

**B120C (Semi-Electric) & B130C (Full-Electric)**

# **Home Care Bed**

User Manual



**DEALERS:** This manual *MUST* be given to the user of the bed.

**USER:** Before using this bed, read this manual and save for future reference.

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# 1.0 GENERAL WARNINGS

## 1.1 Assembling the Bed

DO NOT overtighten the mounting hardware as this will damage the mounting brackets.

DO NOT modify this equipment without authorization of the manufacturer. Doing so will void the warranty.

DO NOT use accessories that are not designed or approved for use with the bed.

## 1.2 Operating the Bed

DO NOT operate your bed until it is fully assembled and checked.

DO NOT exceed maximum weight limitation of the bed. The maximum safe working load (SWL) of the bed is 450 lbs. The maximum patient weight is 400 lbs.

ALWAYS make sure the power cable is clear of any moving parts of the bed before switching on the power.

ALWAYS keep hands and fingers away from moving parts to avoid injury.

ONLY use appropriate mattresses and ALWAYS adjust the mattress retainer system accordingly to ensure the mattress is fixed in place.

The mattress platform shall be kept in a flat position if the patient's condition could lead to patient entrapment.

ALWAYS keep the bed at the lowest position when the patient is unattended.

## 1.3 Performing Maintenance

ONLY qualified personnel should carry out the bed maintenance.

DO NOT attempt to open the pre-sealed actuator or obtain local service, for it will VOID the warranty and might result in damage. Consult your dealer or manufacturer for further information.

Inspect the casters every six months to check for tightness and wear.

Regular maintenance of bed and accessories is necessary to ensure proper operation. DO NOT overtighten mounting hardware. This will damage mounting brackets.

## 1.4 Electrical and Earthing

### EARTHING

DO NOT, under any circumstances, cut or remove the earthing prong from any plug. Some devices are equipped with three-prong (earthing) plugs for protection against possible shock hazards. Where a two-prong wall receptacle is encountered, it is the personal responsibility and obligation of the customer to contact a qualified electrician and have the two-prong receptacle replaced with a properly earthed three-prong wall receptacle in accordance with the regional and national regulations. If you must use an extension cable, use ONLY a three-wire extension cable having the same or higher electrical rating as the device being connected.

DO NOT use if the power cable is cut, frayed or loosely connected to the device. Power supply cable may be damaged by inappropriate handling, e.g. by kinking, shearing or other mechanical damages. The POWER SUPPLY CABLE is only replaceable by SERVICE PERSONNEL.

## 1.5 Disposal

This product has been supplied from an environmentally aware manufacturer.

Where backup battery is used, DO NOT dispose of batteries in normal household waste. They MUST be taken to a proper disposal site. Contact your local waste management company for information.

This product may contain substances that could be harmful to the environment if disposed of in places (landfills) that are not appropriate according to legislation.

Please be environmentally responsible and recycle this product through your recycling facility at its end of life.

