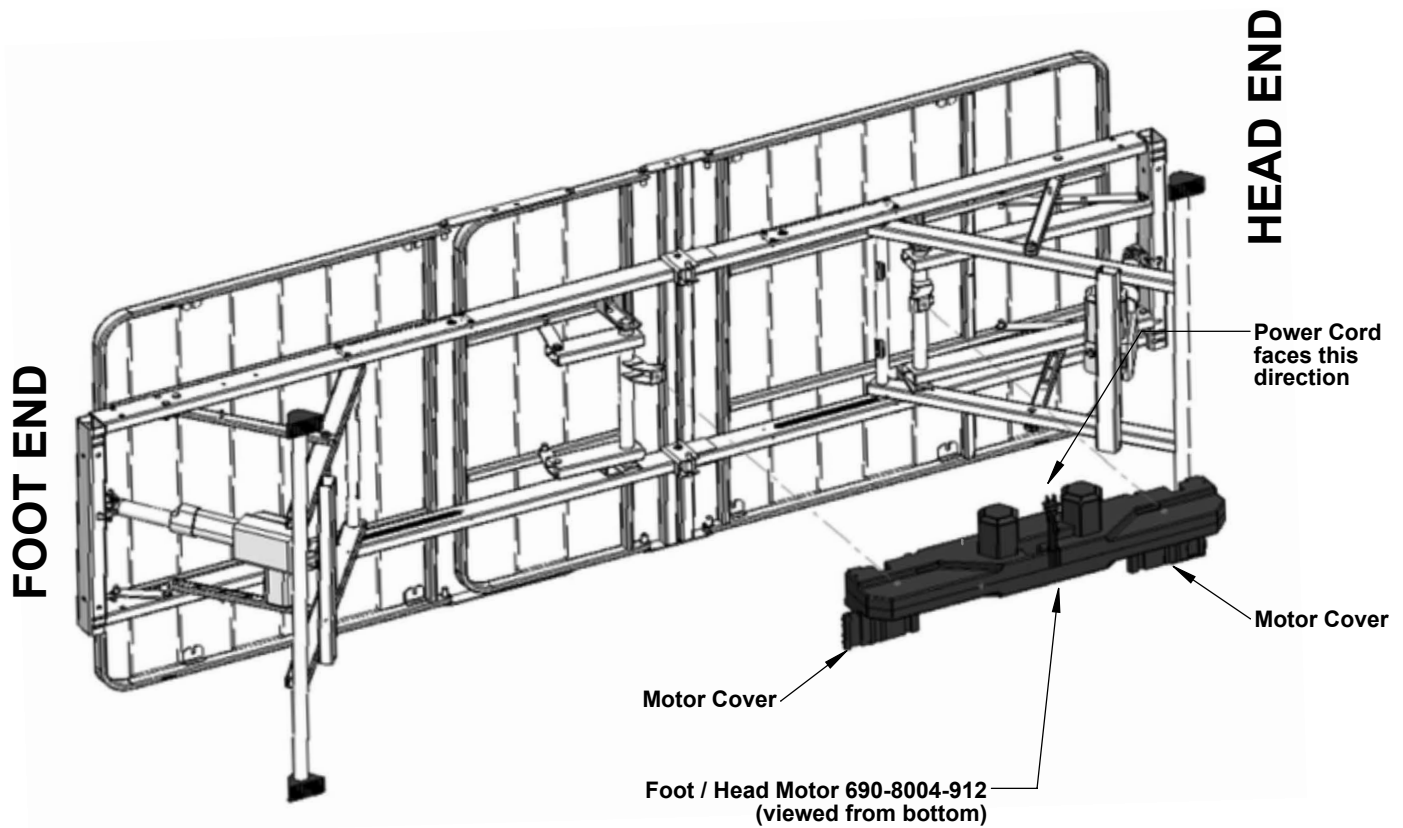
1. Place the Head and Foot Sections on their sides at approximately right angles to each other with Motor Cams up, as shown above.
2. Slide the Head and Foot Sections together until the Head Section's Pins seat into the Foot Section's Slots on both sides. Ensure the Pins are completely seated before continuing.



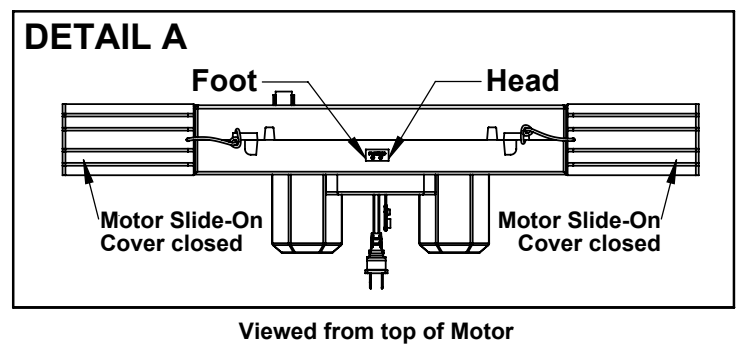
3. With the Pins fully seated in the Slots as described in step 2, rotate and straighten the bed as shown above. Position Head Wing as shown above.



## US6000 FULL ELECTRIC: FOOT / HEAD MOTOR INSTALLATION

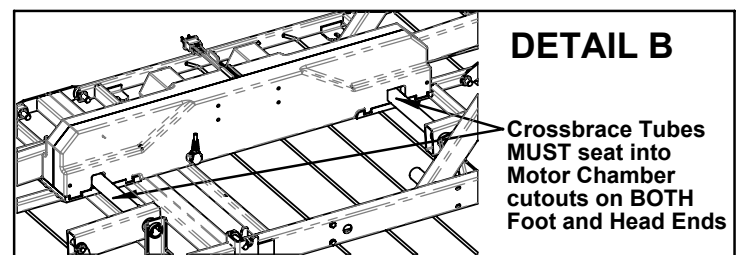
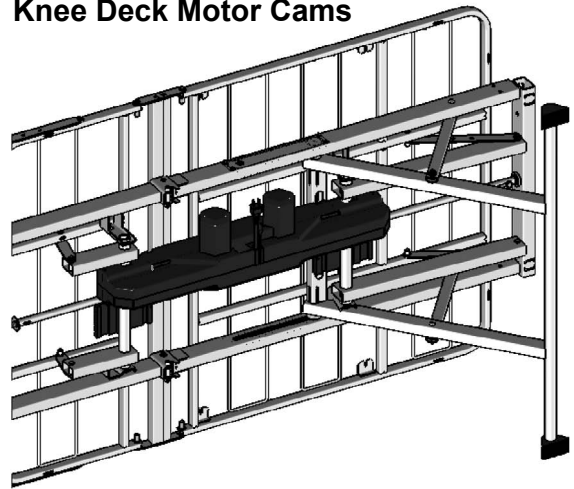


1. Lay the bed deck on its side with legs extended as shown above. Ensure bed Head and Foot Sections are connected as described on pages 8, 9, 11 and 12.
2. Slide the Motor Covers outward and let them dangle — they should be attached with Lanyards to prevent misplacement.
3. Position the Foot / Head Motor so the Power Cord is facing upward as shown above. There is a label on the top of the motor which indicates Head and Foot direction as shown in DETAIL A at right.

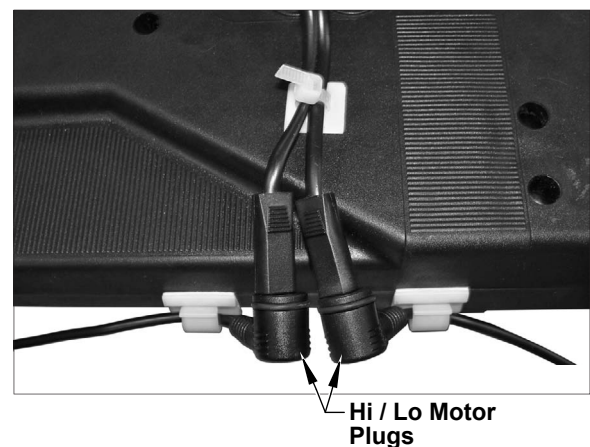
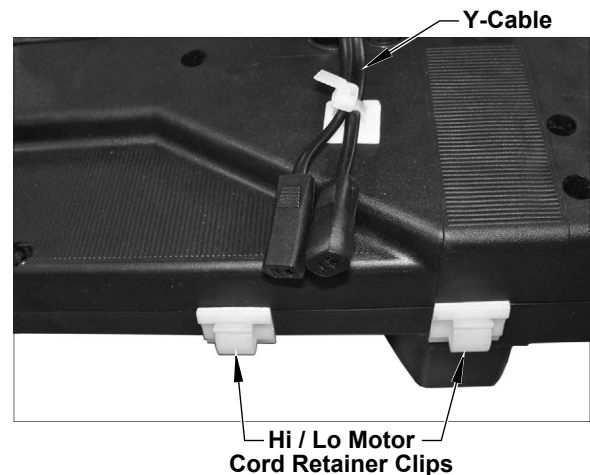


4. Align the two large rectangular holes (Motor Cam Chambers) on the Motor Ends with two Motor Cams - one on the Head Section and one on the Foot Section - as shown at right.
5. Push the Motor onto the Cams, ensuring the Crossbrace Tubes are seated within the Motor Cam Chamber cutouts as shown in DETAIL B at lower right.
6. Once the Motor is in place, push with enough force to snap it onto the Cams to secure it.
7. **IMPORTANT:** Replace the two Motor Covers by sliding them back into place as shown in DETAIL A on previous page.

**Motor hooked onto Head Deck and Knee Deck Motor Cams**

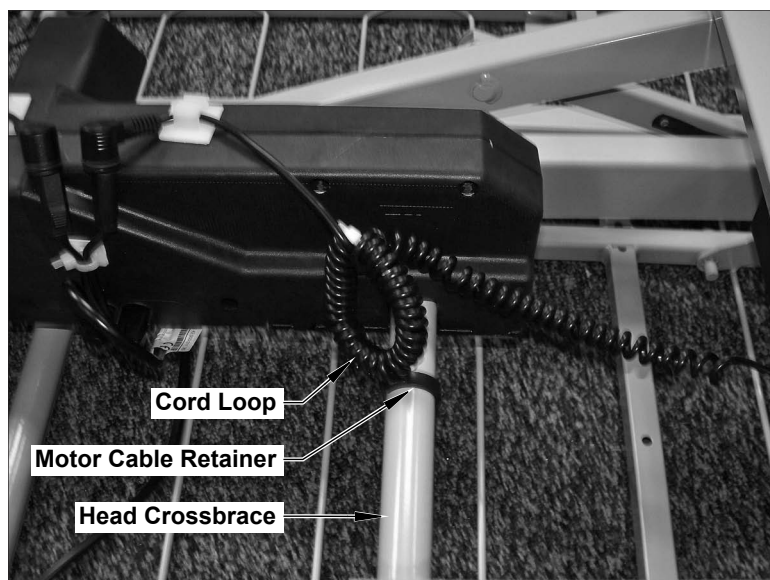


8. After the Head / Foot Motor has been installed and the Slide Motor Covers have been attached, take note of the Hi / Lo Motor Cord Routings shown on the next page. The Head Motor Cord with loop is retained under the Head Motor Crossbrace Tube. The Foot Motor Cord is retained under the Leg Lift Tube but is routed over the Knee Motor Crossbrace Tube.
9. With the Motor Cords routed properly, plug the Hi / Lo Motor Plugs into the Y-Cable secured to the Head / Foot Motor.
10. After plugging in the Hi / Lo Motors, insert the Motor Cords below the Motor Plugs into the Cord Retainer Clips. Insure the Motor Plugs are completely inserted into the Y-Cable and the Y-Cable is completely inserted into the Head / Foot Motor Port, next to the Pendant Port.



