

USER MANUAL FOR

# long term care and low beds



**drive**  
MEDICAL DESIGN & MANUFACTURING

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## PACKAGING/HANDLING INSPECTION

### INSPECTION OF ALL COMPONENTS

Inspect - Receipt of shipment

1. Check bed components for obvious damage.
2. Inspect power supply cord for cuts and/or damage.
3. Check that the actuator cords are connected properly into the control box.

## ASSEMBLY INSPECTION-MECHANICAL

### SLEEPING SURFACE, FRAME AND BASE ASSEMBLIES

Inspect - 1 Year

1. Inspect welds on the sleeping surface, frame and base assemblies for stress fractures.
2. Inspect all fasteners for wear and looseness.

### HEAD/FOOT AND HI/LO ACTUATOR/PULL TUBES

Inspect - 1 Year

1. Inspect head, foot and hi/lo torque tube components for excessive wear.
2. Inspect head, foot and hi/lo torque tubes for bends, wear or stress damage. Clevis pins on head, hi/lo pull tubes should not be bent.
2. Tighten all actuator mounting hardware.

### CASTERS

Inspect - 1 Year

1. Check locks on both locking casters to ensure they are operational.
2. Check casters to ensure they roll properly.

## ELECTRICAL

### CONTROL BOX

Inspect - 6 months

1. Check power cord for chafing cuts or wear.
2. Make sure all attaching hardware is securely tightened.
3. Check electrical connections for wear or fractures.

### PENDANT

Inspect - 6 months

1. Check pendant cord for chafing cuts or wear.
2. Check all pendant functions:
  - Head raises and lowers properly.
  - Foot raises and lowers properly.
  - Bed raises and lowers properly (full electric only).

**NOTE:** Follow electrical troubleshooting guide if failures are experienced.

2. Check to make sure each button and associated function correspond

### ACTUATORS

Inspect - 6 months

1. Check actuator cords for chafing cuts or wear.
2. Check range of movement on all motors to ensure they do not bind in the FULL UP or FULL DOWN position.

**NOTE:** Should binding occur, adjust the pull tube of the actuator by turning it clockwise or counter clockwise (in or out) just enough to allow the motor to shut off automatically. Failure to do so will damage the head, foot, hi/lo function, and the internal gears of the actuator.

3. Lubricate acme screws as needed with petroleum jelly.

### WARNING/ CAUTION

Labels applied to the bed apply to hazards or unsafe practices that could result in personal injury and/or property damage.

### NOTICE:

The information contained in this document is subject to change without notice. Check all parts for shipping damage and test before using. In case of damage, DO NOT USE.

### WARNING - OPERATING INFORMATION:

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 Manual/Electric bed.

Keep all moving parts free of obstructions (i.e. blankets/sheets, heating blankets/pads, tubing, wiring, etc. and other types of products).

DO NOT use the side rails as push handles for moving the bed.

Trapeze units must be used ONLY in ASSISTING the patient in repositioning or transferring in or out of bed. NEVER allow patients to use a trapeze unit as a total individual weight support.

NEVER permit more than one (1) person on/in the bed at any time.

Body weight should be evenly distributed over the sleeping surface of the bed. DO NOT lay, sit or lean in such a way that your entire body weight is placed only on RAISED head or foot sections of the bed. This includes when assisting in repositioning or transferring in or out of bed.

## ELECTRICAL

The bed is equipped with a three-prong (grounding) plug for protection against possible shock hazard. **DO NOT**, under any circumstances, cut or remove the round grounding prong from any plug used on the bed.

**DO NOT** remove caution/warning labels applied to bed.

**NEVER** operate the bed if a cord or plug is damaged, or if it is not working properly; contact Qualified Service Personnel for examination and repair.

## REPAIR OR SERVICE INFORMATION

Do **NOT** open assemblies such as the actuators, hand control, and control box. If uncertified individuals perform work on these products, the warranty is voided.

**DO NOT** use unauthorized parts, accessories, or adapters.

Unplug the power cord when performing and maintenance on the bed.

## RADIO FREQUENCY INTERFERENCE

Most electronic equipment is influenced by Radio Frequency Interference (RFI). Caution should be exercised with regard to the use of portable communications equipment in the area around such equipment. If FFI causes erratic behavior, shut the bed **OFF** immediately. Leave **OFF** while transmission is in progress.

## WEIGHT LIMITATION

The weight limitation for Manual/Electric bed; taking into consideration patient size, proper positioning, realignment, transfer and overall care; is 450 pounds.