## 1.6 Radio Frequency Interference

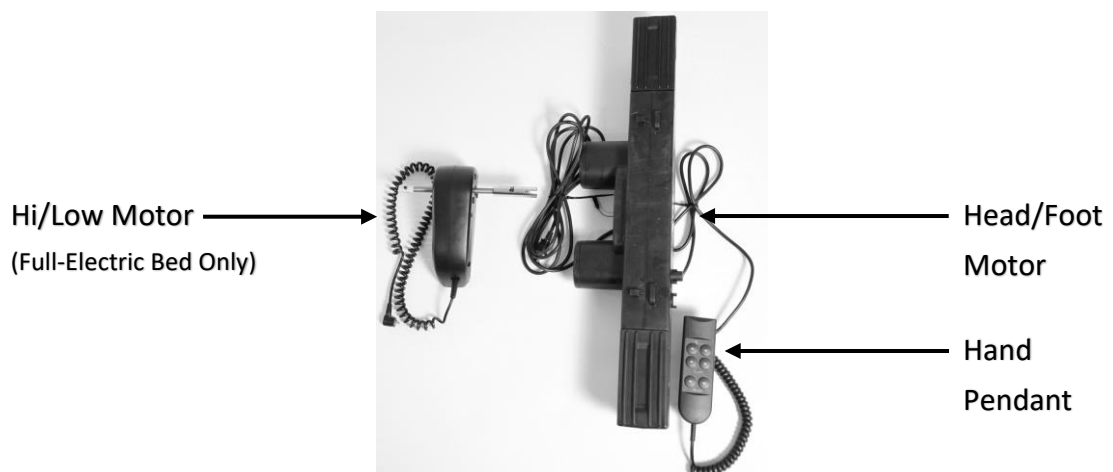
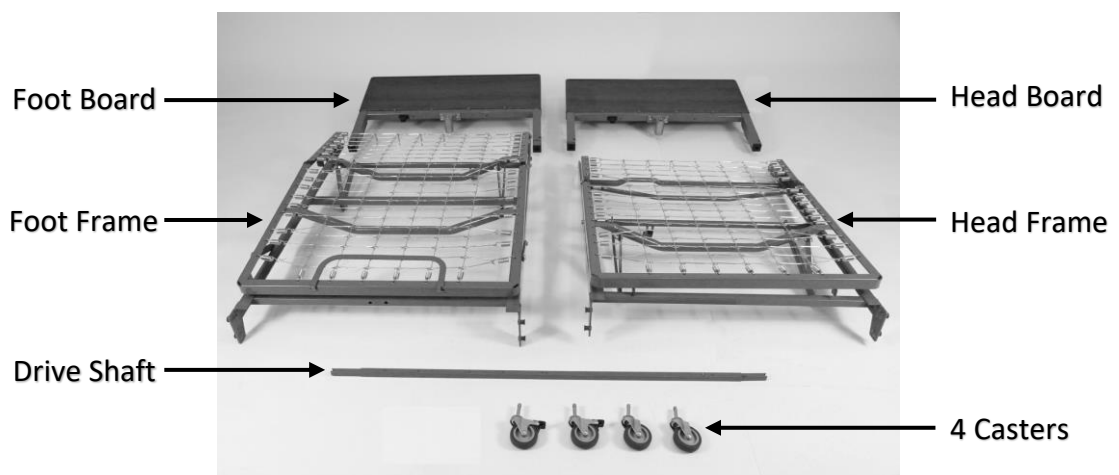
Most electronic equipment is influenced by Radio Frequency Interference (RFI). CAUTION should be exercised with regard to the use of portable communication equipment in the area around such equipment. If RFI causes erratic behavior, switch the power OFF IMMEDIATELY. DO NOT turn the Power Switch ON while transmission is in progress.

## 2.0 EQUIPMENT ASSEMBLY

### 2.1 Unpacking the Bed

1. Unpack the components from the shipping cartons.
2. Upon unpacking your bed, the package should contain all of the following components:

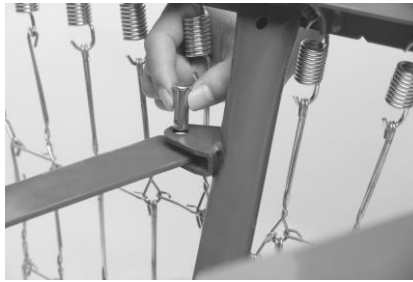
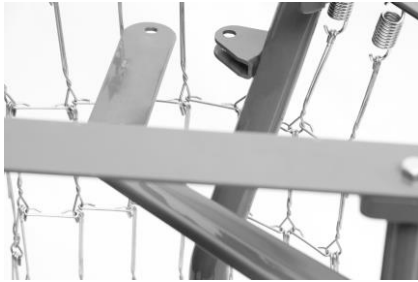
1 Instruction Manual	1 Foot board
1 Head board	1 Foot Spring Section
1 Head Spring Section	1 Dual motor
1 Length adjustable drive shaft	1 Hi-Lo motor (full elec. model only)
4 Castors (2 locking & 2 non-locking)	1 Hand pendant
3. Examine exterior of the bed components for nicks, dents, scratches or damages.



## 2.2 Assembling the Bed

### 2.2.1 Connecting the Lifting Plates on Each Frame

1. Remove the clevis and cotter pins from the U-shaped bracket on both sides of the drive shaft at foot section.
2. Align the U-shaped bracket with the holes on the lifting plate and insert the clevis pin through the mounting hole.