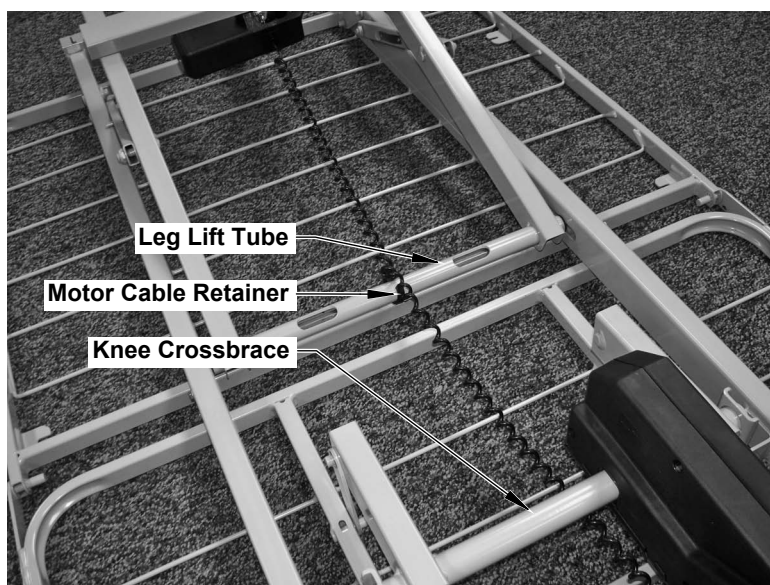
## US6000 FULL ELECTRIC: HI / LO MOTOR CORD ROUTING

The Head Motor Cord has been looped at the factory to shorten the coiled cord and held with a Cable Retainer under the Head Motor Crossbrace. The view at right shows underside of bed.



**Head Hi / Lo Motor Routing**

The Foot Motor Cord is secured under the Foot Leg Lift Tube. When plugging in Foot Motor route the motor cord over the Knee Motor Crossbrace. The view at right shows underside of bed.



**Foot Hi / Lo Motor Routing**

## ASSEMBLY INSTRUCTIONS: US5000 / US6000

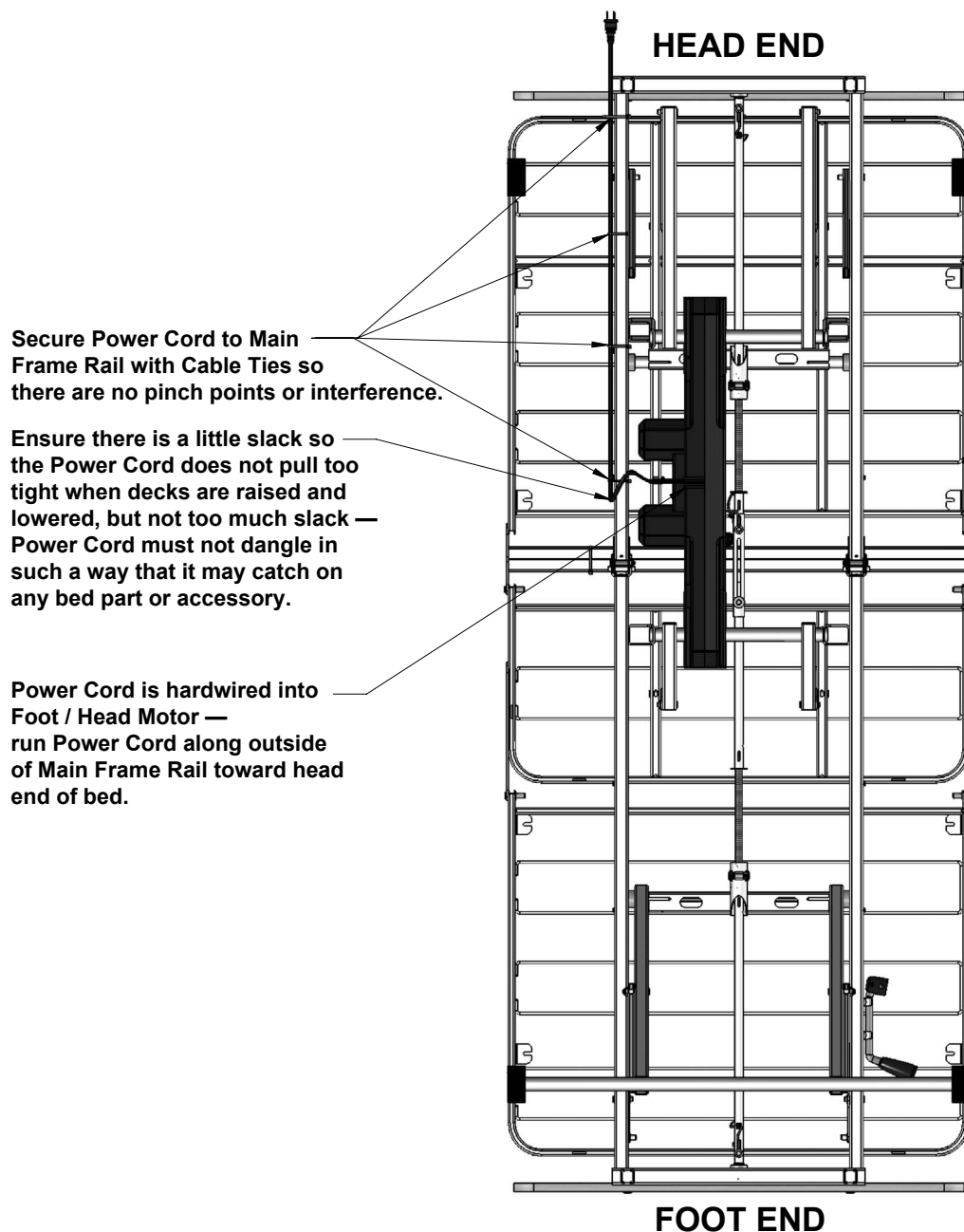
### US5000 / US6000: POWER CORD ROUTING AND ATTACHMENT TO MAIN FRAME RAIL

After bed assembly, secure the Power Cord to the Main Frame Rail with Cable Ties so that there are no pinch points or interference.

Ensure there is a little slack so the Power Cord does not pull too tight when decks are raised and lowered, but not too much slack — the Power Cord must not dangle in such a way that it may catch on any bed part or accessory.

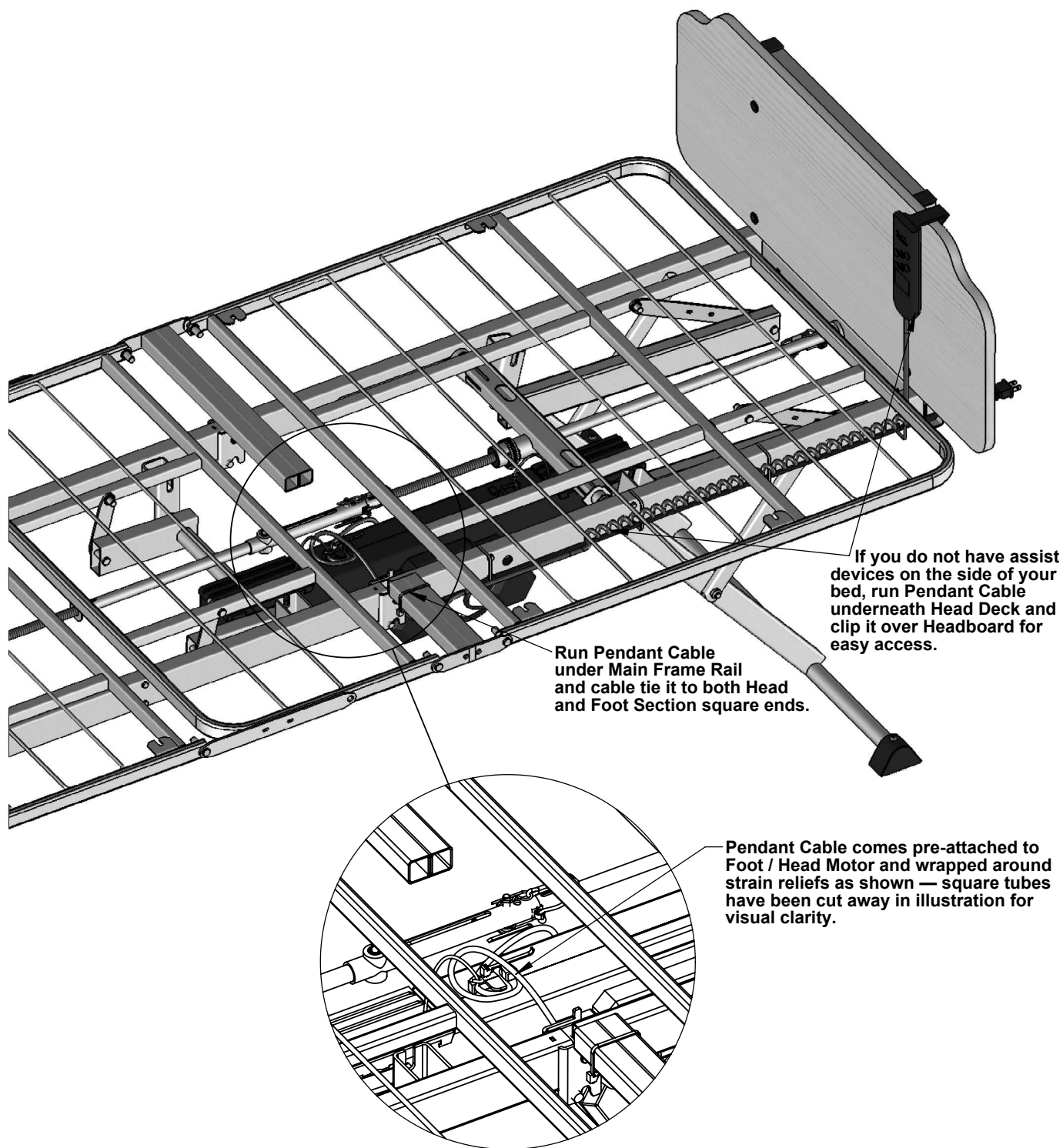
The Power Cord is hardwired into the Foot / Head Motor. Run the Power Cord along the outside of the Main Frame Rail toward the bed head end as shown below (Note: US5000 is shown below, but Power Cord routing and attachment is identical for US5000 and US6000).

▲ **NOTICE:** The Power Cord **MUST** be secured to the Main Frame Rail so there are no pinch points or interference, and so it does not catch on any bed part or accessory.





