

**EXPANDABLE
DELUXE BED**



USER MANUAL

Deluxe Expandable Bariatric Low Bed With Cardiac Comfort Chair

WIDTH EXPANDS FROM 36" – 42" – 48"

MODEL #DLX600-CLS

IMPORTANT: CHECK THE LABEL ON THE BED FRAME FOR THE CORRESPONDING MODEL NUMBER

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Introduction & Product Features

The **MEDACURE DELUXE EXPANDABLE BARIATRIC LOW BED** is a fully electric, versatile solution designed for Long-Term Care, Hospital, and Home Care settings. Built for flexibility, the bed expands in width (36" to 48") and length (80" to 88"), making it ideal for standard, bariatric, and tall patients.

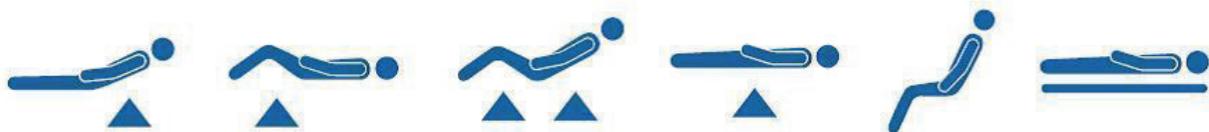
With a low height of just 7 inches and five adjustable patient positions, it delivers both comfort and enhanced quality of care. Powered by four advanced motors, the bed supports up to 600 lbs and offers smooth, reliable operation. It comes standard with a patient remote control, with an optional nurse control panel conveniently located on the footboard.

Engineered for durability, the bed features all-steel construction, removable head and footboards, and is certified as a Class II Medical Device. Both the plug and motors are IP43 rated for added safety.

The **DLX600** combines strength, multi-functionality, and style with an attractive, upscale design that enhances the look of any care environment.

5 FUNCTION ELECTRIC BED

Head Up and Down, Foot Up and Down, Auto Contour, Hi/Lo, One-button Cardiac Chair (Comfort Position) and Flat Exam/Bed Exit Position



Expandable width from 36" – 42" – 48" | Adjusts for both Standard and Bariatric Patients

PRODUCT FEATURES

- Patient remote hand control for all 5 positions (standard)
- Travel Range: High: 30" / Low: 7"
- Adjustable/expandable mattress deck length from 80" to 84"
- Mattress keepers – keeps mattress from sliding
- Bed includes 8 bedside mattress retainers
- 8 x 3" casters: 2 pcs. swivel & 2 pcs. locking casters & 4pcs. casters with central locking system
- 2 guide wheel devices beside two of the casters at the bed head part
- IV pole mount on the 2 head corners of the bed frame
- Trapeze bracket mount on 2 head corners
- Durable rectangle tube bed deck
- Interchangeable head/foot boards
- Durable 1-piece reinforced steel frame
- Each Bed includes 1 bumper bar on the head of the bed
- Each Bed includes 1 Night light under the bed deck
- Each Bed includes 2 USB charging cables on each side of the bed
- QBar patient assist bar is optional
- Half Rail and Soft Half Rail are optional
- Battery backup is optional
- Lifting pole and IV pole are optional

Parts List & Description

IMPORTANT: Read this manual completely before setting up or operating this system and keep in a safe place for future reference. To avoid injury and for maximum safety, this system should only be installed by an authorized technician or dealer representative.

