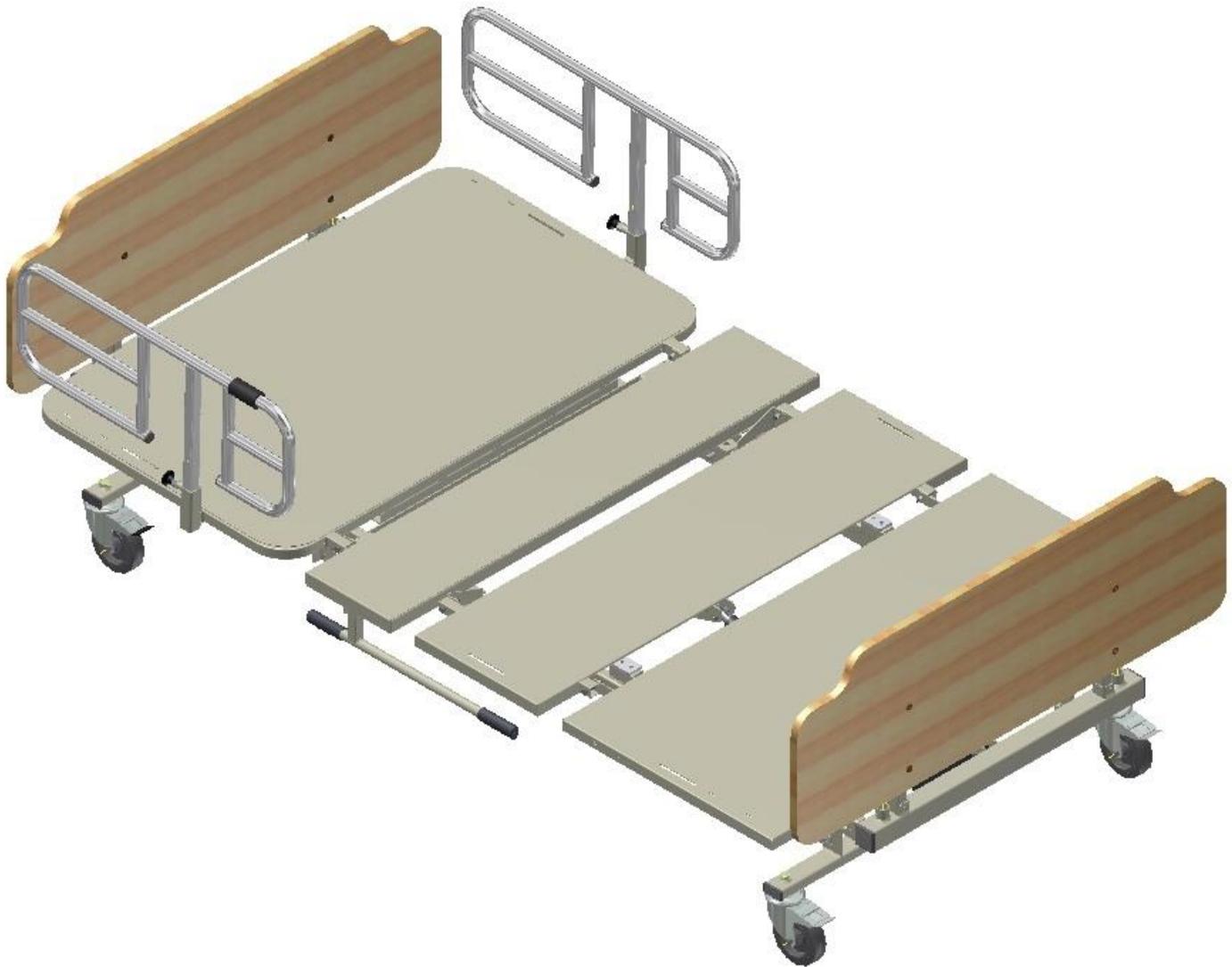


# GENDRON BARIATRIC HOMECARE BED

Model: 3648

## Owner's Operation Manual



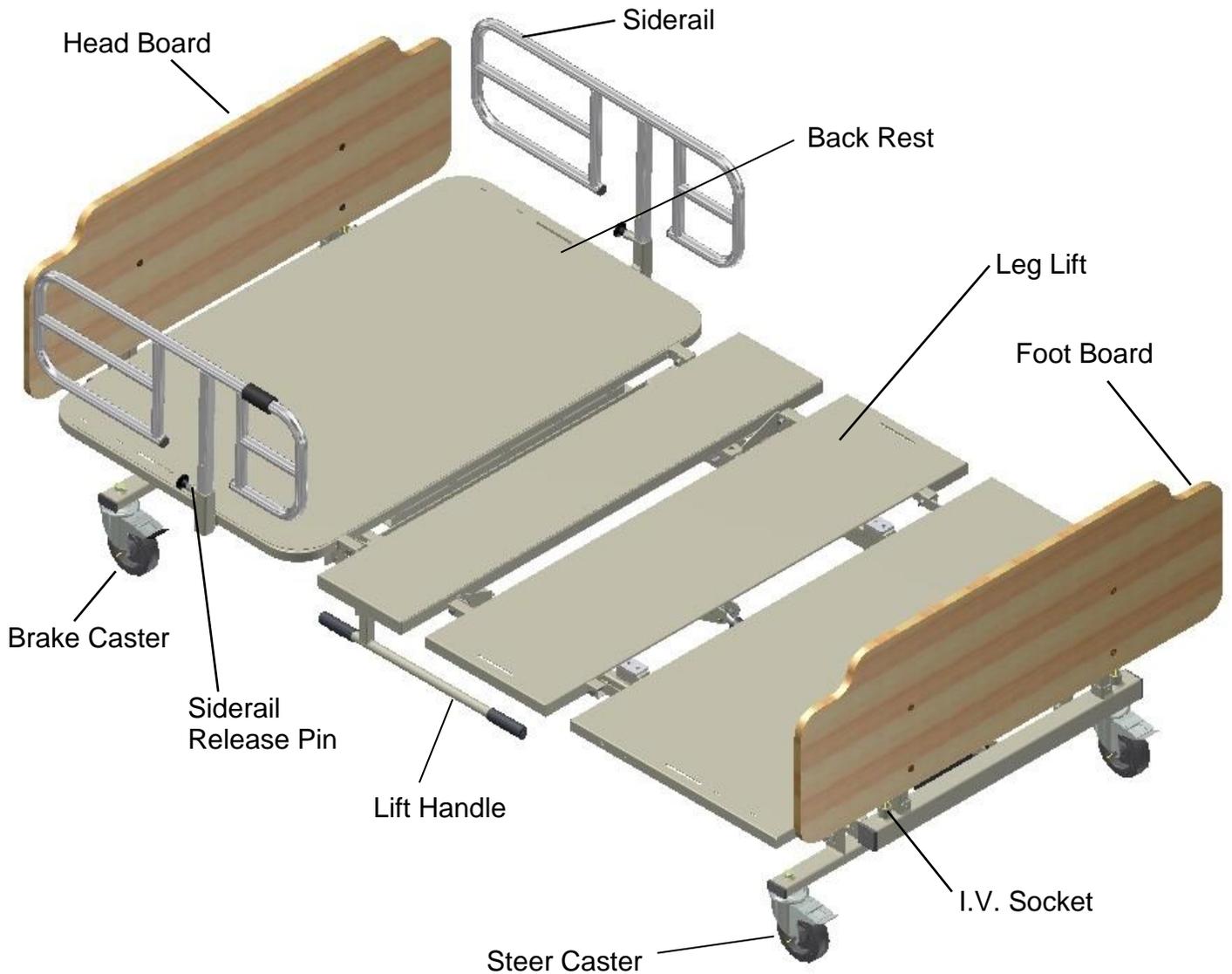
**Gendron, Inc.**  
**520 W. Mulberry Street – Suite 100**  
**Bryan, Ohio 43506**  
**PHONE (800)-537-2521**

**GENDRON**   
*Bariatric Rehab Leadership*

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## Parts Locator



### **Warning, Watch for Pinch points**

Keep fingers, arms, legs, and objects clear of bed when any mechanism is in motion. Make sure all persons and objects are clear of the bed when raising or lowering.

## Safety Notes



### Warnings and Cautions

You must heed the following warnings and cautions. Failure to observe these safety precautions may result in personal injury or mechanical failure. Read all instructions carefully before using the bed.

- Always raise the siderails whenever the patient is lying on the bed in supine position.
- Always lock all casters and align parallel to the patient before use.
- Take special care to lock the casters securely when articulating the bed or when transferring the patient to or from the bed.
- Do not confuse the head end and foot end of the bed when placing the patient in the bed.
- The mattress should be sufficiently wide enough to prevent any part of the patient's body from falling between the side rails and the mattress.
- **Make sure all persons and objects are clear of the bed when raising or lowering the bed. Do not place arms or head into frame while operating.**
- **Moving parts. Watch for pinch points. Keep fingers, arms, legs, and objects clear of bed when any mechanism is in motion.**
- Keep all objects out from under the bed. Certain parts under the bed raise and lower when the bed is in motion. Make sure there is nothing under the bed to interfere with proper bed operations.
- Do not allow the patient to sit on the bed when it is in the highest position. Lower the bed to the lowest position before allowing patient to sit on the bed.
- Equipment not suitable for use in presence of flammable mixtures
- Bed should be left in its lowest position when unattended in order to reduce the risk of injury due to falls while getting into or out of the bed, or while lying on the bed.
- When a patient's condition could lead to patient entrapment, the mattress support platform should be left in the flat position while unattended.
- Handset must not be accessible to the patient.
- Bed does not provide Trendelenburg position.

