



# OPERATION AND MAINTENANCE MANUAL

Alterra MAXX Long Term Care Bed



This product is not made with natural rubber latex.

Packaging / Handling Instructions see Page 8.

FCEALTMAXX

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# ENTRAPMENT

## **WARNING: REDUCING THE RISK OF ENTRAPMENT**

Proper patient assessment and monitoring, along with proper maintenance and use of the hospital bed system is required to reduce the risk of entrapment. The term “hospital bed system” encompasses the bed frame and its components, including the mattress, side rails, head and footboards and accessories to the bed. Variations in bed rail dimensions and mattress thickness, size and/or density could increase the risk of entrapment.

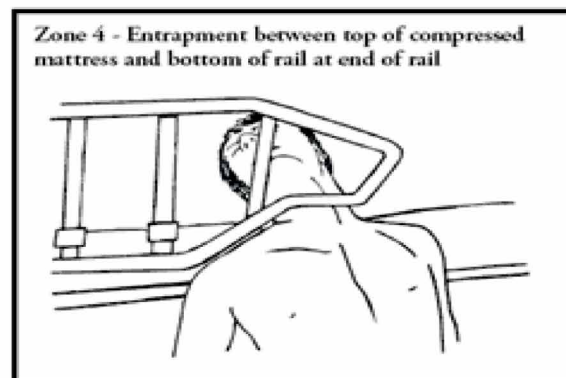
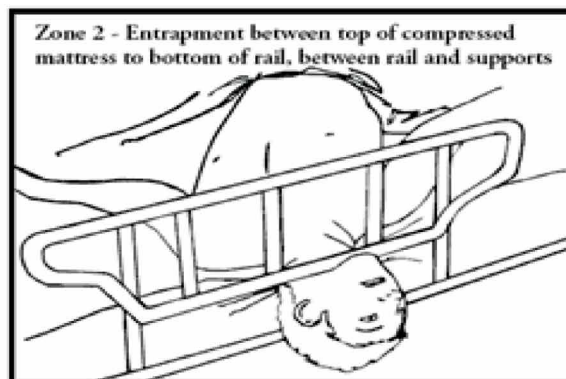
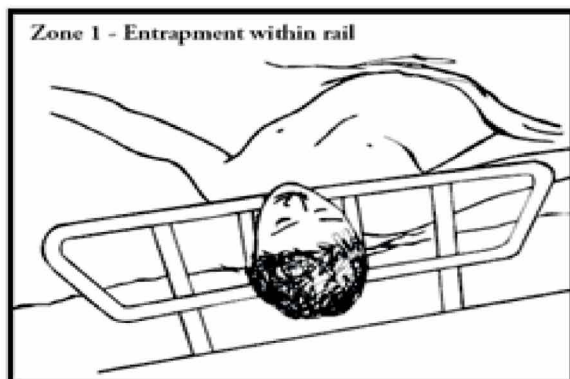
The FDA and The Hospital Bed Safety Workgroup (HBSW) have developed written guidance that outlines specific potential entrapment zones in hospital bed systems, “Hospital Bed System Dimensional and Assessment Guidance to Reduce Entrapment”. The entrapment zones represent the relationship of the various bed system components which are under the control of the bed user and the healthcare facility. Compliance to the FDA guidelines to reduce entrapment risk is ultimately the responsibility of the bed user and the healthcare facility. It is strongly recommended that all personnel involved with hospital bed system maintenance, service or use, should understand the FDA Guidelines. Visit the FDA website at <http://www.fda.gov> to acquire a copy of the guidelines and learn about the risks of entrapment.

The Medline FCEALTMAXX bed system and corresponding rails (FCE1232RSR, FCE1232RSRN, FCE1232RSRXT, FCEQRSIDE and FCE1232ABN) meet or exceed the FDA guidelines and are in accordance with this document for recommended Zones 1-4 when used with Medline brand mattresses.