Electric bed installation parts listed below as per Figure # 1

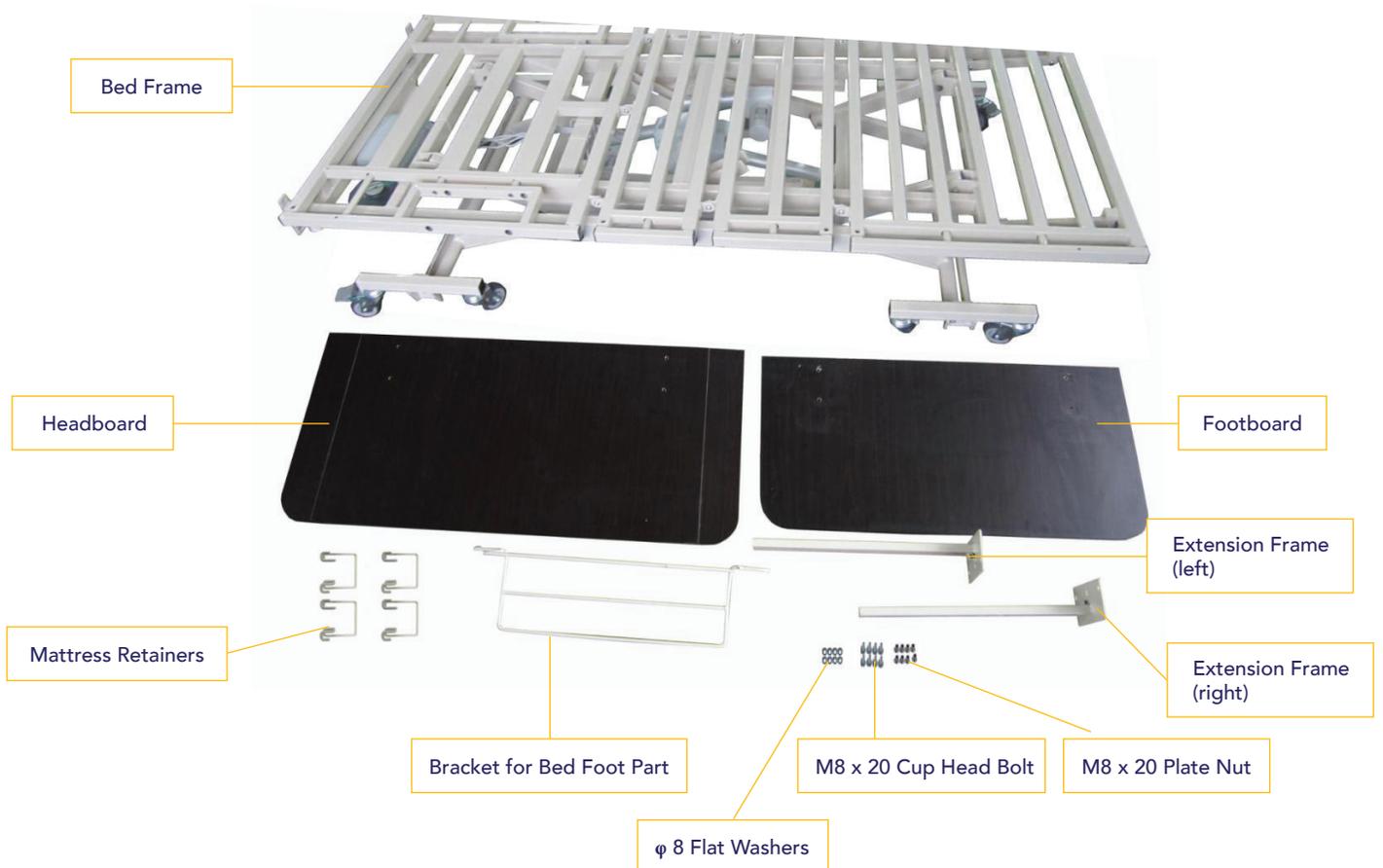


FIGURE #1

Assembly & Operation

1. INSTALLING THE LIFTING FRAME

Remove the $\phi 13.5$ bolt from the lifting frame (1). Place a $\phi 14$ plastic washer between the lifting frame (1) and lifting frame (2), matching the bolt holes on both lifting frames. Fasten with a $\phi 12.5$ bolt with cotter pin as per Figure # 2. Use 4 bolts to connect the lifting frames.



FIGURE #2

2. INSTALLING HEIGHT ADJUSTMENT MOTOR

Match the installation holes on height adjustment motor and motor base and fasten by $\phi 10$ bolt with latch as per Figure # 3. Before attaching the bolt, first attach a $\phi 10$ plastic washer to the bolt. Install the two height adjustment motors one by one.



FIGURE #3

3. INSTALLING THE LENGTH EXTENSION FRAME

3.1 Insert extension frame (left) & extension frame (right) into the 60 x 30 mm rectangular bed frame tube. See Figure # 4.