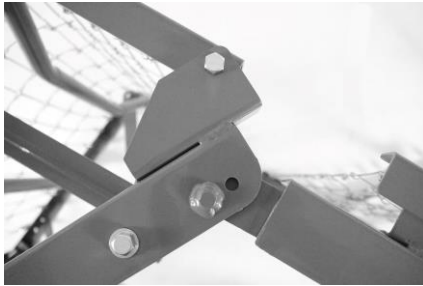
3. Secure the clevis pin with cotter pin. Repeat Step 2 and 3 on the other side.
4. Repeat the procedure on the head section.

### 2.2.2 Connecting the Two Frames

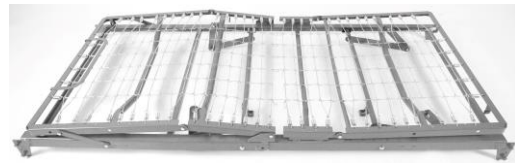
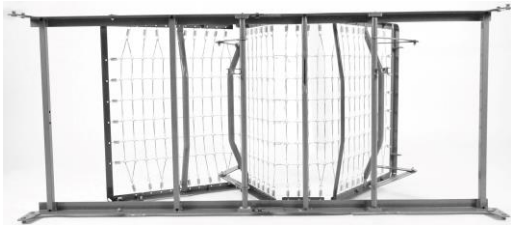
1. Temporarily remove the bolts and nuts in the middle joint of the foot frame.
2. Place both frames on its sides at approximately 90° to one another, springs facing the same side.



3. Hook the head frame mounting hooks to the foot frame mounting rivets.



4. After head and foot decks are connected, slowly flatten the frames and lay on the floor with spring facing up. Make sure the hooks remain engaged on the rivets at all times.



### 2.2.3 Installing the Casters to the Head and Foot Boards

1. Position the two locking casters so they will be diagonally opposite from one another when the bed is assembled.
2. Insert the shaft of the caster into the caster socket of each bed leg. Ensure the stem is fully inserted into the socket.



3. To prevent excess movement of the bed during assembly, lock each of the two locking casters by pushing down on the caster lock.
4. To unlock the two locking casters, pull up on the caster lock.

## 2.2.4 Installing the Head and Foot Boards

1. Stand the headboard section as close to the head frame as possible. Ensure the board and frame are paired correctly using the label on the boards.
2. Lift the head frame and hook the rivets onto the head board. Do not place your hand between the frame and the head board when joining the two pieces together.



3. Repeat the previous steps for foot board installation.
4. Insert a clevis pin through the hole between the two rivets at each corner to securely lock the frame and bed ends together. Secure the pin with an R-clip.

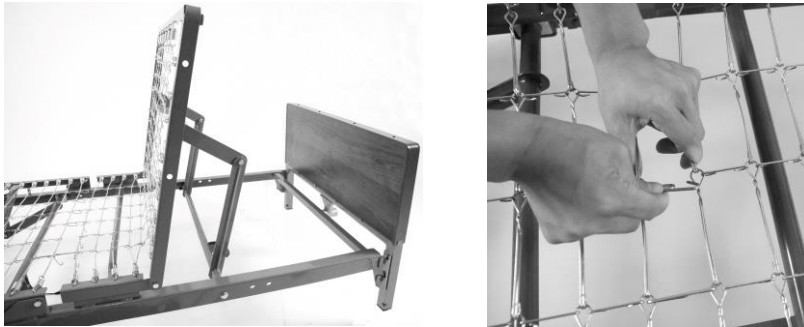


5. Re-insert the bolts that were removed under Step 1 of “Connecting the Two Frames” section, secure with nuts.



## 2.2.5 Connecting the Mattress Platform Springs

1. With the bed flat and the springs facing up, lift the head spring section upward to give slack to the spring “fabric”.
2. Repeat the procedure until all six mattress retainers are installed. There should be one retainer on either side of the bed and two on both ends of the bed.