The FDA guidance document also recognizes potential entrapment Zone 6, the area between the head or foot board and the side rail, but has not yet determined proper dimensions or requirements for safety in this zone. The document references standard IEC60601-2-38 as a source for measurements in this area, but the FDA has not completed harmonization with the measurements in this IEC document. The Medline side rails listed above does meet the dimensional requirements for the Zone 6 area that are defined by IEC60601.

# SUMMARY OF FDA'S DIMENSIONAL RECOMMENDATIONS

Key zones of the bed	Dimensions
Gaps within the rail ( <b>Zone 1</b> )	<120 mm (< 4 3/4 ")
Under the rail, between rail supports or next to a single rail support ( <b>Zone 2</b> )	< 120 mm (< 4 3/4 ")
Between rail and mattress ( <b>Zone 3</b> )	<120 mm (< 4 3/4 ")
Under the rail, at the ends of the rail ( <b>Zone 4</b> )	<60 mm (< 2 3/8 ") AND >60° angle



# SPECIAL NOTES AND WARNINGS

**WARNINGS/CAUTION NOTICE** in this manual applies to hazards or unsafe practices which could result in personal injury and/or property damage.

## NOTICE

The information in this document is subject to change without notice. Check all parts for shipping damage and test before using. **DO NOT USE IF DAMAGED.** Contact Medline Industries Inc. Customer Service (1-800-MEDLINE) and the freight carrier for further instruction.

Technical information regarding the bed will be available upon request. This bed has been tested and inspected prior to shipment.

## CAUTION

**DO NOT OPERATE THIS BED WITHOUT FIRST READING AND UNDERSTANDING THIS MANUAL. IF YOU ARE UNABLE TO UNDERSTAND THE WARNINGS, CAUTIONS AND INSTRUCTIONS, CONTACT YOUR MEDLINE SALES REP OR MEDLINE CUSTOMER SERVICE BEFORE USING THIS EQUIPMENT OTHERWISE INJURY OR DAMAGE MAY RESULT.**

- **DO NOT** use near explosive/flammable gases
- Possible fire hazard when used with oxygen administering equipment other than nasal or masked types.
- When administering oxygen with nasal or mask equipment, oxygen or air tubing **MUST** be routed and secured properly to ensure tubing does not become entangled, pinched or severed during operation of bed.
- Close supervision is necessary when this product is used by or near **CHILDREN OR PEOPLE WITH DISABILITIES.**
- **NEVER PERMIT ANYONE UNDER THE BED AT ANYTIME.**
- When operating or moving the bed, **ALWAYS** ensure the individual in the bed is positioned properly within the confines of the bed.
- **DO NOT** allow extremities to protrude over the side of the or between the rails when performing the bed functions.
- **DO NOT** move the bed while it is still plugged into the wall.
- **DO NOT** use the bed for anything other than its intended use.
- **USE** Extreme caution when using any functions of the bed near IV Poles or any other furniture.

## SAVE THESE INSTRUCTIONS

**SERVICE/MAINTENANCE PERSONNEL:** The bed is a heavy piece of equipment. It is strongly recommended that any servicing or maintenance of the bed be performed by two or more personnel.