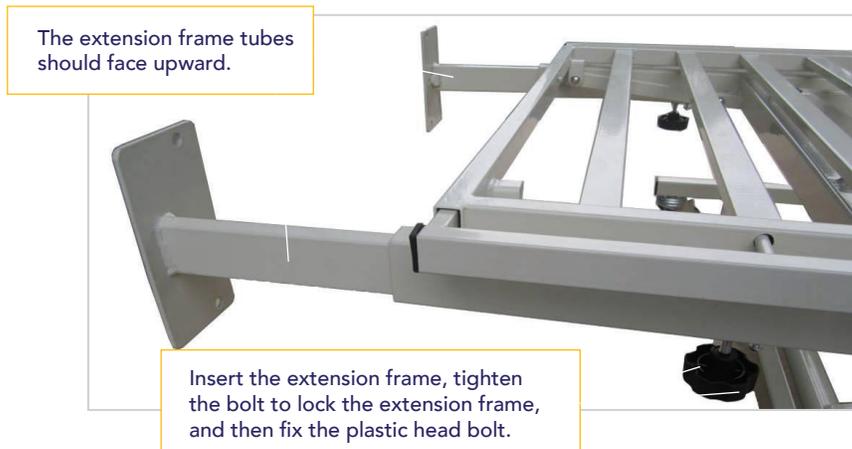


FIGURE #4

3.2 Install bracket for bed foot part as per Figure # 5.



IMPORTANT: The bed extension is designed for use as a bed extension only and is not meant to support the body weight of a person sitting. The extra length of the bed with extra load can also make the bed unstable potentially resulting in injury to the user and patient.

FIGURE #5

Assembly & Operation

4. INSTALLING HEAD AND FOOT BOARDS

4.1 Press the M8 × 18 plate nut into the bed board holes, as per Figure # 6.



FIGURE #6

4.2.1 Match the bed headboard with the bed frame installation holes. Fasten by M8 X 20 cup head bolt with ϕ 8 flat washer, as per Figure # 7.



FIGURE #7

4.2.1 Foldable bed headboard installation as noted figure #7.1.



Unfolded Position



Folded Position

FIGURE #7.1

Assembly & Operation

4.3 Match the bed foot board with the extension frame installation holes. Fasten by M8 X 20 cup head bolt with ϕ 8 flat washer. Bed foot board can be installed in both the high and low level position. See Figure # 8 & Figure # 9.



FIGURE #8

Bed foot board in low-level installation position

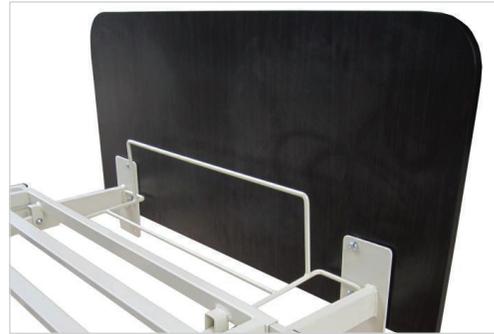


FIGURE #9

Bed foot board in high-level installation position

4.4 Install the bed to the bed head frame, and bed foot board to the bed foot frame. See Figure # 10.



FIGURE #10

5. CASTERS

5.1 There are 2 pcs. locking casters and 6 pcs. swivel casters per set. Step on the locking pedal (lower) to activate the locking position and step on the unlocking pedal (upper) to deactivate the locking system. See Figure # 11A & 11B.



FIGURE #11A
Unlocked Position



FIGURE #11A
Locked Position

Assembly & Operation

5.2 There are two guide wheel devices beside two of the casters at the bed head part.

Put down the guide wheel device to activate the guiding function to the caster; See Figure # 12A.

Retract the guide wheel device to deactivate the guiding function to the caster. See Figure # 12B.



FIGURE #12A

Activate the guiding function to the caster



Guide wheel device

FIGURE #12B

Deactivate the guiding function to the caster

5.3 4pcs. casters with central locking system on the foot position for locking in place. (On all bed models with 'CLS' in the bed model #). Step on the locking pedal (red) to activate the locking position and step on the unlocking pedal (green) to deactivate the locking system. See Figure #13.



Step on the red pedal to lock the caster

FIGURE #13

Step on the green pedal to unlock the caster

6. OPERATION FOR BED SURFACE EXTENSION FRAME

6.1 First, loosen the "Locking Bolt". Then, pull the "Pulling Button" with one hand and pull out the extension frame until it clicks into your desired location hole (see 6.2 below). Tighten the "Locking Bolt" to lock the extension frame in place. See figure # 14.