## Safety Notes



### Warnings and Cautions

You must heed the following warnings and cautions. Failure to observe these safety precautions may result in personal injury or mechanical failure. Read all instructions carefully before using the bed.

- **Weight Limit:** Never exceed the safe working load of 650 pounds. Exceeding weight limit may cause bed to fail. The capacity label is on the Back Rest and on the UDI number label. Safe working load includes the weight of the patient, the mattress, and any accessories.
- **Power Requirements:** Electrical hazard may occur if device is plugged into inadequate power supply. A power source of 100-240 VAC, 50/60 Hertz with a capacity of at least 3.9 Amperes must be available to operate the bed. A three wire grounded receptacle must be supplied. A GFCI is recommended.
- Do not service this device without first unplugging the power cord.
- Make sure the control module and the handset cords are properly positioned before operating the bed. Do not allow either of these cords to get caught in the moving members of the bed.
- Do not operate this device if the power cord or any of the cords between the control module and the associated parts are cut, frayed or loosely connected.
- Do not use a bed with any missing or damaged parts.

Never disassemble your Bariatric bed. If problems are found, contact Gendron customer service at 1-800-537-2521 or your local authorized Gendron dealer.

## Intended Use & Product Description

**3-Function Homecare Beds** are designed for bariatric patients. The bed is ideal for long term use in the home or nursing care centers. It is intended for all age groups with varying medical and physical conditions. Total safe working load of the bed is 650 pounds.

### **THREE 3-FUNCTIONS**

1) Raise and lower head    2) Lift and lower leg and foot section    3) Elevate bed height

- Functions are powered by 24-volt DC electric actuators.
- Electrical Power: 100-240 volt AC power control module converts system to 24-volt DC. Electrical actuators, handset, and control module meet UL, CE, & CSA listing.
- Power plug: Three-prong hospital type plug, grounding meets NFPA standards.
- Construction: Constructed entirely of welded steel frame, powder coat finish.
- Side Rails: Three position, drop down style.
- Casters: Heavy Duty 5 inch casters. Two individual total lock (head end) and two individual steer type (foot end).
- Accessory sockets: One IV socket on each corner of bed.
- Delivery: Bed frame is disassembled into two sections for handling.

## Function & Basic Operation

The **3-Function Homecare Bed** has electric drive actuators to operate the back rest, the leg lift, and to raise and lower the bed. To control the positioning on these beds use the 6-button, 3-function handset. These beds do not have the Trendelenburg or reverse Trendelenburg feature.

**HEAD UP** ↑ and **HEAD DOWN** ↓ buttons raise and lower backrest (head end)

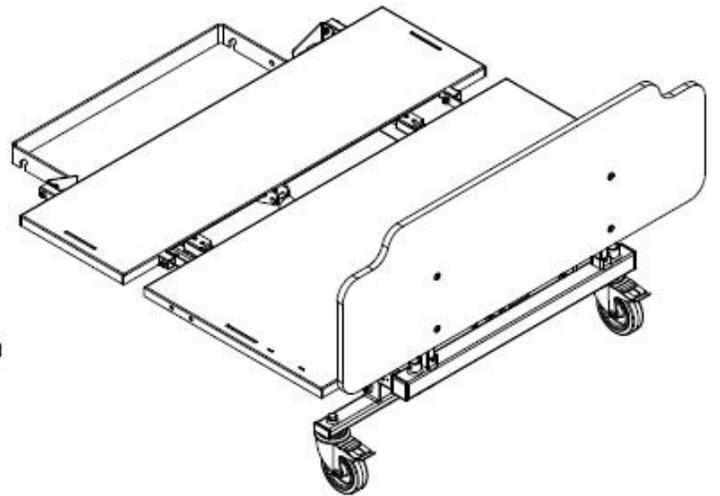
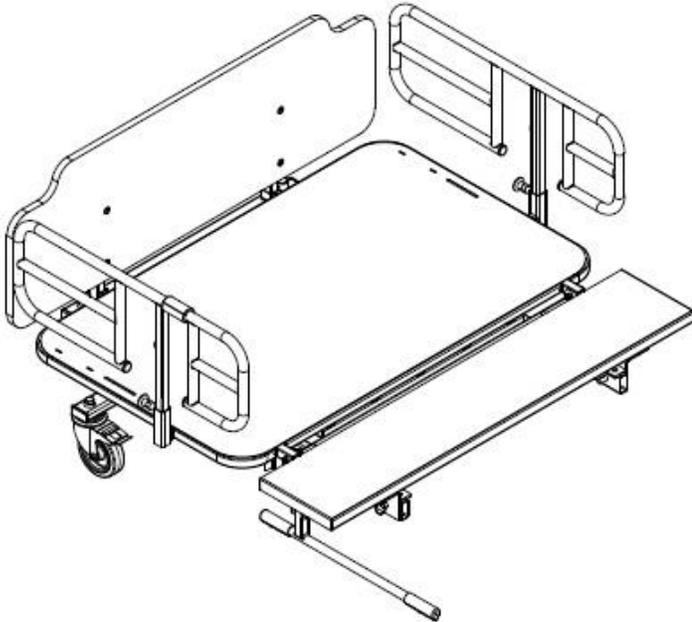
The **FOOT UP** ↑ and **FOOT DOWN** ↓ buttons raise and lower knee and leg sections