## US5000 / US6000: RECOMMENDED PENDANT HAND CONTROL CABLE ROUTING AND TIE-OFF



***Info: Optional Pendant Hand Control Cable Routing and Tie-Off: The Pendant Hand Control Cable can also be run along the right side of the bed for the patient's convenience: Tie it to the center square end tubes as shown in detail above and run the Pendant Cable under the right rail, then up toward the headboard. Be sure to also cable tie the Pendant Cable on the other side of the Main Frame Rail as shown for added security.***

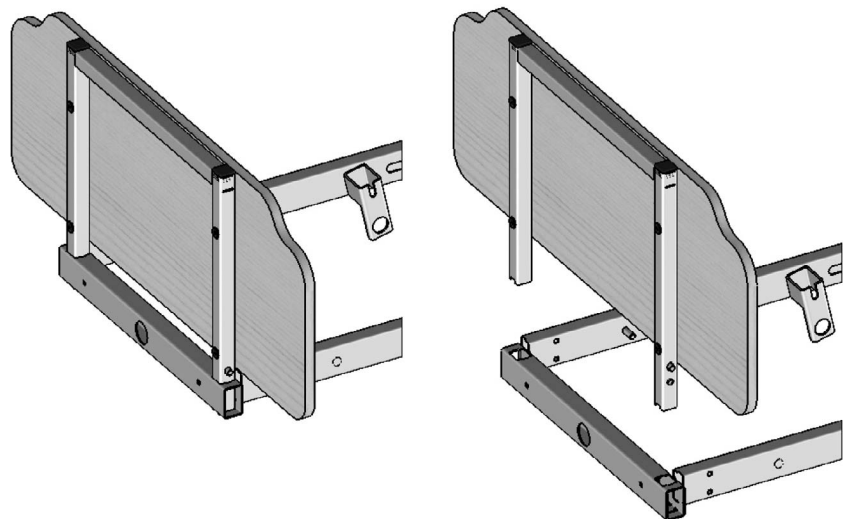
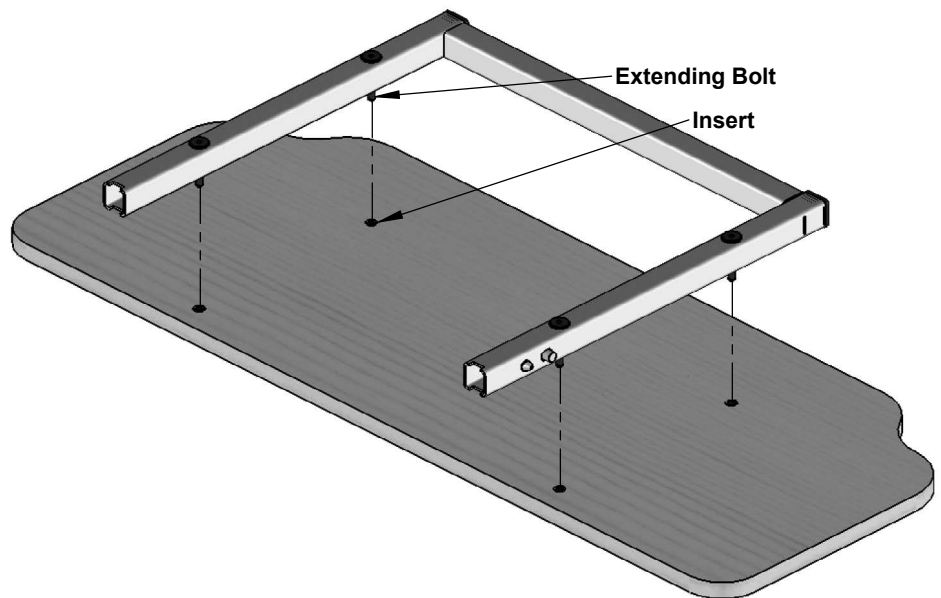
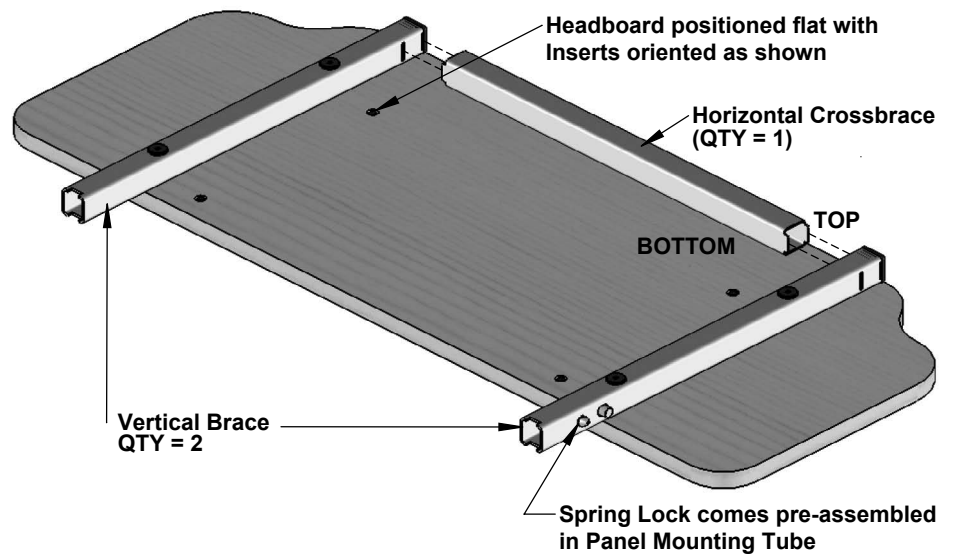
## US5000 / US6000: HEADBOARD PANEL MOUNT ASSEMBLY AND INSTALLATION

1. Position the Headboard flat with pre-assembled Inserts oriented as shown at right.
2. Position the Horizontal Crossbrace along the top edge above Inserts with End Tabs oriented top and bottom.
3. Position the two Vertical Braces so their Extending Bolts face downward as shown. Ensure the Spring Lock is facing outward away from the center.

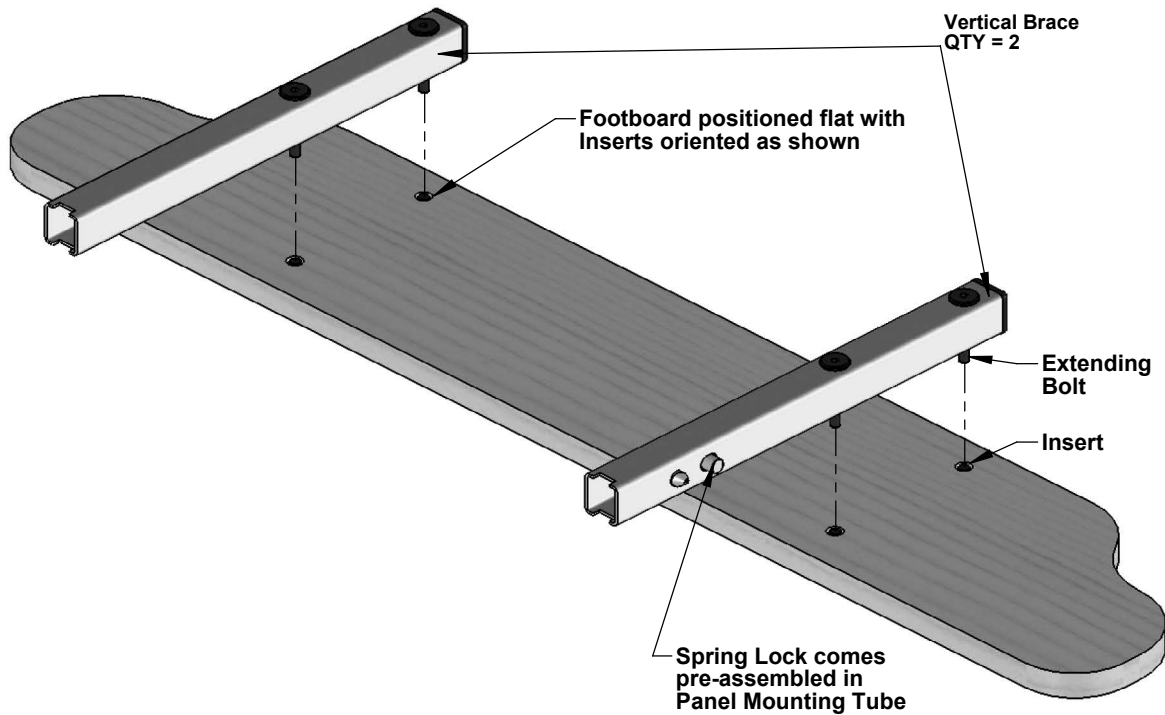
**Info: Tube with Spring Lock must ALWAYS face outward as shown at right.**

4. Slide both Vertical Braces inward until their slots fully seat over Horizontal Crossbrace tabs.
5. Holding the Braces together, align their Extending Bolts with the Headboard holes.
6. Hand screw the Extending Bolts into the Inserts and HAND TIGHTEN ONLY.
7. Insert Headboard Assembly into Main Frame head end square slots. Ensure Vertical Brace bottom tabs seat fully into slots.
8. Ensure the Spring Lock bottom ramp button is now below the top inside wall of the Main Frame crossbrace to secure Headboard to Main Frame, as shown at near right.
9. Once the headboard is in place, tighten all four bolts with the special hex key supplied in your kit's hardware bag.

**Info: To release the Headboard, depress the Spring Lock TOP button and lift the Headboard up and out of the Main Frame square holes, as shown at far right.**

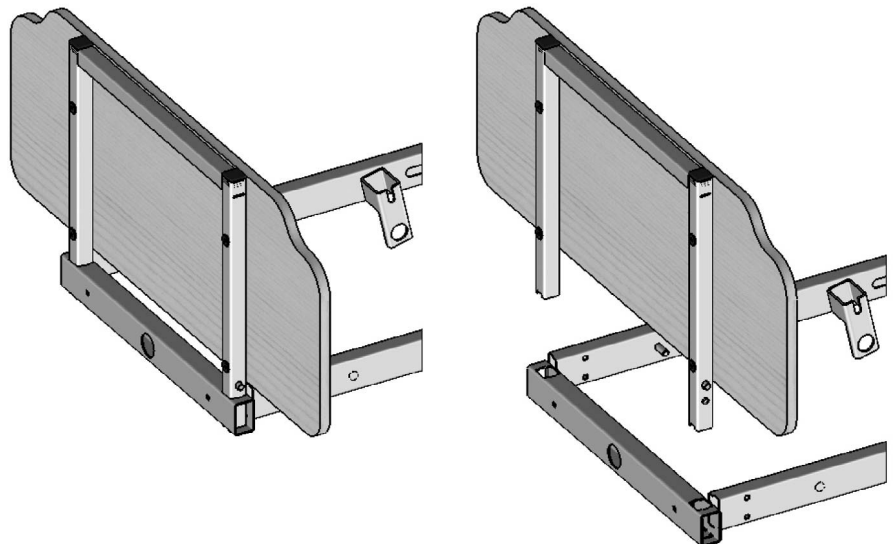


## US5000 / US6000: FOOTBOARD PANEL MOUNT ASSEMBLY AND INSTALLATION



1. Position the Footboard flat with pre-assembled Inserts oriented as shown above.
2. Position the two Vertical Braces so their Extending Bolts face downward and align with Footboard Inserts as shown above. Ensure the Spring Lock is facing outward away from the center.
3. Hand screw the Extending Bolts into the Inserts and **HAND TIGHTEN ONLY**.
4. Insert Footboard Assembly into Main Frame foot end square slots. Ensure Vertical Brace bottom tabs seat fully into slots.
5. Ensure the Spring Lock bottom ramp button is now below the top inside wall of the Main Frame Crossbrace to secure Footboard to Main Frame, as shown at near right.
6. Once the Footboard is in place, tighten all four bolts with the special hex key supplied in your kit's hardware bag.