FIGURE #14

6.2 IMPORTANT NOTE: There are 3 location holes on each extension frame for 3 width adjustment settings - 36", 42" and 48" widths. There are 4 separate extension frames on each side of the main frame. Repeat the above method in 6.1 to achieve the desired width and then tighten the "Locking Bolt" to lock the extension frame in place. See Figure # 15.

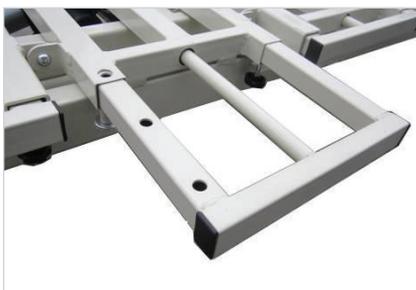


FIGURE #15

7. BED FOOT LENGTH EXTENSION FRAME

Loosen the screw on the bed frame and pull out the extension frame. Tighten the screw until the ideal length is selected, as per Figure # 16.



FIGURE #16

8. MATTRESS RETAINER INSTALLATION

Hang the mattress retainer onto the tube as noted in Figure # 16.1.



FIGURE #16.1

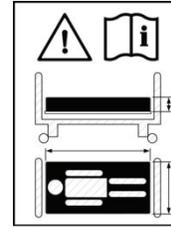
Assembly & Operation

9. MATTRESS

Mattress reference dimensions:

36"	Length: 80"/88"	Width: 36"	Thickness: ≤6"
42"	Length: 80"/88"	Width: 42"	Thickness: ≤6"
48"	Length: 80"/88"	Width: 48"	Thickness: ≤6"

Note: Please contact your dealer or authorized representative for details.



⚠ WARNING:
Incompatible
mattresses can
create hazards.
Read instructions
for use.

10. BUMPER BAR INSTALLATION

Insert the two ends of the bumper bar into the two holes on the tube (see figures 15 and 16).



FIGURE #16.2



FIGURE #16.3

11. SIDE RAILS - INSTALLATION & OPERATION

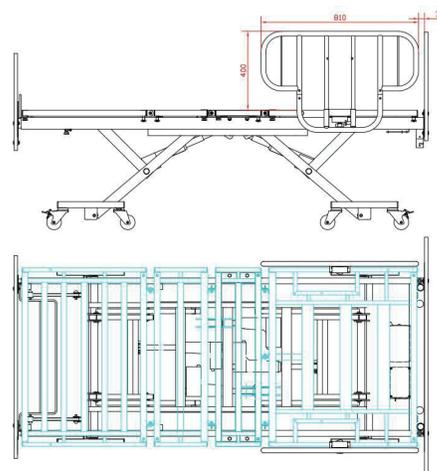
⚠ WARNING: After changing the position of the siderails, tug on them slightly to ensure that they are securely locked in place.

11.1.1 Loosen the screw on the side rail mounting base. Clip the mounting base with the 60 x 30mm rectangular bed frame tube and tighten the screw when you finish adjusting the position. See Figure # 17.



Screw (Locking torque: 2Nm)

FIGURE #17



Assembly & Operation

11.1.2 To raise the side rails - Pull up until the rail clicks in place. To lower the side rails - release the pulling button.

11.2.1 Loosen the screw on the side rail mounting base. Clip the mounting base with the 60 x 30mm rectangular bed frame tube and tighten the screw when you finish adjusting the position. See Figure # 18.

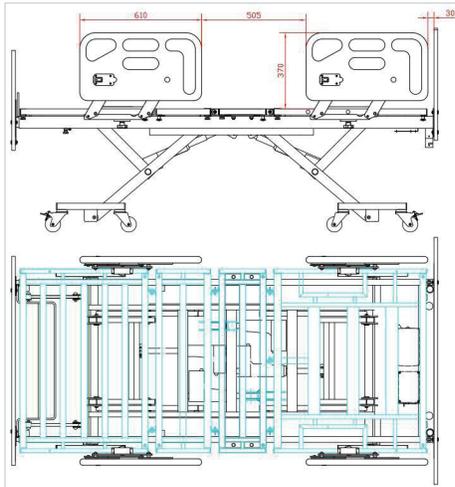


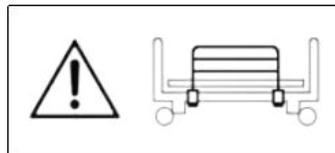
FIGURE #18

11.2.2 11.2.2 To raise the side rails - Pull up until the rail clicks in place. To lower the side rails - release the pulling button.

