

MAXI REST BARIATRIC BEDS

Models: 4842SVB Series

Owner's Operation Manual



ConvaQuip Ind., Inc.

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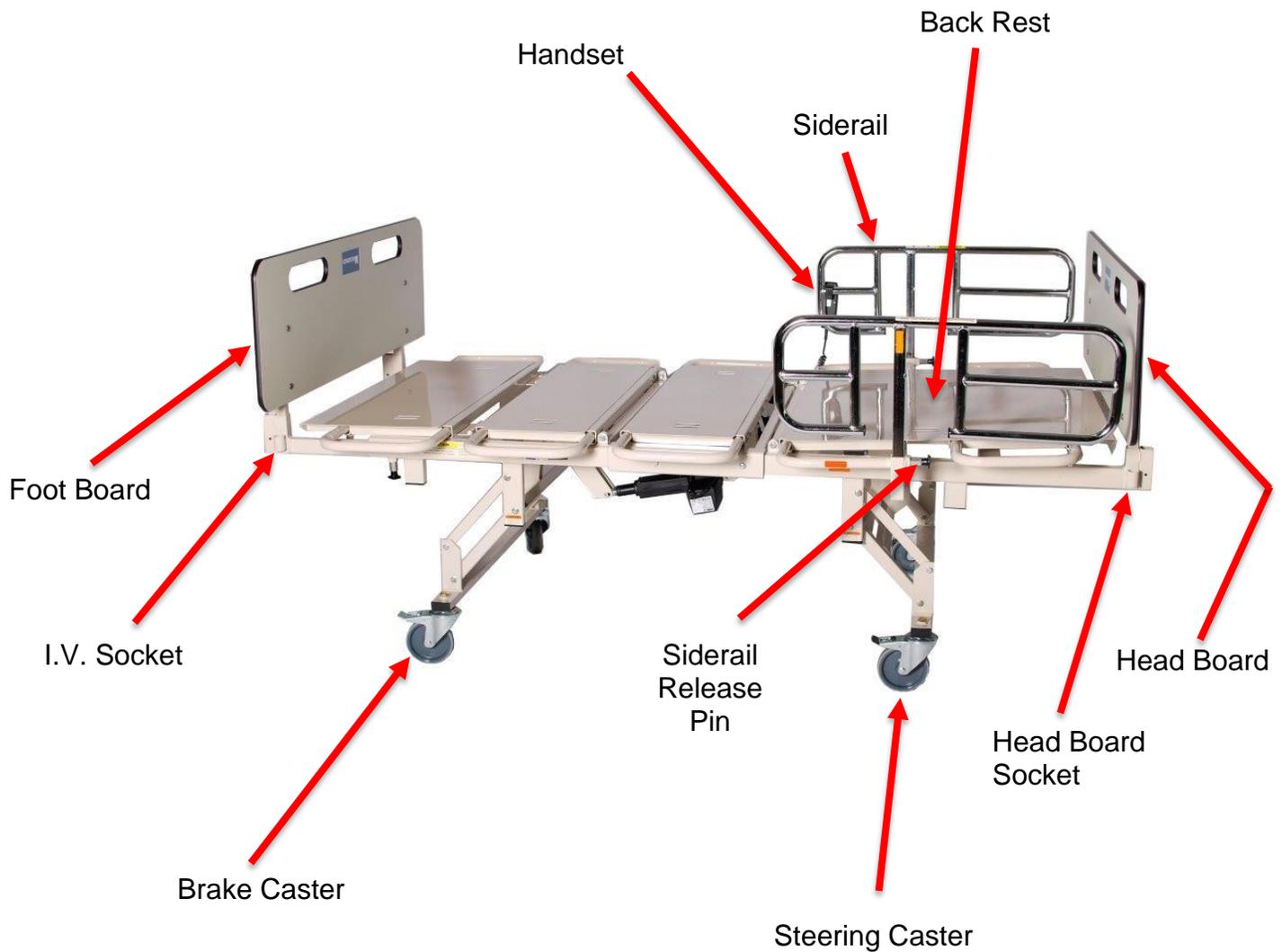
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Parts Locator



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 side rails whenever the patient is lying on the bed in the supine position.
- Always lock all casters and align parallel to the patient before use (see page 13).
- Take special care to lock the casters securely when reclining or inclining the bed or when transferring the patient to or from the bed.
- Place bed in level position 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 supine position.
- 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.
- The Trendelenburg position should only be attempted when the patient has been secured in the bed with both side rails up.
- Do not move the bed using the side rails. Use the provided slots in the Head board and Foot board if two people are moving the patient. Use the provided slots in the Foot board (when the steering castors are locked properly) if one person is moving the patient (see page 11).
- Place the bed in its lowest position before transporting the patient.