**Info:** To release the Footboard, depress the Spring Lock TOP button and lift the Footboard up and out of the Main Frame square holes, as shown at far right.

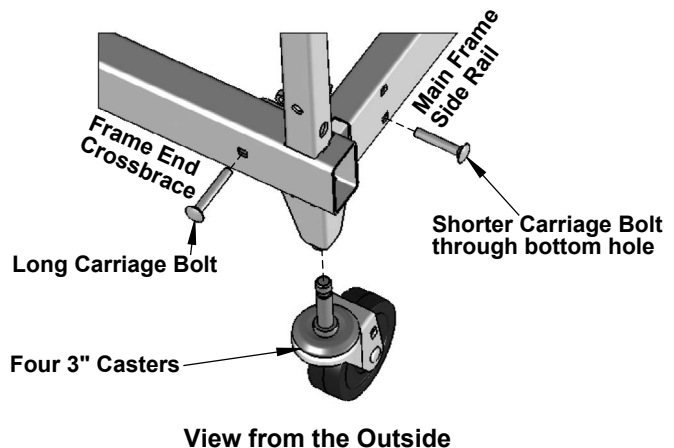
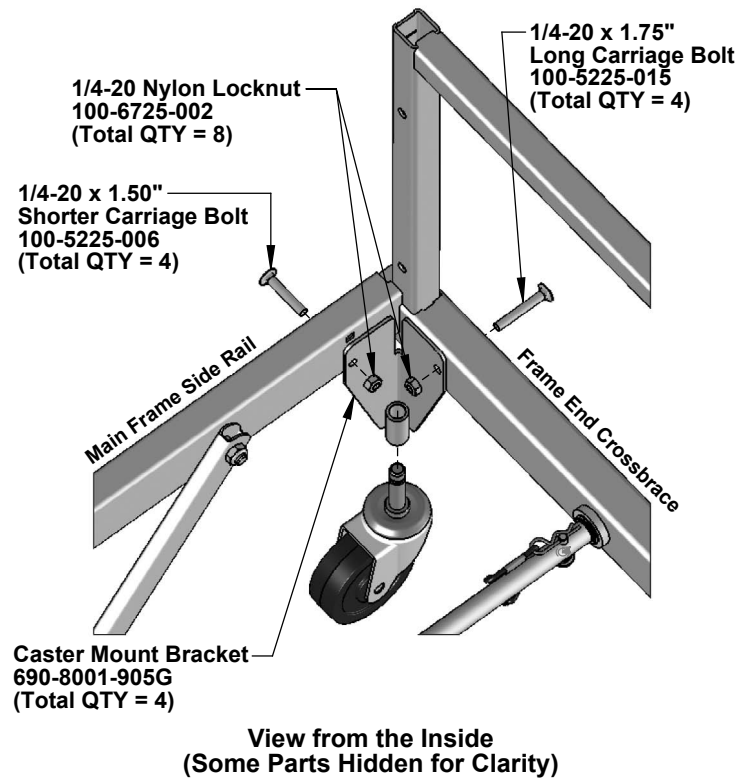




## US5000 / US6000: OPTIONAL CASTER MOUNT ASSEMBLY

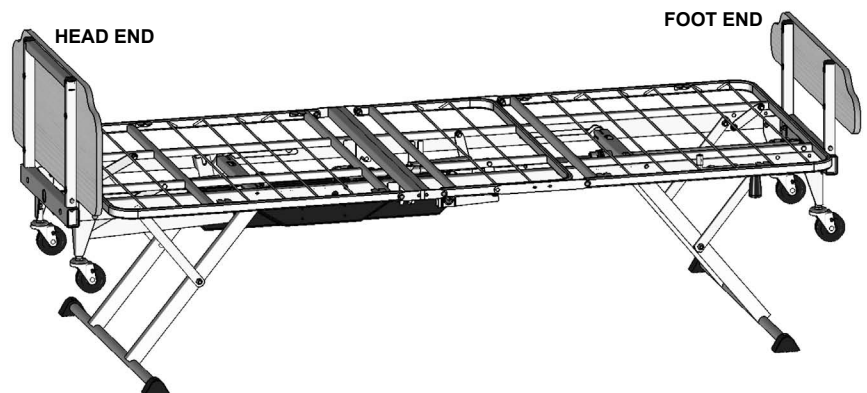
Tools required: 7/16" wrench

1. Raise the bed sleeping surface to its full height.
2. From underneath, position a Caster Mount Bracket in the inside corner of the Main Frame, aligning the Caster Mount Bracket side holes with the single hole in the Frame End Crossbrace and the bottom hole in the Main Frame Side Rail as shown at right.
3. From the outside of the Frame End Crossbrace, insert a long 1.75" Carriage Bolt through both Crossbrace walls, seating the Carriage Bolt's square neck in the square Crossbrace hole.
4. From the outside of the Main Frame Side Rail, insert a shorter 1.50" Carriage Bolt through the holes, seating the Carriage Bolt's square neck of the bolt in the square Side Rail hole.
5. From the inside, screw a 1/4" Nylon Locknut onto the end of each Carriage Bolt. Tighten with a 7/16" open or socket wrench.
6. From the bottom, slide the stem of one of the four casters into the hole as shown at right and push it up to snap into place.
7. Repeat steps 2-6 for the other three Main Frame corners. The bed is shown at lower right with all four casters mounted.



**Info:** To put the bed in Low Roll position, lower the bed until the Legs are off the floor and the Casters are resting on the floor (the bed is shown at lower right before lowering).

**⚠ WARNING:** DO NOT use the Patriot LX Bed as a transport device!





## 5 OPERATION INSTRUCTIONS

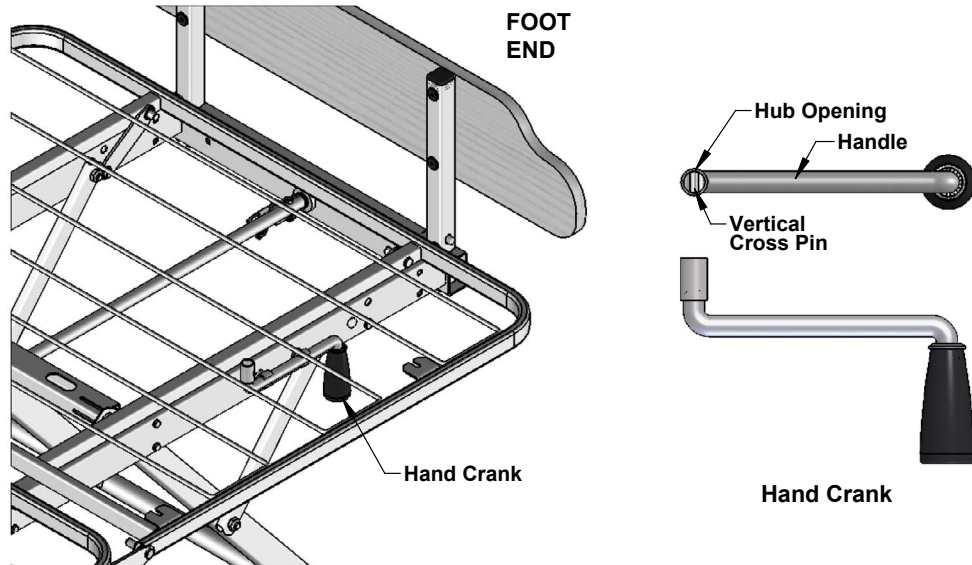
### OPERATION INSTRUCTIONS: US5000 SEMI-ELECTRIC

**⚠ WARNING:** Ensure that the bed is secure and assembled properly per instructions in this manual before operating.

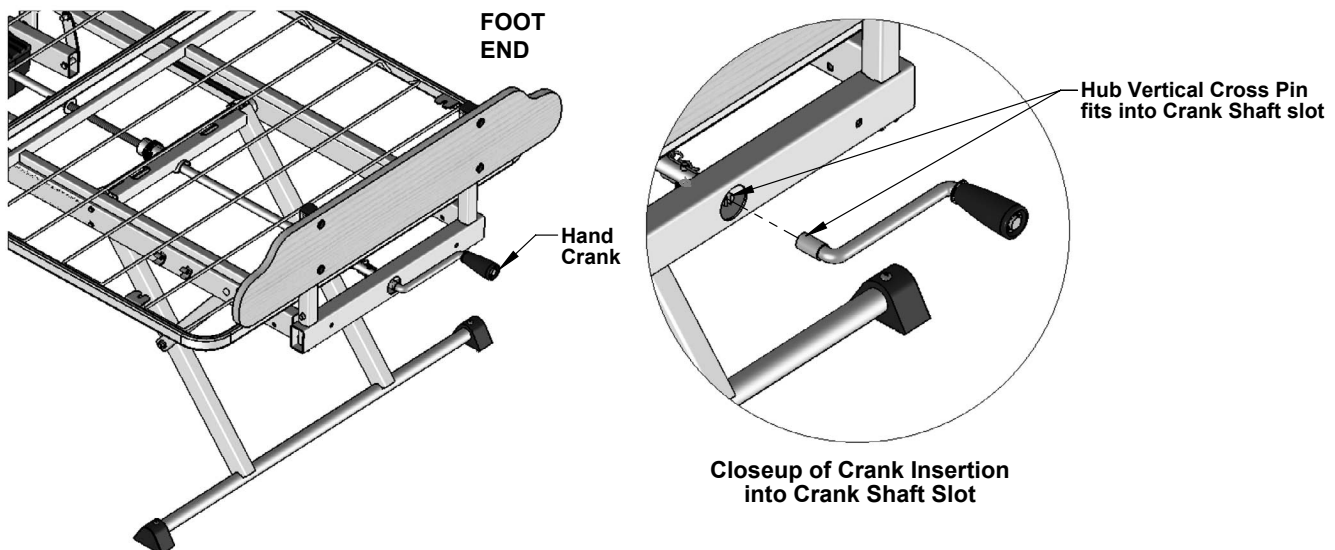
Plug the Power Cord into any grounded outlet.