⚠ WARNING:

Incompatible side rails can create hazards.

Read instructions for use.



IMPORTANT NOTE: Siderails are not intended to be used as restraint devices. Medical personnel should determine the appropriate use of side rails and ensure patient safety.

IMPORTANT NOTE: Improper installation of side rail can lead to patients' entrapment. Please follow the size marked in Figure # 17 & 18 to install side rail. The patient's entrapment may be referred to clause 9 of IEC 60601-2-52 or the FDA official website.

IMPORTANT NOTE: Although the side rails have been designed to reduce the risk of patient entanglement, the potential exists, particularly with patients who are agitated or disoriented as well as patients who lack the physical strength to extract themselves if they become entangled. Caregivers should carefully evaluate the need for side rails and periodically check patients in accordance with facility protocols for safe positioning.

12. ASSIST BAR INSTALLATION

12.1 QBAR Assist Bar

Loosen the screw on the assist bar mounting base. Clip the mounting base onto the rectangular tube of bed surface frame (assist bar installation position marks on the tube see Figure # 19). Adjust well and tighten the screw.

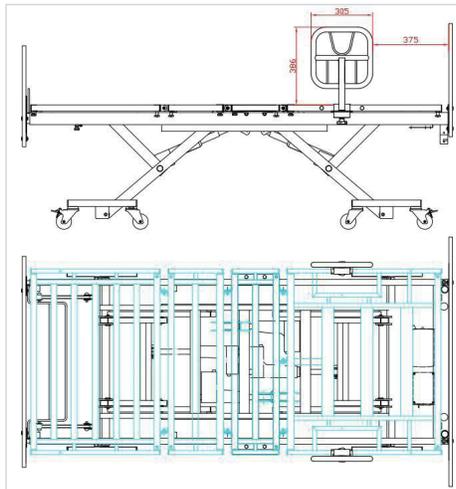
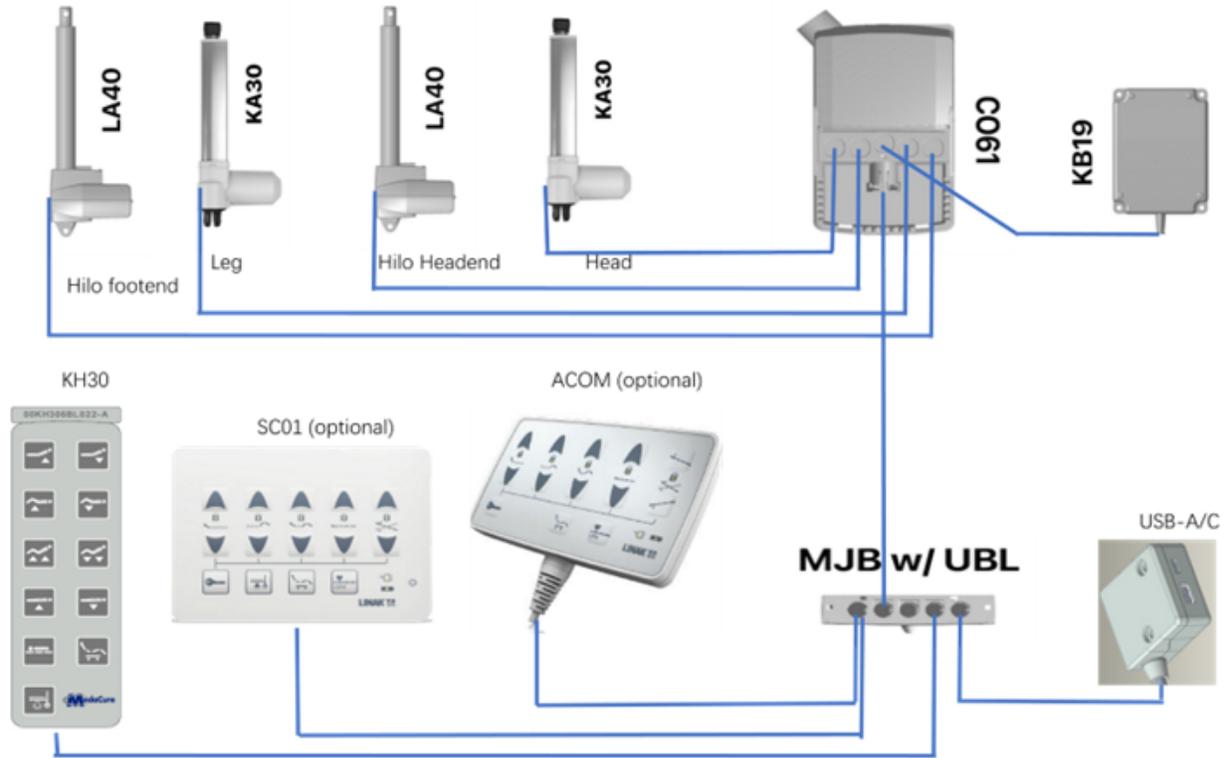