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 weight limit of your bed (combined weight of user and items on bed.) Exceeding weight limit may cause bed to fail. The capacity label is on the Back Rest and on the serial number label.
- **Power Requirements:** Electrical hazard may occur if device is plugged into inadequate power supply. A power source of 120 VAC 60 Hertz with a capacity of at least 2.7 Amperes must be available to operate the bed. A three wire grounded receptacle must be supplied. A GFCI is recommended.
- **Battery Back-up:** The systems battery automatically charges when the power cord is plugged into an electric outlet. If electrical power is lost, the battery maintains a charge to allow the bed to be operated. However, if the power is off and the bed is operated for an extended time, the battery will lose its charge, the actuators will not function and the bed can't be raised or lowered.
- Do not service this device without first unplugging the power cord and battery. Caution: Bed sections can move even with power cord unplugged, because of backup battery.
- 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 for loosely connected.
- Do not use a bed with any missing or damaged parts.

Never disassemble your Bariatric bed. If problems are found, contact ConvaQuip customer service at 1-800-637-8436 or your local authorized ConvaQuip dealer.

Intended Use & Product Description

3-Function & 5-Function Beds are designed for bariatric patients. The bed is ideal for short term use in clinics, hospitals, and rehab centers; and long term use in nursing care centers. It is intended for all age groups with varying medical and physical conditions. Total weight capacity of the bed is shown on page 18.

3-FUNCTIONS

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

5-FUNCTIONS

- 1) Raise and lower head
- 2) Lift and lower leg and foot section
- 3) Elevate bed height
- 4) Trendelenburg
- 5) Reverse Trendelenburg

- Power functions are powered by 24-volt DC electric actuators.
- Electrical Power: 120 volt AC power transformer converts system to 24-volt DC. Electrical actuators, handset, transformer, and battery backup meet CE, UL, ETL & CSA listing.
- Power plug: Three-prong hospital type plug, grounding meets NFPA standards.
- Construction: Constructed entirely of steel, solid frame, powder coat painted.
- Frame: Expandable frame allows the bed to accommodate 39 inch, 42 inch and 48 inch (4842SVB Series Beds) wide support surfaces. The bed surface adjusts to allow it to fit through a 42-inch door opening.
- Side Rails: Head end, three-position, drop-down style.
- Foot End Side Rails (optional): three-position, drop-down style.
- Casters: Heavy Duty Five (5) inch casters. Two individual locking-type (foot end) and two steer type (head end).
- Accessory sockets: One IV socket and one square socket on each corner of bed.

Function & Basic Operation

The **Three-Function 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, HB43 (not shown). These beds do not have the Trendelenburg or Reverse Trendelenburg feature.

The **Five-Function Bed** has electric drive actuators to operate the back rest, the leg lift, raise and lower the bed, and to operate the Trendelenburg / Reverse Trendelenburg feature. To control the positioning on these beds, use the 8-button, 5-function handset, HB44 (shown below).

Supplied with each bed is a battery that can be used to adjust the bed in case of power failure.

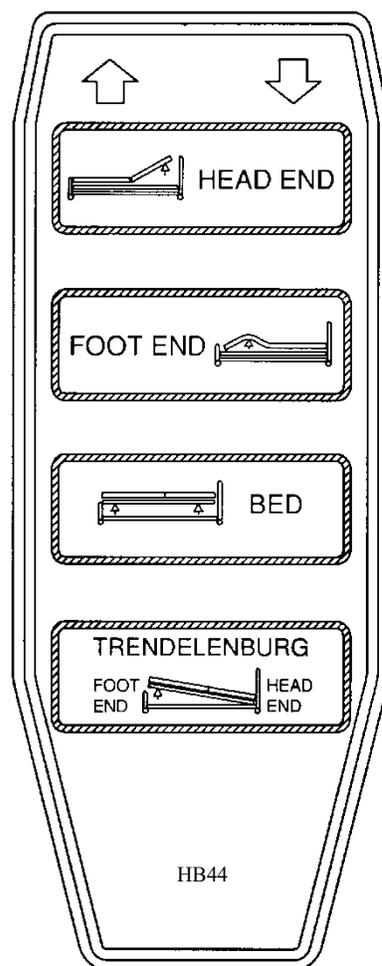
HEAD UP ↑ and HEAD DOWN ↓ buttons
raise and lower backrest (head end)

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

REVERSE TRENDELENBURG DOWN ↓ button
raises head end and lowers foot end of bed to a maximum angle of about 16 degrees

TRENDELENBURG UP ↑ button
raises foot end and lowers head end of bed to a maximum angle of about 16 degrees



Setup Instructions for Split Frame Beds

1. Unpack and orient the bed, as shown below.



2. Slide the Head End rails into the channels on the Foot End, as shown below.



Setup Instructions for Split Frame Beds

3. Continue pulling the frames together until the holes are aligned. Insert (2) ½" pins (one from each side). Retain the pins with Rue rings.