The **BED UP** ↑ and **BED DOWN** ↓ buttons raise and lower the bed



## Assembly Instructions

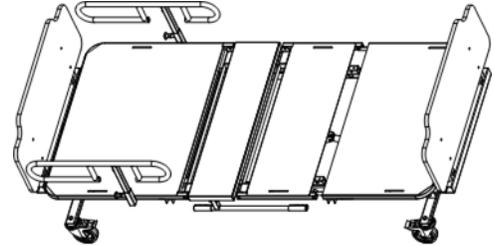
1. Install the headboard posts in the square sockets provided at the head end with the board closest to the mattress as shown below.
2. Install the footboard posts in the square sockets provided at the foot end with the board away from the mattress as shown below.
3. Install the siderails as shown below.
4. Install the lift handle with bolt and lock nut. Be sure that lift handle is in the correct orientation (see picture below).



## Setup Instructions

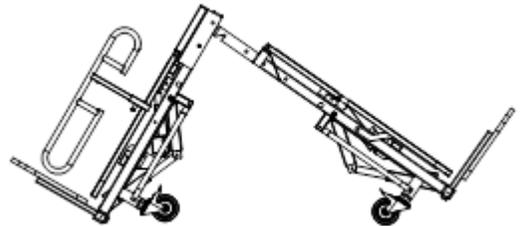
To Assemble:

Step 1. Lock head & foot end casters parallel to frame & oriented as shown.



Step 1

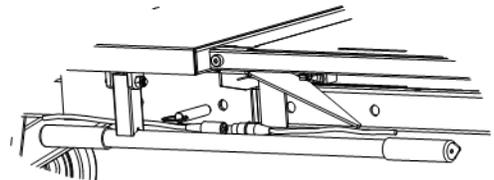
Step 2. Move bed into position as shown and hook the foot end frame over the round bar on the head end frame.



Step 2

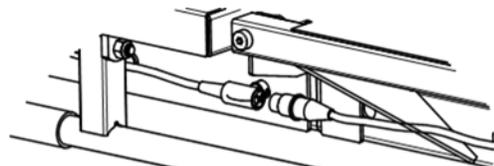
Step 3. Swing lift handle out and slowly lower bed. Keep both hands on handgrips until bed has been completely lowered to reduce the risk from pinch areas.

Step 4. Insert quick release pins on both sides of frame.



Step 4

Step 5. Connect both actuator cables from foot end of frame to head end of frame.



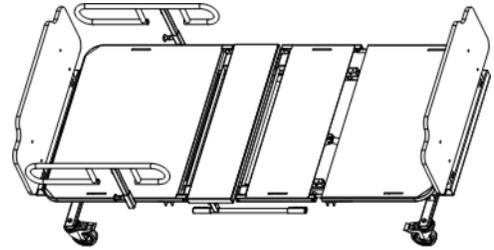
Step 5

## Setup Instructions

### To Disassemble:

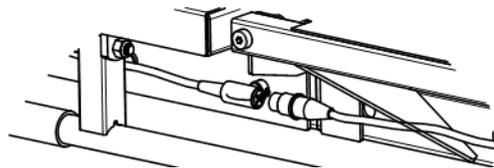
Step 1. Completely lower bed and all bed sections.

Step 2. Lock head & foot end casters parallel to frame & oriented as shown.



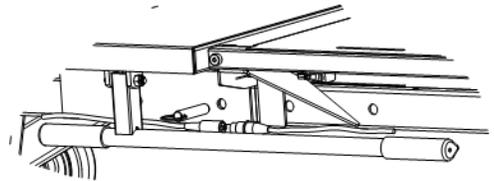
Step 1 & 2

Step 3. Disconnect both actuator cables from foot end of frame to head end of frame.