FIGURE #20

PLEASE NOTE: Assist bars are only used to assist patients transferring in and out of bed. Providing additional assistance for patients with limited mobility when while sitting or rising from the edge of the bed. The assist bars cannot be used as side rails, or it will cause a fall hazard.

PLEASE NOTE: Incorrect installation and positioning of the assist bar will cause entrapment hazard, please follow the size marked in the instruction manual to install assist bar. The patient's entrapment may be referred to in clause 9 of IEC 60601-2-52 or the FDA official website.

13. MOTOR SYSTEM



The motor components are connected according to the requirements of the system diagram, and turn on the power after checking.

NOTE: Abnormality may occur in the motor system when parts of the motor system are replaced or when the cables between the motor, hand controller and control box are disconnected and reconnected.

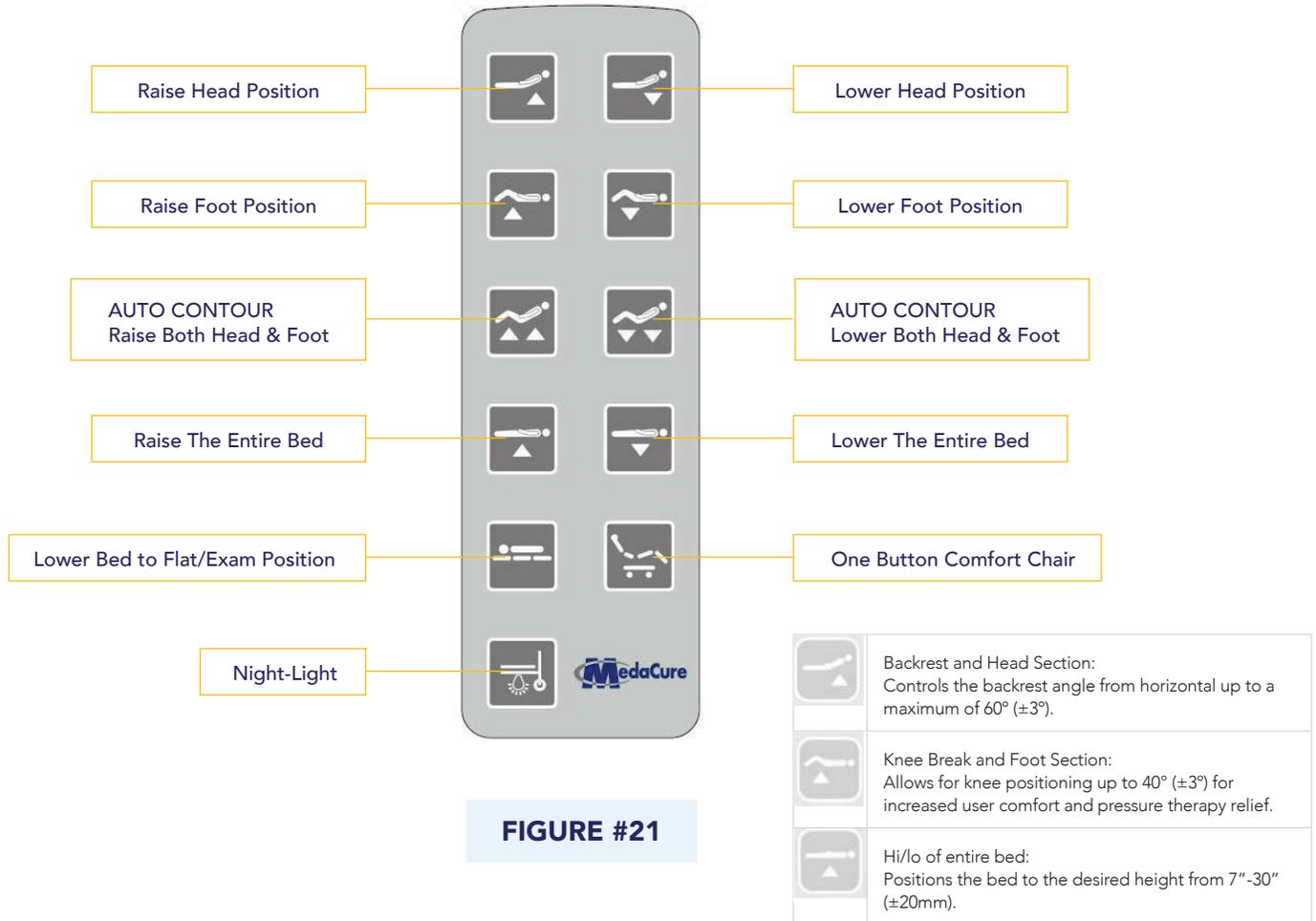
If the motor system is abnormal, it will buzz and alarm when you press the button of the hand control.