**⚠ WARNING:** Do not leave the bed unattended when plugged in.

#### US5000 HI / LO HAND CRANK OPERATION (RAISE AND LOWER ENTIRE BED)

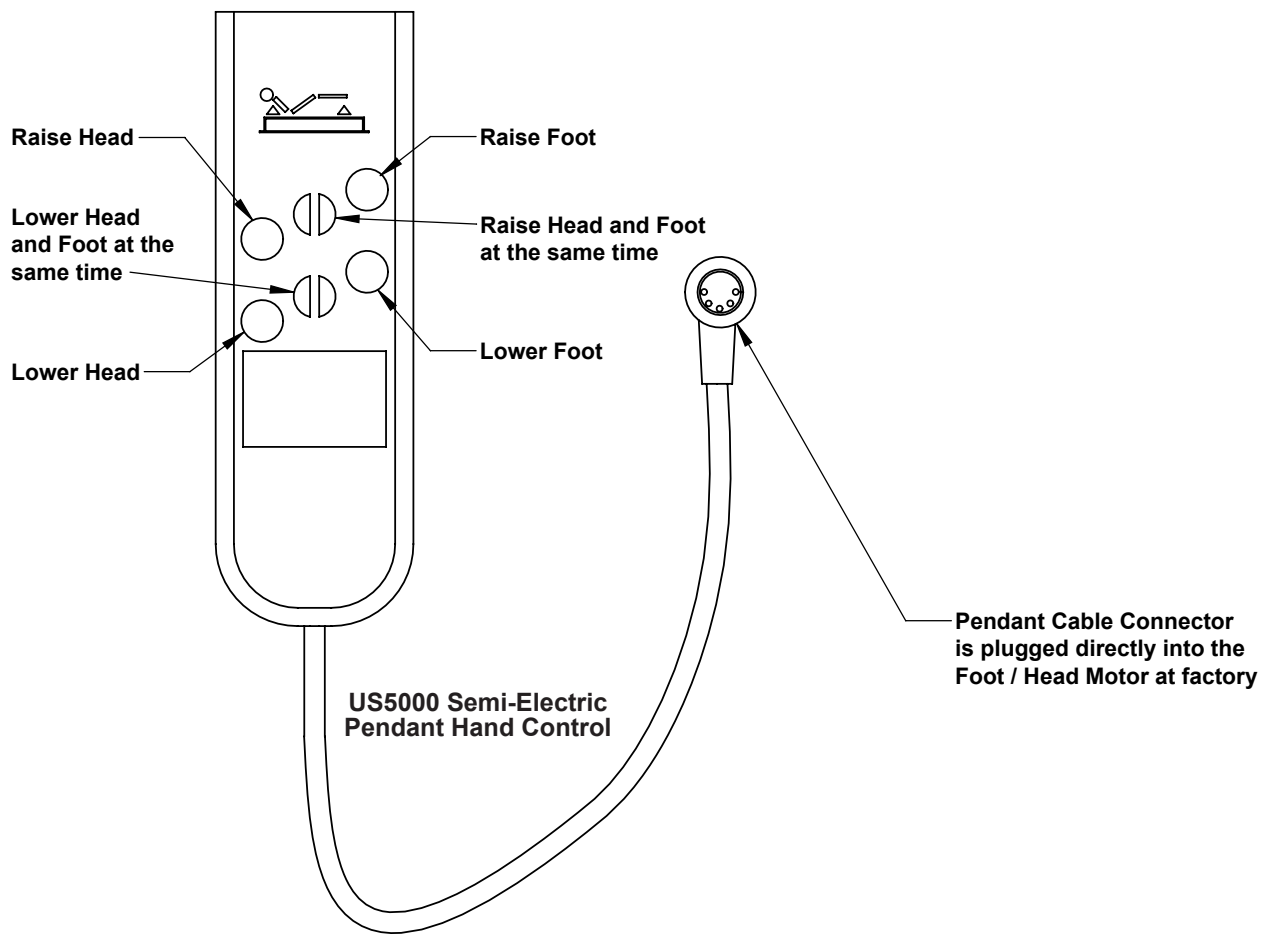


1. The Hand Crank, used to raise and lower the sleep deck (the entire bed), does not change the position of the head and foot / knee decks. It is conveniently clamped at the foot end as shown above for easy storage and access. To use the Hand Crank, remove it from its storage clamps.



2. Insert the short metal hub end into the large slot at the foot end so that the Vertical Cross Pin in the Crank Hub fits into the slot in the Crank Shaft (See Closeup above).
3. To raise the bed, turn the handle clockwise. To lower the bed, turn it counterclockwise.
4. When the bed is at the desired height, remove the Crank Shaft from the slot and return it to the storage clamps at the foot end of the bed.

## US5000 SEMI-ELECTRIC: PENDANT HAND CONTROL OPERATION (RAISE AND LOWER HEAD AND / OR FOOT DECK)



The Pendant Hand Control is shown above with each button function labeled. The Pendant Hand Control is used to change the angle of the Head and Foot / Knee Decks. Each button has a different function, as shown above.

### POWER FAILURE

**Info:** In the event of a power failure, use a standard 9V battery (not included) to lower the bed's Head and Foot / Knee Decks. The 9V battery connection is attached to the Foot / Head Motor. When used with the battery, the motor will only lower, not lift, the Head and / or Foot Deck.

**⚠ WARNING:** To lower the Head and / or Foot Deck in the event of a power failure, use a standard 9V battery as instructed in preceding paragraph. To lower the entire bed in the event of a power failure (or any other time), use the Hand Crank as instructed on previous page.

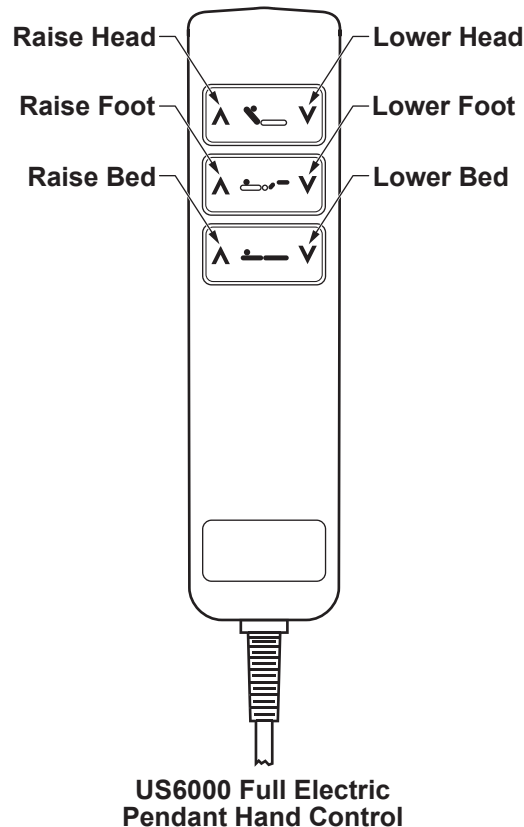
## OPERATION INSTRUCTIONS: US6000 FULL ELECTRIC

### US6000 FULL ELECTRIC: PENDANT HAND CONTROL OPERATION

**⚠ WARNING:** Ensure that the bed is secure and assembled properly per instructions in this manual before operating.

Plug the Power Cord into any grounded outlet.

**⚠ WARNING:** Do not leave the bed unattended when plugged in.



The Pendant Hand Control is shown above with each button function labeled. The Pendant Hand Control is used to change the angle of the Head and Foot / Knee Decks and bed elevation. Each button has a different function, as shown above.

### POWER FAILURE

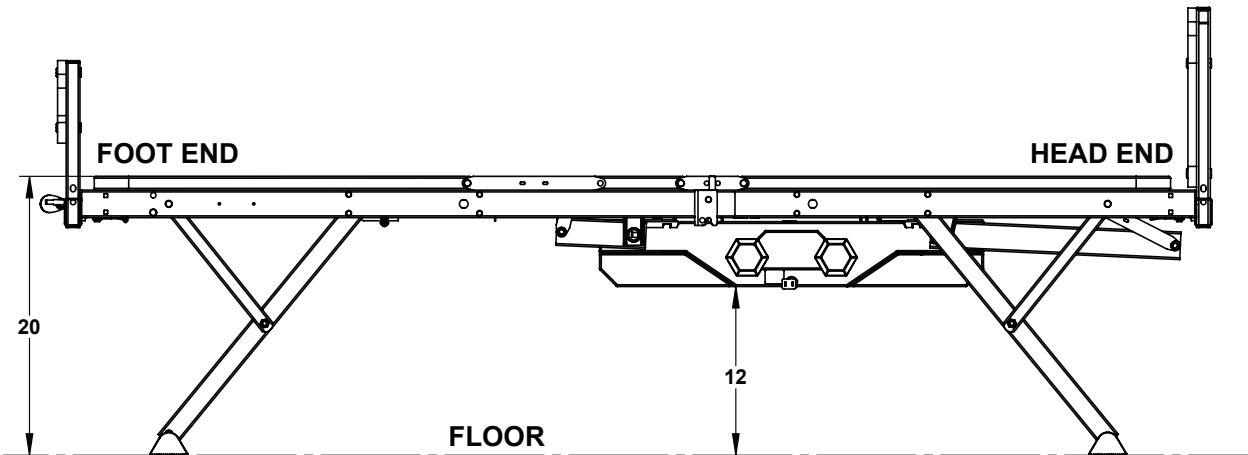
**Info:** In the event of a power failure, use a standard 9V battery (not included) to lower the bed's Head and Foot / Knee Decks. The 9V battery connection is attached to the Foot / Head Motor. When used with the battery, the motor will only lower, not lift, the Head and / or Foot Deck.

**⚠ WARNING:** To lower the Head and / or Foot Deck in the event of a power failure, use a standard 9V battery as instructed in preceding paragraph.

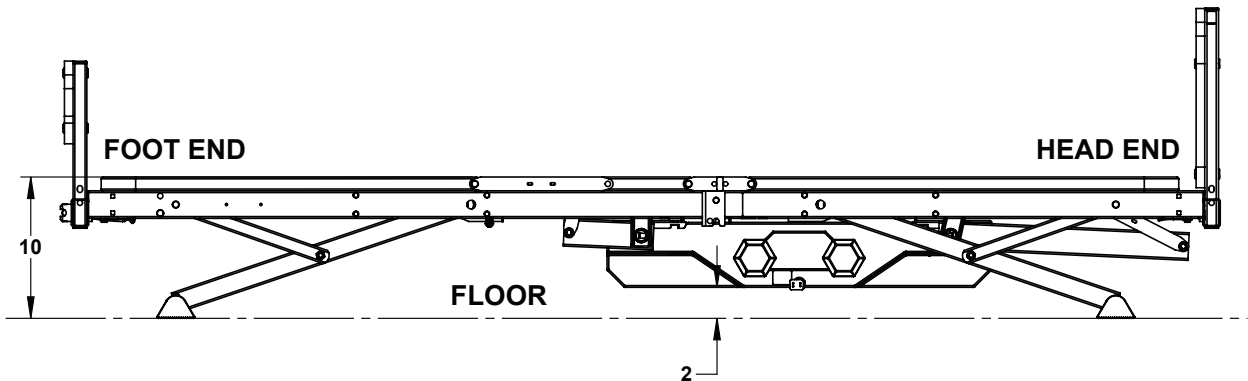
**BED POSITIONING: US5000 / US6000**

Quick Reference	
Maximum Height	Floor to Sleep Deck Top = 20"
Minimum Height	Floor to Sleep Deck Top = 10"
Maximum Head Angle	Head Deck to Sleep Deck = 60°
Maximum Knee Angle	Knee Deck to Sleep Deck = 30°