## 2.2.6 Installing the Head/Foot Electric Motor Unit

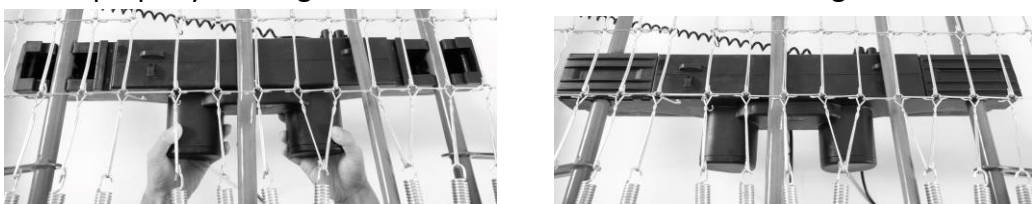
1. Ensure the hand pendant and Hi-Lo motor (Full-electric version only) cable is connected to the dual motor unit.



2. Remove the slide caps on both ends of the dual motor unit.



3. The motor is labelled on both sides with head and foot direction. Orientate the motor properly and align it with actuator bars and bed mounting brackets.



4. Clip the motor on to the actuator bars. Once the motor is mounted, attach the slide caps on both ends.
5. A backup battery connection is provided on the motor next to the power cord. It is designed to raise and lower the bed for emergency use only. To engage the backup power, connect a 9V battery (not included) to the battery clip.



### 2.2.7 Installing the Hi/Low Motor on the Full-Electric Bed

1. Make sure the slot on the Hi/Low Motor engages the roll pin on the gearbox axle.



## 2.2.8 Installing the Center Drive Shaft

1. Extend the drive shaft so the lock pin locks on to the second hole on the outer tube.



2. Attach either side of the drive shaft to the head board gearbox.



3. For Semi-Electric Bed: Attach the other end to the foot board gearbox.



4. For the Full-Electric Bed: Attach the other end to the foot board Hi/Low Motor.



## 3.0 EQUIPMENT OPERATION

### 3.1 Using the Hand Control Pendant

The UP arrow ( ▲ ) indicates raising the corresponding parts of the bed.

The DOWN arrow ( ▼ ) indicates lowering the corresponding parts of the bed.



Semi-Electric (B120C) Hand Pendant

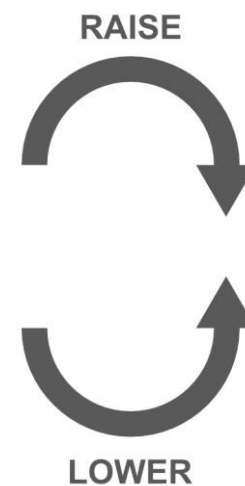
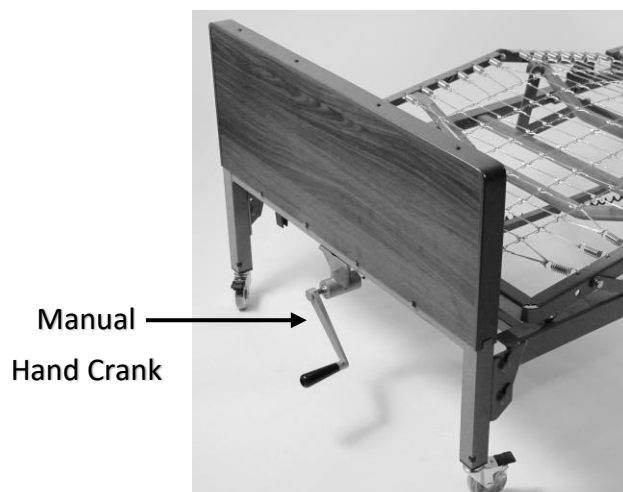


Full-Electric (B130C) Hand Pendant

### 3.2 Using the Manual Hand Crank

To raise the bed: Turn the crank handle clockwise.

To lower the bed: Turn the crank handle counter-clockwise.



## 4.0 PREVENTATIVE MAINTENANCE

### **A. Cleaning – It is recommended that the following cleaning procedures be conducted between uses and at least once a year.**

- 1.1. Unplug the power cord of electric beds before performing maintenance.
- 1.2. Wipe down with disinfectant. Allow to dry completely.