To eliminate abnormality: long press both the  +  buttons for more than 10 seconds at the same time and then press the head down  button to lower the head motor to the lowest position. Press the foot up  button to raise the foot motor to the highest position, and then press the hi/lo down  button to lower the main lift motor to the lowest position. The buzzer of the motor system will disappear, and the alarm will be released and the system will revert back to normal.

14. PATIENT HAND PENDANT - OPERATION

Ensure the power cord is connected. The patient can easily control all functions by using the hand pendant. This includes adjusting the entire bed height, raising & lowering the head & foot areas. Press the selected button until you reach the ideal position - see figure # 21.

NOTE: The operation of the medical bed can be stopped by unplugging the power plug.



Assembly & Operation

15. BATTERY BACKUP IS OPTIONAL

On select bed models, the motor has a backup battery that will operate all functions in case of a power outage. The motor includes 24V 4A rechargeable batteries. The battery lifetime is 2- 4 years depending on usage. Replace the battery when the functions no longer operate well in battery mode (and plug is disconnected). To replace the battery, unscrew the 4 screws on the control box and pull out the wires connected to the batteries. Remove the battery and replace it with new rechargeable batteries. Connect the wire to the new batteries (see figure 22).

If the bed is not used for a long time (more than 1 month), it is recommended to recharge the batteries. Plug in the AC wire of the bed to recharge the battery for 8-10 hours one time each month.

To obtain new replacement batteries or other bed parts, please contact a Medacure authorized dealer with bed model number and part description. The bed model # and description can be found on the side of the bed frame.



FIGURE #22

16. LIFTING POLE AND IV POLE ARE OPTIONAL

There are two (2) lifting pole sockets and two (2) IV pole sockets on the head part of the bed frame. See figure 23.



Storage & Movement

HANDLE WITH CARE

THE DELUXE EXPANDABLE BED should be stored in a clean, dry, well ventilated area. Do not drop and avoid shock or violent impact when transporting.diagonal opposing corner.

The following limits apply during storage:

Ambient Temperature	-10°C ~ 40°C
Relative Humidity	≤ 80%
Air Pressure	66 kPa ~ 106 kPa

The following limits apply to normal operating conditions:

Ambient Temperature	5°C ~ 40°C
Relative Humidity	≤ 80%
Air Pressure	86 kPa ~ 106 kPa

Cleaning & Disinfection

⚠ WARNING: Before cleaning, always disconnect the bed from the mains power source.

1. Cleaning Process

- Not suitable for automatic washing systems or jet stream.
- The bed can be washed using neutral soapy water mild detergent (or the facilities recommended cleaning solution).
- After thoroughly cleaned and dried, the shaft parts should be lubricated with grease.
- Allow the cleaned parts to dry before replacing the mattress

2. Disinfection Process

- Under normal circumstances, the user only needs to clean the bed surface daily. Most of the microorganisms can be removed by wiping the bed surface once a day with a clean wet cloth.
- When the bed surface is contaminated by pathogens, it must be strictly sterilized by wiping with 250mg/l-500mg/l chlorine disinfectant.