Step 3

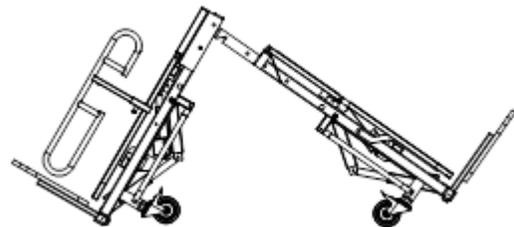
Step 4. Remove quick release pins on both sides of frame.



Step 4

Step 5. Swing lift handle out and slowly lift bed. Keep both hands on handgrips until bed has been completely lifted to reduce the risk from pinch areas.

Step 6. Lift foot end frame away from head end frame.



Step 5 & 6

## Setup Instructions

### **Perform the following checks before using the bed:**

1. Do a careful walk around inspection of the bed. Look underneath the bed to make sure there is nothing stored there. This area must be kept clear to avoid any interference with bed parts, which move during operation.
2. When bed is in high position, bed should not be placed against a wall. Completely raise and lower bed to verify that the bed frame will not contact a wall during use.
3. Lock the casters (two individual lock and two steering control type casters) rotate steering casters until they lock in place.
4. Plug the power cord into a 100-240 volt AC grounded socket with a capacity of at least 3.9 amperes. Using the handset, cycle the bed through all of its operations. (see page 6) Make sure that everyone (including you) is clear of the bed during these operations. See that:
  - a) All powered bed operations work smoothly and stop in the desired position.
  - b) Bed height, angle of the leg lift and backrest can be adjusted as desired.
5. Position the side rails. Be sure they slide up and down properly.
6. When you are satisfied that the bed is operating properly, instruct all personnel who may be involved in the bed operation.

If problems are found, contact Gendron customer service at 800-537-2521 or your authorized Gendron dealer

## Operating the Bed

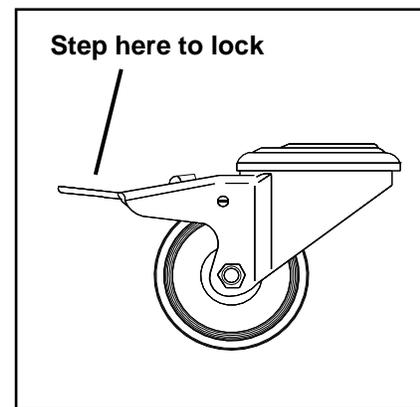
### Steering the bed

The Bed can be steered in two modes, with the steering locked or with all four casters able to move independently. The two casters on the foot end are the “steer” control type (page 2).

#### Foot end: Using the steering lock function

The steering lock function allows you to easily steer the bed in a straight line.

At the foot end of the bed, step down on the front of either caster pedal until it clicks, then move the bed in a straight line about 3 feet backward or forward to lock. This action will keep the caster from swiveling and allow better forward and backward movement. The bed can now be moved with greater stability. Push the bed from the head end. Do not lock the other steering caster.

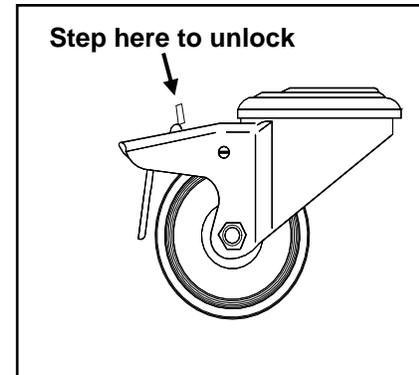


**“Unlocked”**

#### Using the 4-caster free function

To allow the bed to be rolled alongside a stretcher, unlock all four casters.

To unlock, step down on the back of the control pedal on each caster as shown in the illustration.



**“Locked”**

### Locking the Casters

The locking function holds the bed motionless when the bed is parked. Lock all casters when transferring the patient to and from a bed. Casters are the individually locking type. For stability when parking the bed, the casters should be positioned in-line with bed frame.



#### **Caution**

The caster lock is not designed to stop a bed that is in motion. Do not operate the caster control pedal while moving the bed, otherwise an injury or accident may occur.

## Operating the Bed

### Upright Back Position

The Backrest stops at any angle between 0 degrees (horizontal) position and an upright position of about 50 degrees.