# SAFETY SUMMARY AND OPERATING INFORMATION

- After installation and before use, ensure all attached hardware is securely tightened
- Hand pendant cord must be routed and secured properly to ensure cord does not become entangled, pinched, or severed during normal bed operation.
- Keep all moving parts free from obstruction (i.e. blankets/sheets, heating blankets/pads, tubing, wiring, etc.) or with any other products that use electric cords which could get tangled around the bed, side rails or legs during operation of bed.
- The Alterra MAXX bed is equipped with **TWO** brake locks; one on the head end of the bed and one on the foot end. To operate the brake locks, press down on the red pedal from either side of the bed. To unlock, press the green foot pedal from either side of the bed. **ALWAYS** use the brake locks **EXCEPT** when moving the bed. Pads can be adjusted by rotating them clockwise or counter-clockwise to ensure proper contact with floor.
- The side rails are **NOT** intended to be used as a patient restraint. If necessary, a physician or healthcare professional should be consulted for other means of safe restraint.
- Be sure to fully lock side rails / assist bars in the fully up or down position. Failure to lock the accessories may result in unintentional movement and injury to patient or caregiver.
- When using side rails, excessive side pressure can cause the rails to deform or break. **DO NOT USE** side rails as handles to move the bed.
- **NEVER** permit more than 1 person in or on bed at any time. The safe working load for this bed is rated at 600-lbs.
- Body weight should be evenly distributed over the surface of the bed.
- A person **SHOULD NOT** lay, sit or lean in such a way that his or her entire body weight is placed only on the **RAISED** head or foot sections of the bed. This includes **ASSISTING** the user in repositioning or transferring in or out of bed.
- **DO NOT ALTER THE PLUG ON THE ELECTRICAL CORD.** If the plug does not fit the existing outlet, a correct outlet should be installed by a licensed electrician. NEVER operate the unit if it has a damaged cord or plug.
- **UNPLUG** the power cord when performing any maintenance (including cleaning) on the bed.
- **DO NOT** open or disassemble any factory sealed electronics. If these units are opened, the warranty is void.
- **DO NOT** permit excessive prolong activation of the bed's electrical function (duty cycle). Exceeding the rated duty cycle of the electronics may cause damage or failure of bed function.

(Duty Cycle = 10%: 2min on; 18min off)

- If all four bed casters are not locked, bed movement may occur with little or no resistance. Always activate caster locks during patient transfer (patient movement in or out of the bed) or use of the bed brake locks on the head and foot ends.
- The bed is intended for indoor use only.
- **DO NOT** cover the bed's power cord with rugs, carpet, etc.



- Inspect the bed for damage and normal operation periodically. Report any damage, abnormal operation, unusual noise or odor immediately to the maintenance department and discontinue use of the bed.

## SPECIFICATIONS

Bed Deck Length	Adjustable from 80" to 88"
Bed Deck Width	Adjustable from 36" to 42"
Overall Width (Including Side Rails)	41" – 47" depending on width selected & side rails mounted
Overall Length with Foot Lock Extended	92"
Overall length with Foot Lock Retracted	88-1/2"
Minimum Bed Deck Height	7-3/4"
Maximum Bed Deck Height	30-1/4"
Maximum Safe Working Load*	600-LBS
Maximum Back Angle	70-Degrees +/-3
Maximum Knee Angle	28-Degrees +/-3
Trendelenburg/Reverse Trendelenburg Angle	10-Degrees +/-2

Bed Electronics Comply with IEC60601-2 EMC requirements

\* This includes weight of the resident/patient and all other accessories including but not limited to mattresses, head/foot boards, side rails, etc.

## ELECTRICAL SPECIFICATIONS

Power: 120 V.A.C., 2A, 60HZ

Duty Cycle: 10% Max. (2 min. on./18 min off)

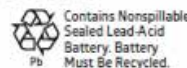
## LOCATING THE SERIAL NUMBER



**ALTERRA MAXX FULL ELECTRIC HI-LOW BED**  
**LIT ENTIÈREMENT ÉLECTRIQUE À**  
**HAUTEUR VARIABLE ALTERRA MAXX**  
**CAMA RECLINABLE COMPLETAMENTE ELÉCTRICA ALTERRA MAXX**

www.medline.com  
 Manufactured in China for/Fabriqu  en Chine pour/Fabricado en China para: Medline Industries, Inc.,  
 Northfield, IL 60093 USA 1-800-MEDLINE RJ16GHO  
 GTIN (01): 10888277651838

REF FCEALTMAXX



- The serial number label is located on the center of the left side bed frame.
- Please have the serial number and model number of the bed available when calling Medline Customer Service for parts and/or troubleshooting.