To insert Rue rings onto the pins, push the straight leg into the hole, until the Rue ring snaps into place (shown below left). To remove Rue rings, push the circular portion outward and pull the Rue ring out of pin (shown below right).



Setup Instructions for Split Frame Beds



4. Attach the bed lift actuator and the backrest actuator with (1) 3/8" clevis pin and (1) hairpin.

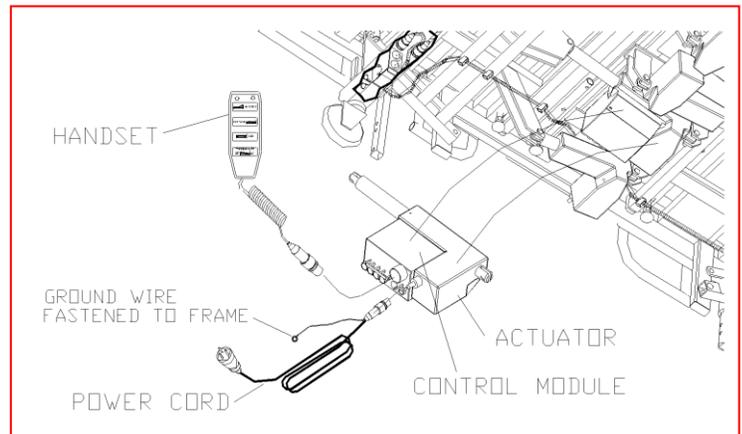
DECREASING BED HEIGHT FOR TRANSPORT



Always lower the bed to its lowest position which is against the "stops" before transporting the bed.

Assembly Instructions

1. The Control Module is located under the bed. The handset plugs into the control module; make sure it is securely fastened. If it becomes necessary to unplug the handset, remove plastic retainer strip then gently remove the plug from the control module (page 15).
2. Install the headboard posts in the inward most sockets provided at the head end, with the board closest to the mattress (page 2).
3. Install the footboard posts in the inward most sockets provided at the foot end, with the board closest to the mattress (page 2).



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. Lock the casters (two individual lock and two steering control type casters) rotate steering casters until they lock in place.
3. Plug the power cord into a 120 volt grounded socket with a capacity of at least 2.7 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 power bed operations work smoothly and stop in any desired position.
 - b) Bed height, angle of the leg lift and backrest can be adjusted properly.
 - c) Trendelenburg operates smoothly and can be stopped in any desired position. (on HB 44 handsets)
4. Position the side rails, be sure they slide up and down properly.
5. 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 ConvaQuip customer service at 800-637-8436 or your authorized ConvaQuip dealer.

Operating the bed

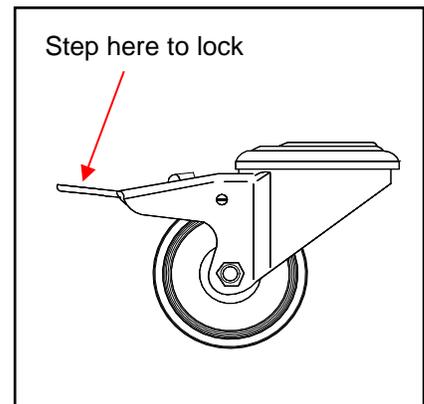
Steering the bed

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 head end are the “steer” control type (page 2).

Head end: Using the steering lock function

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

At the head 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 foot end. Do not lock the other steering caster.

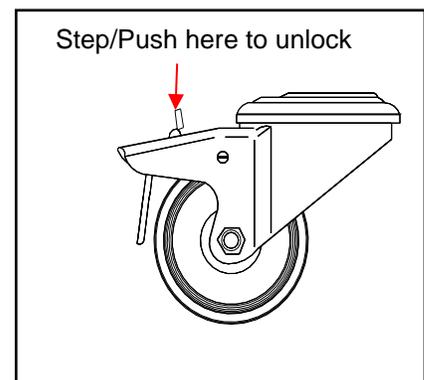


“Unlocked”

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”

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 as shown on page 13.