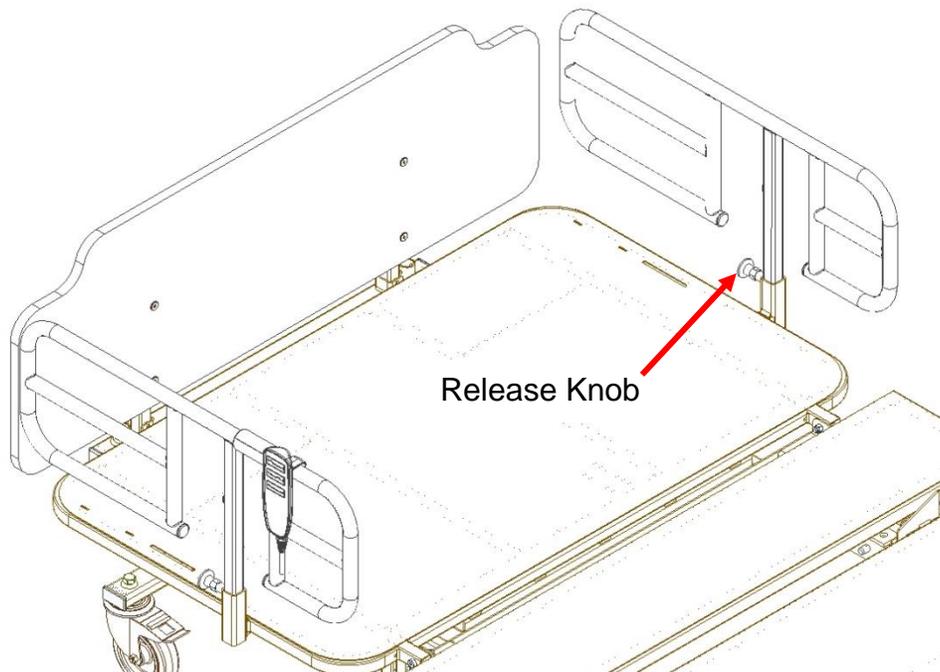
**Warning**

Before operating the backrest always ensure that casters are locked. Otherwise an accident or injury may occur.

### Siderail Adjustment

Side rails are located on each side of the bed. Side rails have a 3-position vertical adjustment.

To raise or lower side rail, grab top section of rail with one hand while pulling the Release Knob with the other hand. Pull side rail up or down as required. Allow the Release Knob to spring back into locked position.

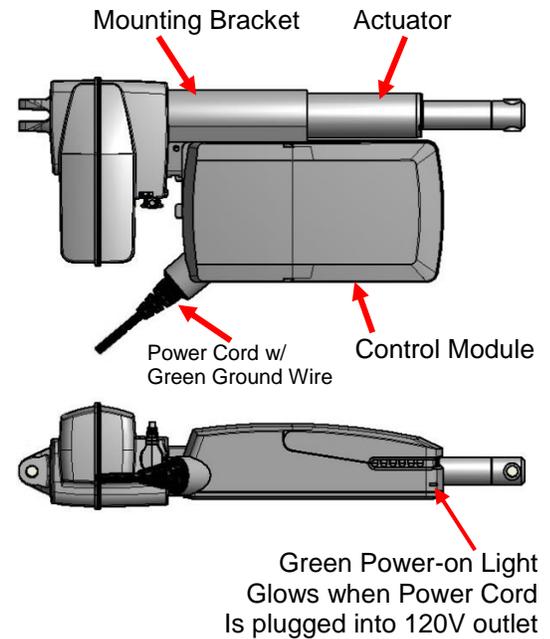
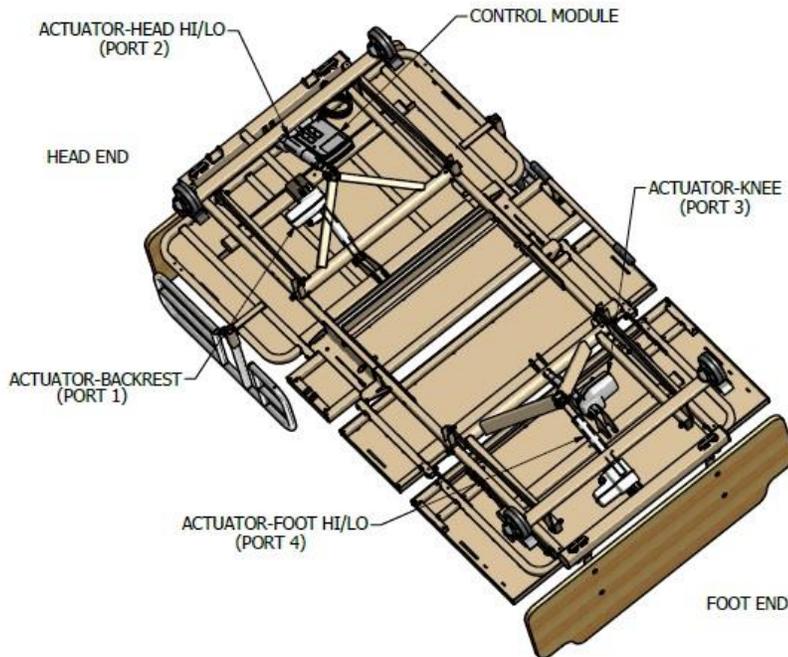


**Warning**

Make sure side rails are securely locked into position. Otherwise an injury or accident may occur.