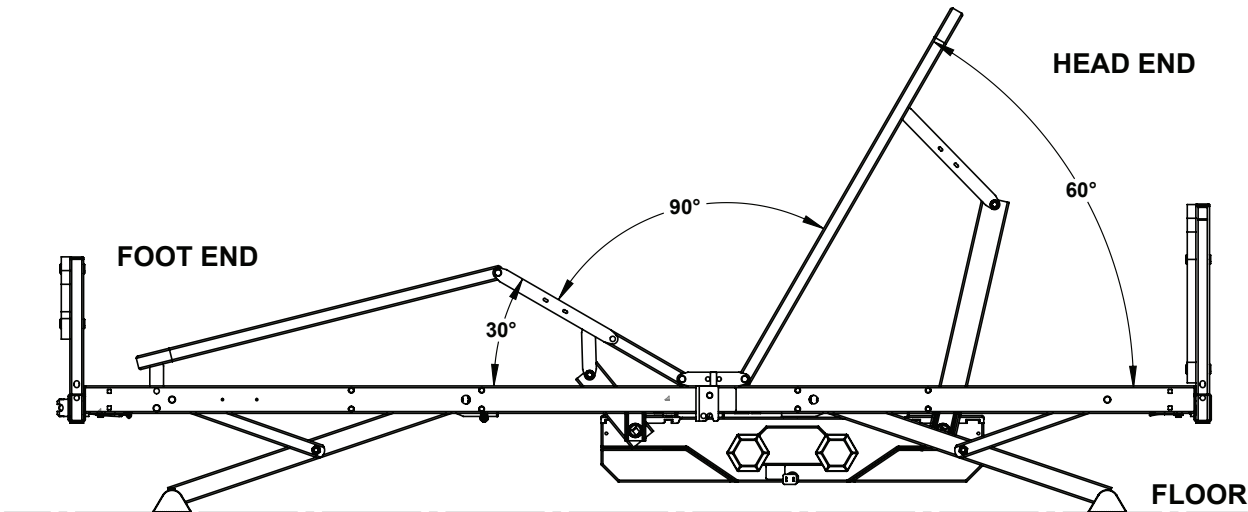
**Maximum Height**



**Minimum Height**



**Maximum Head Angle and Maximum Knee Angle**



## 6 COMPONENTS, OPTIONS AND ACCESSORIES

### COMPONENTS (PATRIOT LX AS SHIPPED)

The Patriot LX is shipped in two cartons: a Head Section Carton and a Foot Section Carton. The Head Section Carton contains the Head Section as well as a box that contains the Motor, Pendant, Panel Mount Tubes, and Hardware. The Foot Section Carton contains the Foot Section, Headboard, and Footboard.

#### COMPONENTS (PATRIOT LX AS SHIPPED): US5000 SEMI-ELECTRIC BED

690-8100-901 (Head Section Carton)	690-8100-000	Head Section Bed Frame Assembly
	690-8001-913	Semi-Electric Motor, Pendant, Panel Mount Tubes, and Hardware
690-8105-902 (Foot Section Carton)	690-8105-000	Foot Section Bed Frame Assembly with Hi / Lo Hand Crank
	690-8001-200	Headboard and Footboard Set

#### COMPONENTS (PATRIOT LX AS SHIPPED): US6000 FULL ELECTRIC BED

690-8104-901 (Head Section Carton)	690-8104-001	Head Section Bed Frame Assembly with Hi / Lo Motor
	690-8004-913	Full Electric Motor, Pendant, Panel Mount Tubes, and Hardware
690-8104-902 (Foot Section Carton)	690-8104-000	Foot Section Bed Frame Assembly with Hi / Lo Motor
	690-8001-200	Headboard and Footboard Set

### SERVICE COMPONENTS

#### SERVICE COMPONENTS: US5000 / US6000

690-8001-200	Headboard and Footboard Set
301-3004-880CCR	Headboard Only
301-3004-885CCR	Footboard Only
690-8001-962	Headboard Panel Mount Tubes and Hardware
690-8001-963	Footboard Panel Mount Tubes and Hardware

#### SERVICE COMPONENTS: US5000 SEMI-ELECTRIC BED

690-8100-000	Head Section Bed Frame Assembly Only
690-8105-000	Foot Section Bed Frame Assembly Only, with Hi / Lo Hand Crank
690-8001-912	Semi-Electric Motor and Pendant Only
690-2001-411	Semi-Electric Pendant Only
690-8001-907	Hi / Lo Hand Crank Only

#### SERVICE COMPONENTS: US6000 FULL ELECTRIC BED

690-8104-001	Head Section Bed Frame Assembly Only with Hi / Lo Motor
690-8104-000	Foot Section Bed Frame Assembly Only, with Hi / Lo Motor
690-8004-912	Full Electric Motor and Pendant Only with Y-Cable
690-8004-200	Full Electric Y-Cable Only
690-2001-414	Full Electric Pendant Only
690-8004-945	Hi / Lo Motor, Head or Foot

## OPTIONS

### OPTIONS: US5000 / US6000

690-8001-000	Low Roll Caster Set (4 Casters with Brackets)
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### OPTIONS: US5000 SEMI-ELECTRIC BED

690-8084-000	4" Extension Kit (One Kit at Head or Foot End = 84"; One Kit at Each End = 88")
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### OPTIONS: US6000 FULL ELECTRIC BED

690-8184-000	4" Extension Kit (One Kit at Head or Foot End = 84"; One Kit at Each End = 88")
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### ACCESSORIES: US5000 / US6000

GF6570A-1	Universal Full Length Side Rail
GF6570B-1	Patriot Liberty Full-Length Bed Rail
GF6580BH-1	Patriot Liberty Quarter Length Bed Rail (Head or Foot)
GF6590BH-1	Patriot Liberty Half No-Gap Bed Rail (Head)
2800A	Bed-Mount Trapeze, Chrome-Plated
2800GA	Bed-Mount Trapeze, Gray

 **WARNING:** GF6650A-1 Universal Clamp-On Half Side Rail can not be used with Patriot LX.

 **WARNING:** The Patriot LX is not recommended for use with Floor Stand Trapeze without extended glides or side mounting for leg clearance. All Patriot LX beds are supplied with horizontal headboard tube support for bed frame trapeze mounting.

## PATRIOT LX ACCESSORIES: BED RAILS

The Patriot LX Homecare bed deck is equipped with slots specifically for bed rail installation, as shown on the following pages, providing a fixed place to mount Lumex bed rails. Two styles of Lumex bed rails are described in the following pages:

- 1) The Lumex Patriot LX Bed Rail System, designed specifically for Patriot LX Beds, and
- 2) The Lumex Universal Bed Rail System.

**⚠ WARNING: Please read the following bed rail safety information before attaching and using your rails.**

### Bed Rail Safety

**⚠ WARNING: If bed rails are not properly installed and adjusted, personal injury and / or damage to the bed rail could result.**

**Please read and understand the following bed rail decal before use:**

 <b>WARNING/ SAFETY ALERT</b>	<b>BEWARE OF SIDE-RAIL ENTRAPMENT</b> Patient Entrapment with bed side rails may result in serious injury or death. ALWAYS evaluate patients for and guard against bed rail entrapment in accordance with medical protocols. Monitor patient frequently. Mattress MUST fit bed frame and side rails snugly to prevent entrapment. There may be an increased risk of entrapment when bed rails are used in conjunction with low air loss products. Follow the Safety Warnings and Operating Instructions in the Service/User's manual. Contact your dealer or <a href="http://www.grahamfield.com">www.grahamfield.com</a> . <small>GF0000165RevE12</small>
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For information on Bed Rail safety, please see the FDA's brochure concerning Bed Safety and Bed Rails on the FDA website, at [www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/GeneralHospitalDevicesandSupplies/HospitalBeds/](http://www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/GeneralHospitalDevicesandSupplies/HospitalBeds/)

**⚠ WARNING: Patient entrapment with bed side rails may result in serious injury or death. Use only with coherent patients capable of avoiding entrapment. Patients at risk of entrapment include those who have problems with memory, sleeping, incontinence, pain, uncontrolled body movement or who get out of bed and walk unsafely without assistance. For at-risk patients, use only with proper bed side rail protective barriers. There is also an increased risk of entrapment when bed rails are used in conjunction with a low air loss product.**

**⚠ WARNING: Bed side rails are not restraining devices. If restraint is required, use only proper protective restraints. Follow the manufacturer's instructions and applicable regulations. Monitor patient frequently.**

**⚠ WARNING: DO NOT push or pull the bed by the bed rails.**

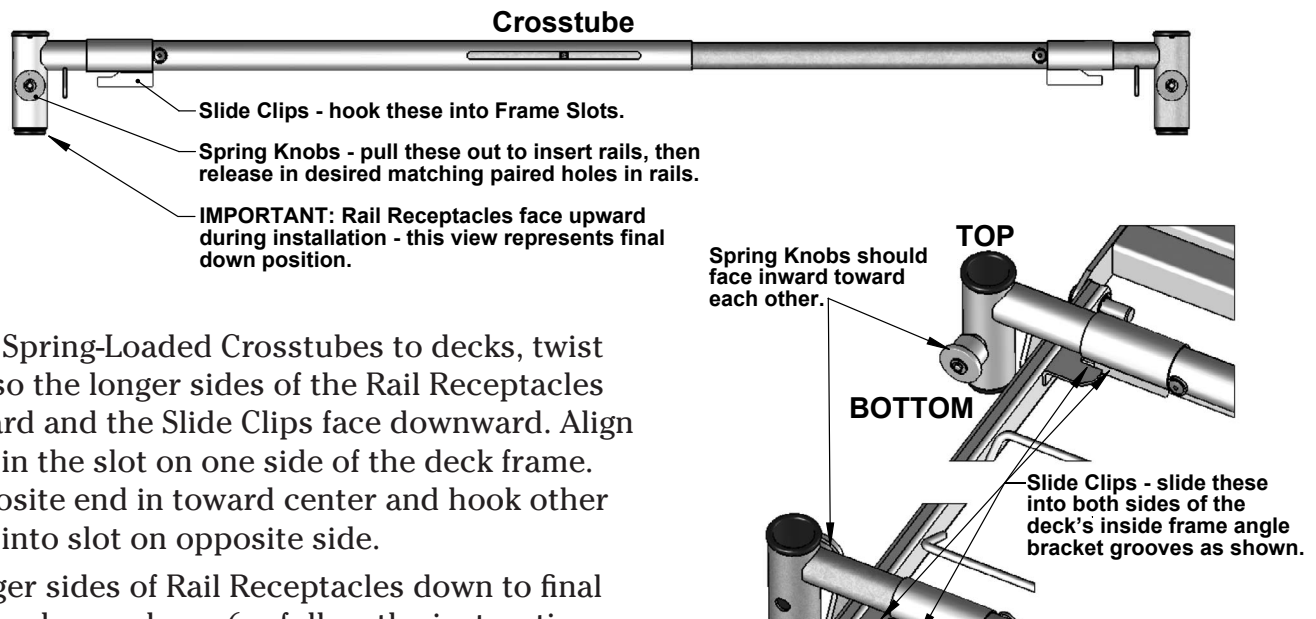
**⚠ WARNING: GF Health Products, Inc. assumes no responsibility for any damage or injury caused by improper installation of bed rails or unauthorized bed rail use. Only Lumex bed rails are recommended for use with Patriot LX beds. Please consult the instructions that accompany your Lumex bed rails for complete rail assembly and installation instructions.**



## Patriot Liberty Bed Rail Design

Lumex Patriot Liberty Bed Rails, designed specifically for use with Lumex Patriot Beds, were developed using the *FDA Hospital Bed System Dimensional Guidance to Reduce Entrapment* and tested to the *Hospital Bed Safety Workgroup and FDA Dimensional Test Methods for Bed System Zones 1-4* and *International Standard IEC60601-2-38 Requirements for the Safety of Electrically Operated Hospital Beds*. For installation of these FDA-compliant bed rails, follow the installation instructions that accompany them. Patriot Liberty Bed Rail descriptions follow.