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 (Fowler)

The Backrest stops at any angle between 5 degrees (horizontal) position and an upright position of about 60 degrees.



Warning

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

SIDERAIL ADJUSTMENT

Head end 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. Raise or lower side rail, 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.

Bed width adjustment

BED WIDTH ADJUSTMENT

A Release Knob is located under each bed section, and at head & foot end of bed.



Release Knob

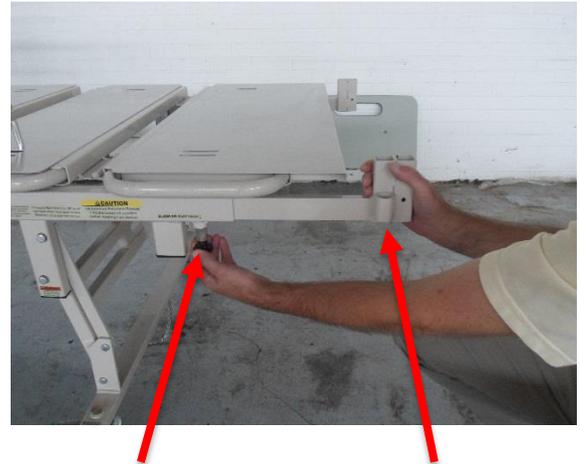
Width Extender

Bed Width Extenders: To increase bed width from 39" to 42" to 48" (4842SVB Series Beds), pull Release Knob down, while sliding the bed width extender in or out 4 ½" or 7 ½". Allow the release knob to spring back into locked position. There are five (5) sections on each side of bed. Repeat procedure on all sections.

Bed Length Adjustment



Remove the Footboard



Pull down Release Knob and pull Length Extender



Right side shown extended



Repeat for other side



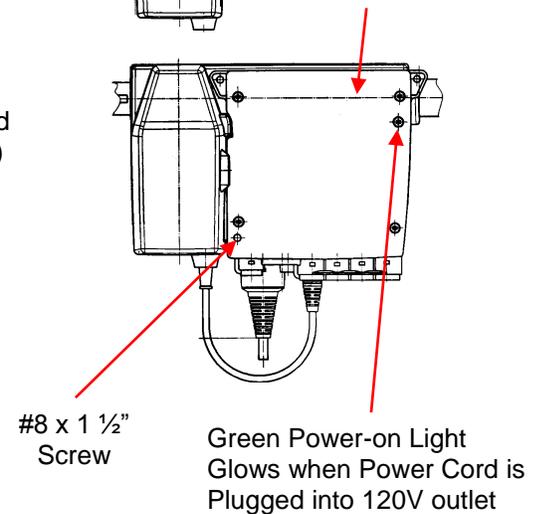
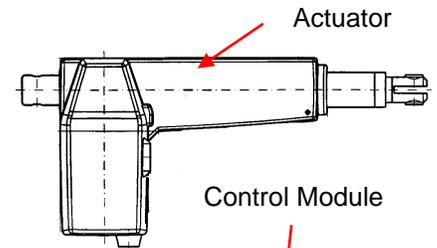
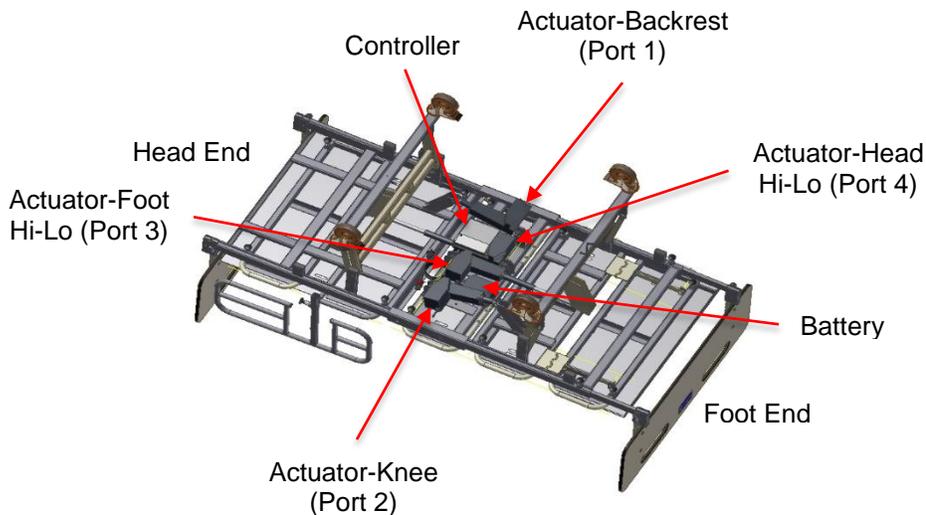
Placing Footboard



Completed extended length

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. Retain with #8 x 1 1/2" screw.