**Actuators, Control & Handset**

**Bottom View of Bed**



**LINEAR ACTUATORS**

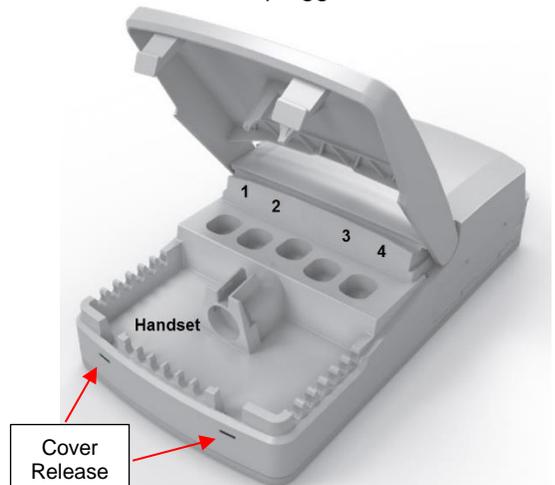
The bed is equipped with 24V DC Linear Actuators designed with built in travel limit switches. Each actuator is equipped with quick release pivot pins (3/8" x 2") on both ends. If disassembled retain pivot pins and hairpin clip.

**CONTROL MODULE**

The Control Module is designed to control all actuators in the system. The Control Box mounts directly on one of the actuators as shown.

**HANDSET**

The Handset is used to control all actuator functions. When not in use, Handset hooks on the top of the siderail.



**CONTROL MODULE WIRING DIAGRAM**

**GROUND WIRE**

Green wire from power cord connects to bed frame. Secure with screw and star washer.

**NOTE:**

Before removing connectors from control module for any reason, disconnect the power cord. Assure that all connectors are fully plugged in before closing cover on control module when finished.

## Diagnostic & Repair

Problem	What to look for	Solution
No Power	1. Is green light on control module on?	If yes go to Power but no function section.
	2. Is the mains cable damaged?	If yes, replace mains cable.
	3. Is it plugged into the wall?	Plug mains cable into a functional wall receptacle.
	4. Is it plugged into control module?	Plug mains cable into the control module.
	5. Is there power to the wall receptacle?	If yes, replace control module.
Power but no function	1. Is green light on control module on?	
	2. Is there damage to the handset or cable?	If yes, replace handset.
	3. Is the handset plugged in?	Plug in handset.
	4. Are all of the motor cables plugged into the actuators and control module?	Plug motor cables into actuators and control module.
	5. Are any of the actuator motor cables damaged?	If yes, replace the damaged motor cable.
	6. Is the control module chirping?	If yes, call Gendron Customer Service.
Actuator not functioning	1. Is motor cable plugged into actuator and control module?	Plug motor cable into actuator and control module.
	2. Is the motor cable damaged?	If yes, replace motor cable.
	3. Is the actuator damaged?	If yes, replace actuator.
	4. Does the actuator make any sounds when function button is pushed?	If yes, check for any mechanical binding on bed.
	5a. Can you change ports on the control module and get it to work? (Ports 1 &3 or 2 & 4)	If initial suspect actuator still does not move but switched port actuator does, then replace the motor cable and suspect actuator. If suspect actuator moves but switched port actuator does not, then replace the control module.
	5b. Does other actuator that the port was switched with not work now?	

## Cleaning & Maintenance

	<b>Warning</b>
	Before cleaning any portion of bed, disconnect power cord from the wall outlet. Do not use a power washer to clean bed.

	<b>Caution</b>
	Before using any cleaning product, test it on the underside of the bed. Never use any volatile or flammable fluid (thinner, gasoline, etc.) that could cause discoloration or deterioration.

### CLEANING

Use mild soap and water or a non-abrasive hospital-grade detergent disinfectant to clean the bed. Wet a cloth with the cleaning product and wring dry. Then gently wipe off the bed. Use caution when cleaning around the electrical connections to prevent shock to the person or damage to the electrical components.