## PACKAGING/HANDLING INSPECTION

### INSPECTION OF ALL COMPONENTS

Inspect - Receipt of shipment

1. Check side rail components for obvious damage.
2. Check hardware package assuring all hardware is available for proper assembly.

## ASSEMBLY INSPECTION-MECHANICAL

### SIDE RAIL ASSEMBLY

Inspect - 3 months

1. Inspect side rails welds for stress fractures.
2. Inspect all fasteners for wear and looseness, replace and tighten as needed.
3. Bent side rails should be replaced immediately.
4. Lubricate all pivot points as needed.

## SAFETY SUMMARY

Side rails when used with a Manual/Electric bed DO NOT fall within any weight limitations. Side rails can be deformed or broken if excessive side pressure is exerted on the side rails. These side rails are for the purpose of preventing an individual from inadvertently rolling/climbing out of a bed. If an individual is capable of injuring himself/herself, an alternative means of preventing the patient from rolling/climbing out of a bed should be initiated.

Additional safety measures should be considered for patients identified as high risk for entrapment. Such patients include those with pre-existing conditions such as confusion, restlessness, lack of muscle control, altered mental status (organic or medication related), or a combination of these factors. Increased risk also occurs when the patient's size and/or weight are inappropriate for the bed's dimensions.

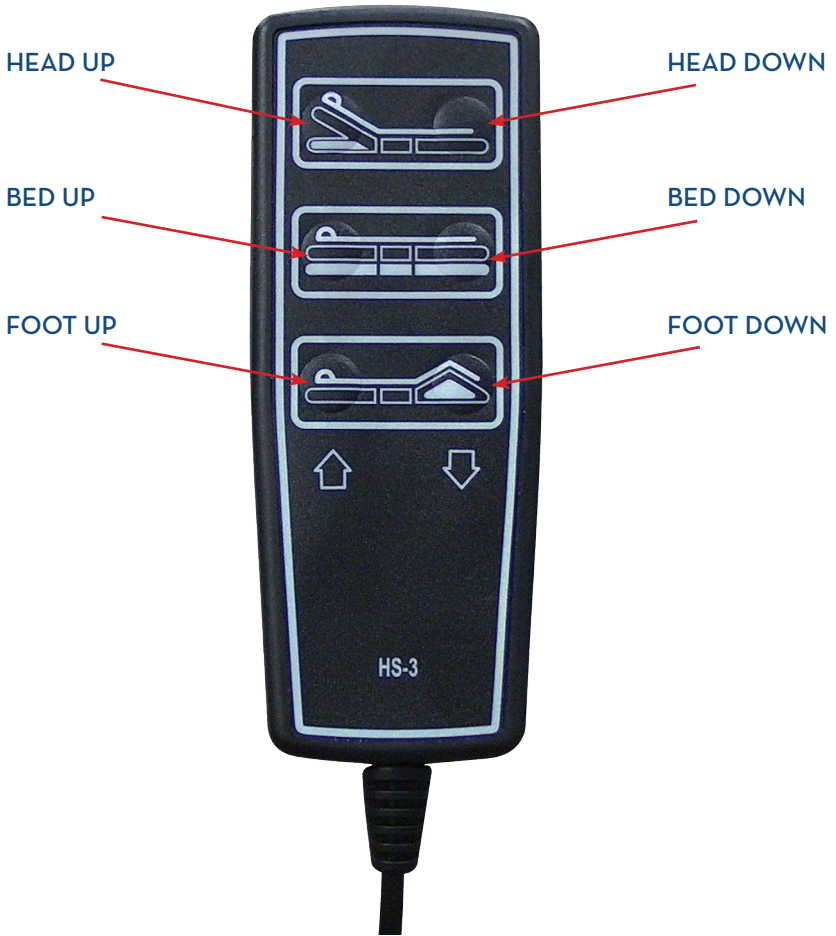
**DO NOT** use the side rails as push handles for moving the bed.

## SPECIFICATIONS DIMENSIONS

	80" LTC MANUAL	80" LTC ELECTRIC	80" LOW BED
Overall Length (Includes 1/2" rubber bumper)	85.75"	85.75"	85.5"
Overall Width (With rails)	40"	40"	40"
Overall Width (With boards)	36.5"	36.5"	35"
Overall Width (Without boards)	34.5"	34.5"	34.5"
Length of Mattress Surface	79.5"	79.5"	79.5"
Mattress Platform Height (Low Position)	15"	15"	8"
Mattress Platform Height (High Position)	26"	26"	17.5"
Maximum Knee Elevation	45°	45°	45°
Maximum Head Elevation	80°	80°	80°

## patient controls

Full electric beds are equipped with a pendant type hand control as standard equipment. Each control function (head, knee, and bed) has two clearly identifiable switches for up and down travel. The controls are designed to prevent damage to the motor in the event that both the up and down functions are activated simultaneously.