HANDSET

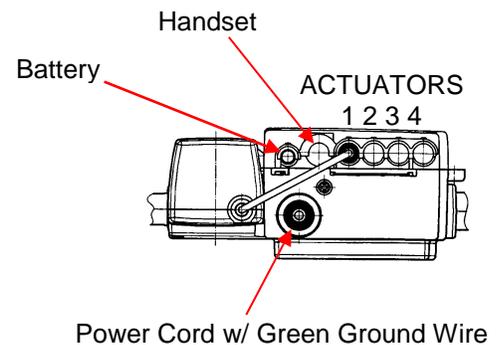
The Handset is used to control all actuator functions. When not in use, Handset hooks on the top of the siderail.

BATTERY BOX

Each bed is equipped with a 24V DC battery for use when power cord is disconnected or power is lost.

NOTE:

Before removing connectors from control module, remove plastic retainer strip. The retainer strip must be reassembled after connectors are plugged back in. Assure that all connectors are fully plugged in.



CONTROL MODULE WIRING DIAGRAM

GROUND WIRE

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

Diagnostic & Repair

PROBLEM	CAUSE	SOLUTION
No functions operate	No power to unit	Check power cord. Is it plugged into receptacle?
Green Power-on light does not glow	Electrical power cord not properly plugged into Control Module	Check cord for breaks.
Power cord plugged in but no functions operate	Bad handset	Check for power to receptacle. Replace handset.
	Bad control module	Replace control module.
Three actuators operate "OK" one actuator will not operate	Bad control module	<u>ISOLATE THE PROBLEM</u> Interchange connections on control module so that problem actuator is plugged into an actuator connection on the control module that is working satisfactorily. If problem actuator now operates "OK" but actuator that was operating "OK" now has a problem, either the control module or handset is faulty. Replace as required.
	Bad handset	
	Bad actuator motor	
Actuator will not function properly Or not at all	Defective wiring	Check wiring between control and actuator. Reverse wires.
	Defective Actuator Motor	Replace actuator
Battery will not charge	Defective wiring	Check wiring between control module and battery
	Defective battery	Replace battery
Bed not grounded	Unit is not grounded between power cord and frame or between power cord and wall receptacle	Check the ground (green wire) between frame and power cord Is power cord plugged into a grounded wall receptacle?

Cleaning & Maintenance

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

Caution: 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.

YEARLY INSPECTION AND MAINTENANCE

Once per Year:

1. Check all the bolts to be sure that none have worked loose.
2. Check that all pins are in their locked position and securely fastened.
3. Check all welds for cracks.
4. Check all electrical connections for tightness
5. Lubricate all pivot points with FDA approved grease or dry Teflon lubricant.
6. Check all electrical wires for any frays, kinks and or deterioration.
7. Check lock and steer casters for proper operation.
8. Check that CPR function operates properly.

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

Specifications

Models: 4842SVB Series

800 LB. CAPACITY

Dimensions:

Maximum Overall Width 51"-----Models: 4842SVB Series will collapse to 39" (with bed sections and side rails slid in) to pass through a 42" doorway

Overall Length 96" with headboard and footboard installed

Models	Pan Width	Pan Length
4842SVB Series	adjusts from 39" – 42" to 48"	length extends from 80" to 88"

Mattress Pan Height Above floor, adjusts from 15" to 29"

Weight 440 Pounds

Back angle 5 to 60 degrees

Trendelenburg angle 0 to 16 degrees

Reverse Trendelenburg 0 to 16 degrees

Note:
 All Dimensions are approximate.
 S - Indicates split frame model

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.

ConvaQuip 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, battery, power cord, cables, release cables, bearings, pins, release knob, sliders 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 ConvaQuip Return authorization is required. Do not return products without our prior consent.

FREIGHT DAMAGE: The carrier who delivers merchandise to your door is responsible for loss and damages. Acceptance of the shipment by you is acknowledgment that all articles delivered were in good condition and properly packed. Therefore, all claims for loss or damage must be filed immediately with the freight carrier. Then notify us. We will mark our records accordingly. After settling claim, damaged merchandise will be picked up by the freight carrier and returned. Should you need assistance with the claim, call customer service at (800) 637-8436.

RETURN GOODS: Call customer service at (800) 637-8436

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

ConvaQuip Ind., Inc
500 County Road 239
Abilene, TX 79601
www.convaquip.com

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Made in the USA

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