NOTE: It is strongly recommended that protective clothing be used when disinfection.

Maintenance

To prolong the working life of the bed and for trouble-free operation it is recommended that routine inspections should be performed by a person who is suitably qualified and well acquainted with the design, use or care of your Lincoln Expandable Bed.

If inspection reveals that the safety of the bed is jeopardized in any way, it should be IMMEDIATELY WITHDRAWN FROM SERVICE, tagged as such and the owner notified.

NOTE: Perform periodical inspection and maintenance to ensure the bed keeps operating in a safe condition. Quarterly check and maintenance are recommended. Once problem has occurred, consult the professional maintenance personnel for inspection and repairs.

NOTE: Other than general maintenance activities all other service or repair work must be performed by qualified and trained personnel.

⚠ WARNING: The bed must be disconnected from the mains power supply before starting any maintenance activity.

A. Check electrical components

- Check to ensure the hand control works properly.
- Examine flexible cables and conduits for cuts, cracks, abrasions or other deterioration.
- Check that the power supply plug is not damaged. If either the power cable or plug is damaged, then both the cable and plug must be replaced as a complete assembly by an approved service agent.
- Routinely check the electrical power cords for proper grounding.

B. Check Construction

- Examine all the warning signs on the bed
- Check the welding parts.
- Check that all nuts, bolts and other fasteners are tight and are not missing.
- Check the mechanical parts for proper and flexible operation, including the hinge connection and hilo movement of the bed decks, operation of the side rails, castors and hi-lo system. Lubricate these mechanical parts with HJ-(20-30) oil.
- Check the performance of the lockout controls.
- Check to ensure the normal operation of the motors.

C. Product Life

- Under normal use, the back section, knee section and the whole bed can be adjusted up and down in 5 years with the maximum load.
- The equipment and accessories are to be disposed of according to local regulations after their service lives. Alternatively, they can be returned to the dealer or the supplier for recycling or proper disposal.

D. Manufacture Date

- Refer to the product label.

IMPORTANT NOTE: After any adjustments, repair or service and before use, make sure all attaching hardware is tightened securely.

Symbols Used In This Manual

This product comes with the symbols, icons and safety notes, indicating the following meaning:

	Class II Equipment
	Caution
	Operating Instructions
	Type B Applied Part
	General Warning Sign
IPX4	The degree of protection against harmful ingress of water and particulate matter
	Maximum patient weight: The recommended maximum user weight is 212 kg, which conservatively considers common accessories used with beds such as mattresses, assist bars and side rails.
	Safe working load: This weight represents the total maximum weight that the bed can carry, including patient, mattress, bedding, bed ends and accessories. This weight (272 kg) should not be exceeded at any time.
	Marking of Replacement Mattresses
	Marking of Detachable Side Rails

Safety Precautions

⚠ CAUTION: The bed should be kept away from equipment or devices that generate strong electromagnetic or other interference. Electronic equipment may be 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 RFI causes erratic behavior, unplug the electric bed immediately. Leave unplugged while transmission is in progress.

⚠ WARNING 1: This product should be placed so that the power can be easily disconnected.

⚠ WARNING 2: Improper handling of power cord can cause danger, such as kinking, shearing or other mechanical damage.

⚠ WARNING 3: When cables from other equipment are arranged in the medical bed, preventive measures should be taken to avoid being squeezed by the components of the medical bed.

⚠ WARNING 4: Do not carry out repairs and maintenance during use. When it is used by patients, servicing or maintenance is strictly prohibited.

⚠ WARNING 5: When it is used by patients, servicing or maintenance is strictly prohibited.

⚠ WARNING 6: The medical bed should be left in its lowest position when the patient is unattended in order to reduce risk of injury due to falls.

⚠ WARNING 7: ALWAYS ensure that attendant and patient limbs are free from potential entrapment areas before operating any functions.

⚠ WARNING 8: If a patient, for example, loses sense of direction due to drugs or clinical conditions, he may be stuck when unattended. To avoid injury the bed should always be placed in flat position (unless the medical personnel has other requirements for special use).

⚠ WARNING 9: Do not modify this equipment without authorization of the manufacturer.