### Patriot Liberty Spring-Loaded Crosstube for Rail Mounting

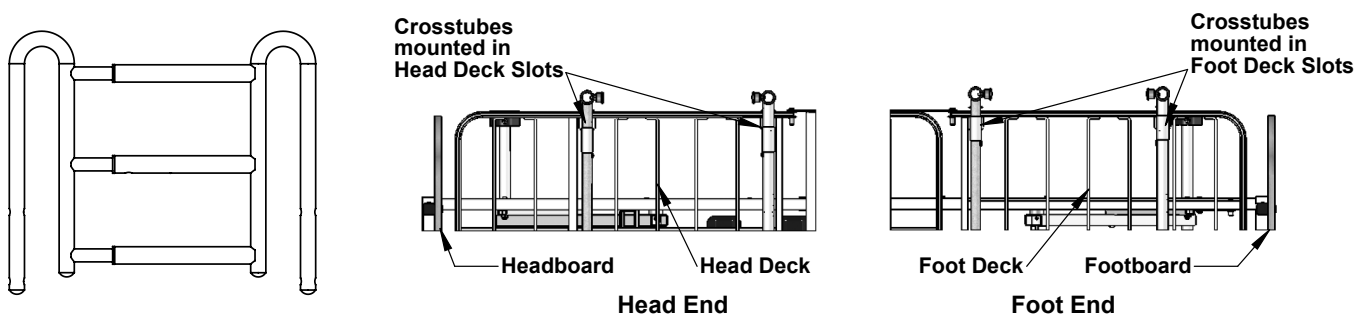


To attach Spring-Loaded Crosstubes to decks, twist the ends so the longer sides of the Rail Receptacles face upward and the Slide Clips face downward. Align Slide Clip in the slot on one side of the deck frame. Push opposite end in toward center and hook other Slide Clip into slot on opposite side.

Twist longer sides of Rail Receptacles down to final position as shown above (or follow the instruction sheet that came with your rail).

## PATRIOT LIBERTY BED RAILS

### GF6580BH-1: Patriot Liberty Quarter Length Bed Rail



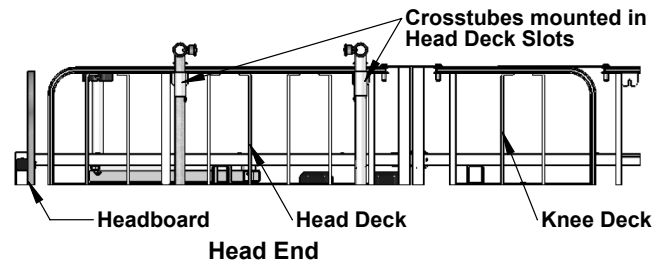
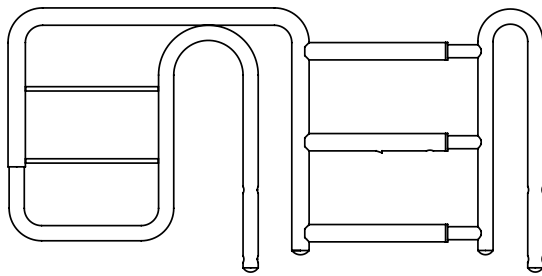
The Quarter Rail, shown above, is approximately 18 inches in length when mounted on the Patriot LX Bed. It can be used as a head assist, head rail, or foot rail.

Mounting slot locations utilized when the Quarter Rail is used as a Head Rail are shown in Head End illustration at above middle (opposite slots are directly across bed).

Mounting slot locations utilized when the Quarter Rail is used as a Foot Rail are shown in Foot End illustration at above right (opposite slots are directly across bed).



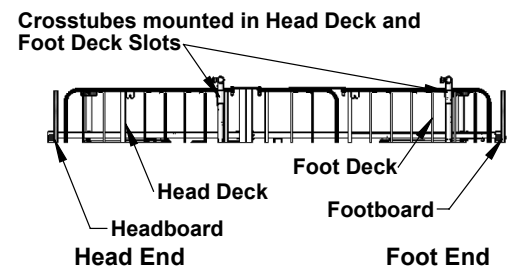
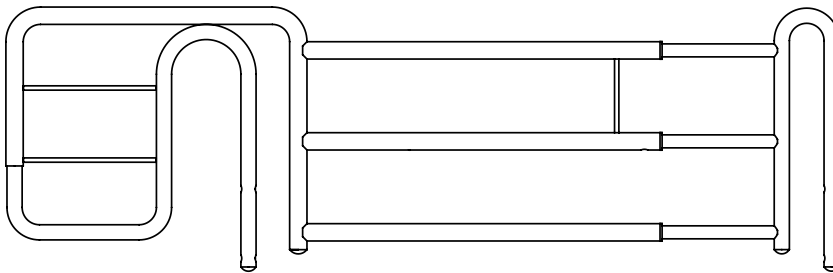
## GF6590BH-1: Patriot Liberty Half No-Gap Head Rail



The Half No-Gap Head Rail, shown above, provides full head coverage of 31.5 inches and extends to eliminate the gap between the headboard and the head end of the rail. The GF6590B-1 mounted on the bed's head in conjunction with the GF6580B-1 mounted on the bed's foot create the Patriot LX split rail system.

Half No-Gap Head Rail mounting slot locations are shown at above right (opposite slots are directly across bed).

## GF6570B-1: Patriot Liberty Full Length Bed Rail



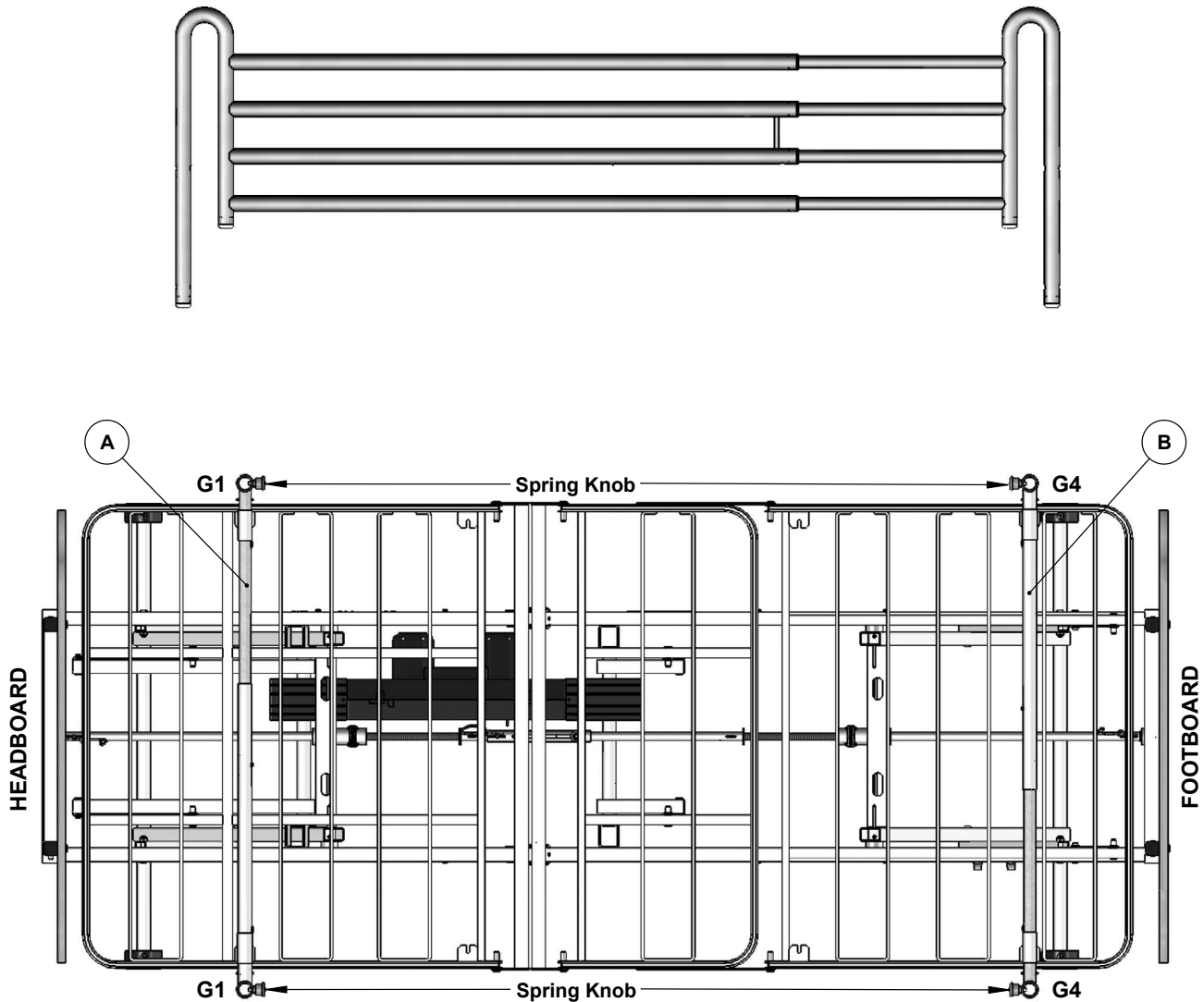
The Full Length rail, shown above, is a telescoping full length rail that provides maximum-length rail perimeter coverage.

Full Length Rail mounting slot locations are shown at above right (opposite side slots are directly across bed).

## LUMEX UNIVERSAL BED RAIL

If you install Lumex Universal Bed Rails, follow the installation instructions that accompany them. The following instructions provide you with a description of where the Spring-Loaded Crossbrace tubes are positioned for installation of the Full-Length Universal Side Rail listed below.

### GF6570A-1: Full Length Side Rail



Position a **Spring-Loaded Crossbrace A** into Head Deck **slots G1** on both sides of the bed with Spring Knobs facing inward as shown above. Then insert a **Spring-Loaded Crossbrace B** into Foot Deck **slots G4** on both sides of the bed with Spring Knobs facing inward as shown above. (Make sure to follow the proper Spring Loaded-Crossbrace installation instructions that came with your rail).

## 7 CARE AND MAINTENANCE

Proper care and maintenance are essential to keeping your Lumex Patriot LX Homecare Bed in a safe operating condition. When you believe a component or part is not functioning properly, immediately contact your Graham-Field authorized distributor, as a potentially hazardous condition could exist.