### PERIODIC INSPECTION AND MAINTENANCE

INSPECTION ITEM	INTERVAL		
	EVERY 3 MONTHS	EVERY 6 MONTHS	EVERY 12 MONTHS
CHECK THAT ALL NUTS AND BOLTS ARE TIGHT	X		
INSPECT BUSHINGS AND LUBRICATE ALL PIVOTS WITH FDA APPROVED LUBRICANT	X		
CHECK THAT RELEASE PINS SPRING BACK TO LOCKED POSITION		X	
CHECK THAT RETAINING PINS ARE PROPERLY INSTALLED IN CLEVIS PINS		X	
CHECK ALL ELECTRICAL WIRES FOR FRAYS, KINKS AND/OR DETERIORATION		X	
CHECK BRAKE AND STEER CASTERS FOR PROPER OPERATION AND ORIENTATION		X	
CHECK ALL ELECTRICAL CONNECTIONS FOR TIGHTNESS			X
CHECK ALL WELDS FOR CRACKS			X

**ANY DISCREPANCIES NOTED DURING INSPECTION MUST BE CORRECTED BEFORE USING THE BED.**

## Specifications

**Product name: Gendron Bariatric Homecare Bed**

**Model: 3648**

**650 LB. CAPACITY**

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**Dimensions:**

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**Maximum Overall Width** 51"

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**Pan Width** 48"

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**Overall Length** 90" with headboard and footboard installed

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**Pan Length** 84"

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**Mattress Pan Height** Above floor, adjusts from 15" to 32"

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**Weight** 371 Pounds

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**Back angle** 0 to 50 degrees

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**Knee gatch angle** 0 to 25 degrees

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**Electrical Input** 100-240 VAC, 50/60 Hz -15%/+10%, 3.9 A

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**Duty Cycle** Max. 10% or 2 min. continuous use followed by 18 min. not in use.

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**Wash Down Rating** IPX4

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**Electrical Approvals** UL, CE, & CSA

Note:

All Dimensions are approximate.

## Specifications

### ENVIRONMENTAL CONDITIONS

Operating	
Temperature Relative humidity Atmospheric pressure	5°C to 40°C (40°F to 105°F) 20% to 90% @ 30°C (85°F) – not condensing 700 to 1060 hPa (20.67 to 31.30 inHg)
Storage and Transport	
Temperature Relative humidity Atmospheric pressure	-10°C to +50°C (15°F to 120°F) 20% to 90% @ 30°C (85°F) – not condensing 700 to 1060 hPa (20.67 to 31.30 inHg)

### ELECTROMAGNETIC COMPATIBILITY

Medical electrical equipment needs special precautions regarding electromagnetic compatibility (EMC) and needs to be installed and put into service according to the EMC information provided.

- a. Portable and mobile radio frequency (RF) communications equipment can affect medical electrical equipment. This Product is intended for use in the electromagnetic environments specified.
- b. The end user of this product should assure it is used in such an environment.
  - i. Portable and mobile RF Communications equipment (cell phones) should not be used at close distances
  - ii. Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.

## Warranty

**Defective parts will be repaired or replaced by the company or its appointed agent. The warranty does not cover damage caused by misuse or negligence, nor does it cover defects or damages by use of unauthorized parts or service by an unauthorized person.**

Gendron, Inc. warrants the bed frame to be free from defects in materials and workmanship for a period of five (5) years from date of purchase. Wear items including, but not limited to: casters, actuators, control module, handset, power cord, cables, bearings, pins, release knob, and mattress are warranted to be free of defects in material and workmanship for a period of one (1) year. If within such warranty period any such products shall be proven to be defective, such product shall be repaired or replaced, at the company's option. This warranty does not include any labor or shipping charges incurred in replacement part installation or repair of any such product. The company's sole obligation and your exclusive remedy under this warranty shall be limited to such repair and/or replacement.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

For warranty service please contact Gendron, Inc. Return authorization is required. Do not return products without our prior consent.

**FREIGHT DAMAGE:** All Gendron product ships FOB Factory, and risk of loss/title to the goods passes to the buyer at our dock when the carrier signs the BOL. Buyers should carefully inspect all packages upon receipt, and note any damages with the carrier prior to accepting shipment. Gendron is not responsible for products damaged in transit.

Should a load arrive with packaging damaged in any way, specific damages should be noted on the carrier's Delivery Receipt. If the load has significant damage, it should be refused and returned to Gendron "FREE ASTRAY," and Gendron's Customer Service team should be notified immediately.

In the case of freight damaged equipment returned to our plant, Gendron will assess the damages to repair the item on a "billable repair" basis. At that point, the buyer has a repair invoice to support a freight claim with the carrier. Buyers may make their own freight arrangements or use a carrier of our choice, but all loads are shipped FOB Factory.

**RETURN GOODS:** Call customer service at (800) 537-2521.

Do not return merchandise without prior authorization. All correspondence relating to this warranty must indicate Model and Serial number and be addressed to:

Gendron Inc.  
520 W Mulberry St. – Suite 100  
Bryan, Ohio 43506