**CAUTION:** Avoid spraying water directly into the electric components to avoid damage.

### **B. Mechanical Inspection and Maintenance:**

- 2.1. Inspect all bed components for damage or excessive wear.
- 2.2. Inspect all mounting hardware for bending, damage or excessive wear.
- 2.3. Inspect all bolts and rivets to ensure that they are securely tightened and functioning properly.
- 2.4. Inspect sleeping surfaces to ensure all springs are intact.
- 2.5. Inspect caster wheels to ensure they roll properly.

### **C. Electrical Inspection and Maintenance:**

- 3.1. Inspect all electrical components for damage or excessive wear.
- 3.2. Check pendant, power cord and motor cables for chafing, cuts or excessive wear.
- 3.3. Make sure all of plugs are fully attached and free of damage.
- 3.4. Check all functions working properly.
- 3.5. Unplug power cord for testing back-up power –
  - 3.5.1. Connect a 9 Volt household batteries (not supplied) to the backup power connection.
  - 3.5.2. Check all functions working properly with back-up power.
  - 3.5.3. Remove the back-up battery immediately after testing and re-plug power cord for normal used.
- 3.6. Check all functions working properly after re-plug power cord.

### **D. To Maximize Services Life – To ensure maximum life of your bed, follow all of warning and cautions in the User Manual and maintain your bed with care – a thorough inspection should be conducted as follow:**

- 4.1. Run the bed frame to either the highest or lowest position once a day.
- 4.2. Observe bed operation and report any discrepancies or problems to service personnel.
- 4.3. Check and tighten all tubes and mounting hardware monthly.
- 4.4. Check and tighten all electric wires and cables are properly connected monthly.
- 4.5. Lubricate pivot point, pins and bolts every 2 months.

**WARNING:** Possible Shock Hazard. All electric components to ONLY be replaced by service personnel.

## 5.0 TROUBLESHOOTING GUIDE

SYMPTOMS	POSSIBLE FAULTS	POSSIBLE SOLUTIONS
Bed idle when hand pendant buttons are pressed.	<p>Adjustment may be at the maximum or minimum position</p> <p>Power cord not connected or damaged</p> <p>Hand pendant or actuator connectors are loose</p> <p>Load is too heavy</p>	<p>Check if other buttons are working.</p> <p>Ensure the power cord is properly connected to the electrical socket and the bed.</p> <p>Ensure tight connection of all connectors to control box.</p> <p>Ensure the load weight is within the designated capacity. Reduce the load.</p>
Casters/Brakes noisy or stiff.	Debris or fluff in bearings	Clean or replace casters.
Noisy or dry sound from pivots.	Needs lubrication.	Lubricate your bed.
Unusual noise from actuator.	Actuator is worn or damaged or spindle is bent.	Replace the actuator. Contact your supplier.

If problems persist following the above remedial procedures, please contact your dealer or the manufacturer.

## 6.0 LIMITED WARRANTY

This Costcare product is warranted to be free of defects in material and workmanship for one year of the original purchaser.

This device was built to exact standards and carefully inspected prior to shipment. This Limited One Year Warranty from the date of original purchase is an expression of our confidence in the material and workmanship of our products and our assurance to our customers for years of dependable services.

In the event of a defect covered by this warranty, Costcare will, at Costcare's option, repair or replace the device. The warranty provides only for replacement of defective parts and does not cover shipping and labor charges. Costcare's sole obligation and your exclusive remedy under this warranty are limited to such repair and/or replacement.

This warranty does not cover device failure due to the user misuse, abuse, negligence, or normal wear and tear. This warranty does not extend to non-durable components, such as rubber accessories, casters and grips, which are subject to normal wear and require periodic replacement.

This warranty shall not apply to serial numbered devices if the serial number has been removed, or altered, or defaced, or to defect or damages caused by unauthorized parts, attachments or repairs, negligence, operated by incorrect voltages, accident and circumstance beyond Costcare's control, or improper operation, maintenance or storage.

If you have a question regarding your Costcare device or this warranty, please contact an authorized Costcare Dealer.



[www.costcareprime.com](http://www.costcareprime.com)