- ⚠ WARNING: Service and repair of the Lumex Patriot LX Homecare Bed should be performed only by a Graham-Field authorized distributor. Graham-Field is not responsible for any consequence resulting from any unauthorized service or repair.**
- ⚠ WARNING: Unauthorized modification of the Patriot LX Homecare Bed or the use of non-Lumex replacement parts may change the structure of the lift and could create a hazardous condition, which may result in serious injury and will void the warranty.**
- ⚠ WARNING: The bed's electronic system contains no serviceable parts. Do not open the Motors, Cables, Motor Cord, or Pendant Hand Control. Only a Graham-Field authorized distributor or factory-trained personnel may perform service or adjustments on these components.**

### SAFETY CHECKS / MECHANICAL CHECKS / LUBRICATION

Perform the following as needed or between patient placements, whichever happens sooner.

<b>Electronics and Motors</b>	Check all controls to ensure that all functions work properly. If you have a semi-electric bed, make sure to also check all crank parts for ease of raising the bed up and down horizontally.	Foot Control
		Head Control
		Manual Crank Assembly
	Check all cables for damaged or frayed wires.	Power Cord, Motor Cords
		Pendant Hand Control Cord
	Check to ensure that all plugs are fully inserted or attached.	
	Check to ensure that all wires are routed and attached properly so not to interfere with any moving parts.	
	Inspect motor casings for excessive wear and cracks.	
<b>Bed Frames and Sleeping Surface</b>	Visually check all welds.	Head Section
		Foot Section
		Main Frame
	Check joints between sleeping surface sections for loose fasteners.	
<b>Mechanical</b>	Inspect frames and sleeping surface for bending and excessive wear.	
	Check all bolts and tighten as needed.	
<b>Lubrication</b>	Lubricate all caster roller and swivel bearings (if applicable) with light machine oil.	

### CLEANING

The metal parts of the bed are covered with a powder coating. Clean all coated parts with mild detergent and warm water as needed or between patient placements, whichever happens sooner. Periodically raise head and foot sections of the bed and remove dust from frame. Also, periodically remove mattress and clean the mattress deck.

- ▲ NOTICE: DO NOT wash Patriot LX Homecare Bed motor, pendant, or electronics under water pressure or steam clean. If you wash the bed, remove motor, pendant, and electronics first. DO NOT use abrasive cleansers on any part of the bed.**

## 8 TROUBLESHOOTING

The following list of encountered problems and their solutions will assist you in determining what may be causing your Patriot LX Homecare Bed not to function as designed. If a problem occurs which is not listed below, please contact your Graham-Field authorized distributor or Graham-Field Technical Support for help. Do not attempt to repair Patriot LX components or parts, as this may invalidate your warranty or cause further problems.

Model	Symptom	Probable Cause	Solution
US5000 / US6000	Unable to change Head or Foot Deck Position	No power	Ensure Power Cord is plugged in Check power outlet Ensure Power Cord is not pinched or damaged
		Pendant is not functioning	Ensure Pendant is connected to Foot / Head Motor Ensure Pendant cable is not pinched or damaged
		Household fuse or breaker is blown	Ensure household fuse or breaker box is functional
		Motor is not functioning	Call Graham-Field authorized distributor
		Head or Foot Deck is at maximum or minimum angle (end of stroke reached)	Operate opposite direction button
	No emergency lowering (in case of power failure)	9V battery discharged	Replace 9V battery
US5000	Unable to change bed elevation	Crank not inserted properly	Ensure Crank Slot is engaged to Pin Groove
		Hi / Lo Rod not connected to Foot Crank Pin	Ensure Hi / Lo Rod Clevis Pin is inserted at foot
	Only foot section elevates	Hi / Lo Rod not connected to Head Crank Pin	Ensure Hi / Lo Rod Clevis Pin is inserted at Head
		Head and Foot Hi / Lo Rods not connected	Ensure Center Hi / Lo Rod Clevis pin is inserted
	Bed elevates on slant or unevenly	Bed Screw Mechanism out of sync	Continue cranking bed to highest or lowest elevation until level
		Screw assembly loose or slipping	Tighten Screw Assembly Clamp with screwdriver Continue cranking bed to highest or lowest elevation until level
US6000	Unable to change bed elevation	No power	Ensure Power Cord is plugged in Check power outlet Ensure Power Cord is not pinched or damaged Ensure Y-Cable is plugged into Head / Foot Motor
		Pendant not functioning	Ensure Power Cord is plugged in Check power outlet Ensure Power Cord is not pinched or damaged
		Household fuse or breaker blown	Ensure Power Cord is plugged in Check power outlet Ensure Power Cord is not pinched or damaged
		Hi / Lo Motors not functioning	Call Graham-Field authorized distributor
	Only one Hi / Lo Motor operating	One motor not plugged in	Ensure Motor Plug is fully engaged to Y-Cable Ensure Motor Cord or Y-Cable is not damaged or pinched
	Bed elevates on slant or unevenly	Motors out of sync	Continue operating to highest or lowest elevation until both motors shut off

**⚠ WARNING:** If you experience a problem with the Patriot LX Homecare Bed and are unable to service it yourself, contact your Graham-Field authorized distributor.

## 9 SPECIFICATIONS

*Info: All dimensions are given in inches unless otherwise specified.*

### MECHANICAL SPECIFICATIONS

Sleep Deck Length (Standard)	78.00" (approximately)
Sleep Deck Width (Standard)	35.00" (approximately)
Floor to Sleep Deck Height (High)	20"
Floor to Sleep Deck Height (Low)	10"
Under Bed Minimal Clearance (High)	12"
Under Bed Minimal Clearance (Low)	2"
Maximum Head Deck Angle	60°
Maximum Knee Deck Angle	30°
Maximum Safe Working Load / Maximum Total Weight Capacity	450 lb, EVENLY DISTRIBUTED
Maximum Patient Weight Capacity	350 lb, EVENLY DISTRIBUTED
Bed Weight, Assembled	US5000 Semi-Electric Bed: 118 lb
	US6000 Full Electric Bed: 125 lb

### ELECTRICAL SPECIFICATIONS

Power / Frequency	100-240V - 50 / 60 Hz
Maximum Output	3.5 Amp
Interrupt Time	.50 minute / 4.00 minute
Maximum Force	Head / Foot Motor: 2x4500N
	Hi / Lo Motors: 2x6000N
Stroke	Head 87mm; Foot 69mm
Classification	Class I, Type B
2-Prong Power Cord	Double Insulated

# 10 LIMITED WARRANTY

## SCOPE OF WARRANTY

GF Health Products, Inc. ("GF") warrants to the original purchaser only that it will replace or repair components, at GF's sole discretion, that are defective in material or workmanship under normal use and service. All warranties are conditioned upon the proper use of the products strictly in accordance with good commercial practice and applicable GF instructions and manuals, including proper use and maintenance. To the extent that a component is warranted by a third party, GF conveys all of its rights under that warranty to the original purchaser, to the extent permitted.

This limited warranty shall only apply to defects that are reported to GF's customer service team within the applicable warranty period and which, upon examination by GF or its authorized representative, prove to be a warranty item. This limited warranty is not transferable.

The warranted components and time period are set forth below:

Bed frame: .....5 years

Motor, pendant, and electronic components: .....2 years

All other durable components not listed above: .....1 year

The applicable warranty period shall commence from date of shipment to the original customer, unless there is an expiration date on the component in which case the warranty shall expire on the earlier of warranty period or the expiration date.

## OBTAINING WARRANTY SERVICE

A GF Customer Service Representative must authorize warranty service. Please contact the GF Customer Service department by calling 678-291-3207, sending a fax request to 770-368-2386 or by e-mailing a request to [cs@grahamfield.com](mailto:cs@grahamfield.com). Specific directions will be provided by the Customer Service Representative. Failure to abide by the specific directions will result in denial of the warranty claim.

## EXCLUSIONS

The warranty does not cover and GF shall not be liable for the following:

- 1) Defects, damage, or other conditions caused, in whole or in part, by misuse, abuse, negligence, alteration, accident, freight damage, tampering or failure to seek and obtain repair or replacement in a timely manner;
- 2) Products which are not installed, used, or properly cleaned and maintained as required in the official manual for the applicable product;
- 3) Products considered to be of a non-durable nature including, but not limited to: casters, filters, fuses, gaskets, lubricants, and charts;
- 4) Accessories or parts not provided by GF;
- 5) Charges by anyone for adjustments, repairs, replacement parts, installation or other work performed upon or in connection with such products which are not expressly authorized in writing, in advance, by GF;
- 6) Any labor or shipping charges incurred in the replacement part installation or repair;
- 7) Costs and expenses of regular maintenance and cleaning; and
- 8) Representations and warranties made by any person or entity other than GF.

## ENTIRE WARRANTY, EXCLUSIVE REMEDY AND CONSEQUENTIAL DAMAGES DISCLAIMER

THIS WARRANTY IS GF'S ONLY WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. GF MAKES NO IMPLIED WARRANTIES OF ANY KIND INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IF ANY MODEL OR SAMPLE WAS SHOWN TO THE CUSTOMER, SUCH MODEL OR SAMPLE WAS USED MERELY TO ILLUSTRATE THE GENERAL TYPE AND QUALITY OF THE PRODUCT AND NOT TO REPRESENT THAT THE PRODUCT WOULD NECESSARILY CONFORM TO THE MODEL OR SAMPLE IN ALL RESPECTS.

THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE DEFECTIVE PARTS. GF SHALL NOT BE LIABLE FOR AND HEREBY DISCLAIMS ANY DIRECT, SPECIAL, INDIRECT, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO: DAMAGES FOR LOSS OF PROFITS OR INCOME, LOSS OF USE, DOWNTIME, COVER, OR EMPLOYEE OR INDEPENDENT CONTRACTOR WAGES, PAYMENTS AND BENEFITS.

The warranties contained herein contain all the representations and warranties with respect to the subject matter of this document, and supersede all prior negotiations, agreements and understandings with respect thereto. The recipient of this document hereby acknowledges and represents that it has not relied on any representation, assertion, guarantee, warranty, collateral contract or other assurance, except those set out in this document.

For additional information on this product or this warranty, please contact a GF Customer Service Representative.

## NOTES:

- 1) Additional terms and conditions may apply.
- 2) Freight claims must be notated on the Bill of Lading and must be made with immediacy. The ICC regulations govern specific requirements for freight claims. Failure to abide by those regulations may result in a denial of the freight claim. GF will assist you in filing the freight claim.
- 3) Claims for any short shipment must be made within thirty (30) days of the invoice date.

GF Health Products, Inc.  
2935 Northeast Parkway  
Atlanta, GA 30360  
Tel 770-368-4700  
Fax 770-368-2386  
[www.grahamfield.com](http://www.grahamfield.com)

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Manufactured by:  
**GF Health Products, Inc.**  
Fond du Lac, WI 54937  
*Proudly made in the U.S.A.*

**U.S.A. Corporate Headquarters:**

**GF Health Products, Inc.**  
**2935 Northeast Parkway**  
**Atlanta, GA 30360**  
**tel: 770-368-4700**  
**fax: 770-368-2368**  
**[www.grahamfield.com](http://www.grahamfield.com)**