## 115 VOLT HIGH/LOW MOTOR:

- 4.0 Amps maximum
- 115 Volts AC, 60 cycles
- Automatic thermal protection
- 1/10 H.P.
- Gear Ratio 19:1
- Permanently lubricated internally
- Instant reversing

## 115 VOLT HEAD/FOOT MOTOR:

- 4.0 Amps maximum
- 115 Volts AC, 60 cycles
- Automatic thermal protection
- 1/10 H.P.
- Gear Ratio 19:1
- Permanently lubricated internally
- Instant reversing

## PRINTED CIRCUIT BOARDS

All circuit boards are tested by the board manufacturer, and by B.A.M.P. assembly department prior to shipping.

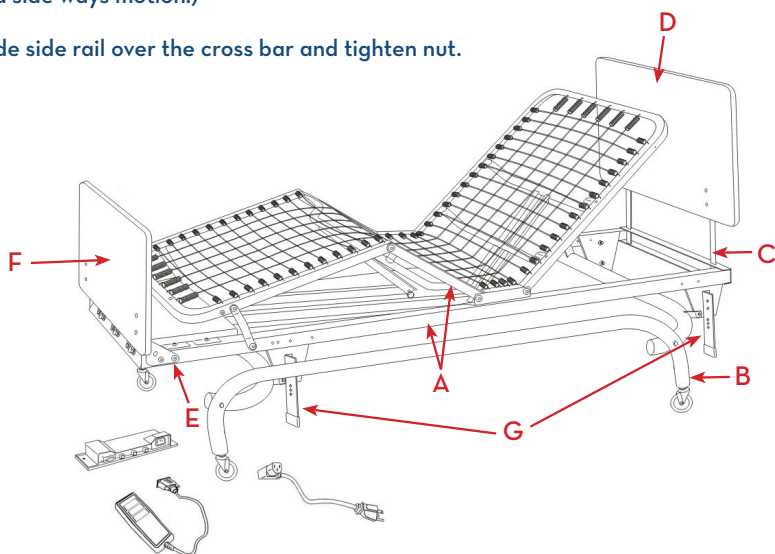
## ELECTRICAL CORD AND PLUG

Hospital grade, U.L./C.S.A. listed. The cord extends 92" from the end of the bed.

# assembly instructions for long term care beds

## MANUAL & ELECTRIC LTC BEDS

1. Open carton and check to make sure all parts are there and not damaged.
2. Lay bed spring (A) on one of its sides.
3. Place casters (B) in all four legs. Tilt frame slightly to put the casters on when working on the floor side.
4. Lay bed down on all four casters
5. Place the long mounting bracket (C) on the head board (D) (the larger of the two wood panels).
6. Place head board (D) into the slots on the head section of the bed spring. Place long bolts and tighten to secure.
7. Assemble the foot board by attaching the two angled mounting brackets (E) to the foot board (F) (the smaller of the two wood panels)
8. Rest footboard on foot section of bed
9. Align the holes in the mounting bracket with the holes in the foot spring section and attach using four bolts.
10. If manual bed crank bed up several inches. If electric use Hilo button to raise bed several inches.
11. Attach the four resting legs (G) on the four plates on both sides of bed.
12. If side rails are present mount the cross bar in the desired position using the holes on the bed spring frame (make sure you have proper clearance from side to side as rails moves in a side ways motion.)
13. Slide side rail over the cross bar and tighten nut.



# assembly instructions for low bed

1. Lay bed down on all four casters
2. Place the long mounting bracket (C) on the head board (D) (the larger of the two wood panels).
3. Place head board (D) into the slots on the head section of the bed spring. Place long bolts and tighten to secure.
4. Assemble the foot board by attaching the two angled mounting brackets (E) to the foot board (F) (the smaller of the two wood panels)
5. Rest footboard on foot section of bed
6. Align the holes in the mounting bracket with the holes in the foot spring section and attach using four bolts.
7. If manual bed crank bed up several inches. If electric use Hilo button to raise bed several inches.