# PACKAGING/HANDLING

## RECEIVING

It is imperative that all shipments are inspected within 5 days in order to make a freight claim for any concealed damage.

1. Count cartons before signing shipping papers.
2. Compare the number of cartons shipped with the number actually received.
3. Visually inspect all cartons for any damage.
4. If number of packages shipped and received do not match up or if there is any damage to carton, note on freight bill and have driver sign acknowledging the claim and notify your Medline sales rep or Medline Customer Service (1-800-MEDLINE).

## UNPACKING

**CAUTION:** The bed is extremely heavy; unpack with two or more people.

1. Remove bands and top
2. With at least **TWO** people, remove the bed from the carton by lifting underlying and rotating frame of bed so the casters are facing down. Place it on level ground next to the carton.  
**\*\* If at this point, you discover concealed damage, immediately contact Medline Customer Service and take photographs to document the damage for the freight claim.**
3. Inspect plug and cord for any cuts or damage. If there isn't any damage, plug in the bed and elevate the bed deck to a comfortable working height.
4. Cut the cable ties only holding bed deck sections to the bed frame, being careful not to damage cords or cables. **DO NOT** cut all cable ties from the bed. Cable ties are needed to hold bed wiring in place.
5. Insert the wall guard into the head section H-frame using a rubber mallet if necessary. The wall guard includes C clips that allow you to extend the wall guard out and hold it in place. This allows for additional distance from the wall.

Wall Guard Fully Inserted



Wall Guard Extended for added distance





## INSTALLING OPTIONAL HEAD AND FOOTBOARDS

Tools Required: Philips Screw Driver, Rubber Mallet

Materials Required: Head and Footboards

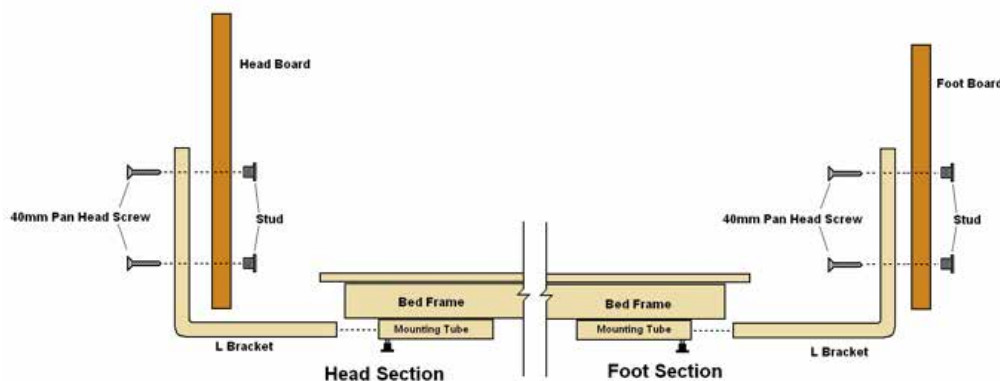
The FCEALTMAXX bed comes with the necessary hardware to mount head/footboards to the frame. When ordering head/footboards from Medline, they come with four pre-drilled mounting holes.

### HEADBOARD INSTALLATION

1. Locate and install screwcap inserts into each hole (this may require a rubber mallet). Use caution as to not damage the surface of the head/footboard. The surface with the screw inserts visible will be the inside of the headboard.
2. Position two L-brackets on the outside of the headboard with the “L” facing inwards.
3. Align both holes of the L-brackets with the top and bottom holes in the headboard.
4. Insert and hand tighten each 40mm pan-head screw through all four holes.
5. Slide the L-brackets into the mounting tubes on the head end of the bed. The bracket should rest in place with the snap buttons.
6. Fully tighten each mounting screw on the L brackets.
7. Tighten knobs under each mounting tube to provide additional support.

### FOOTBOARD INSTALLATION

1. Locate and install screw inserts into each hole (this may require a rubber mallet). Use caution as to not damage the surface of the footboard. The surface with the screw inserts visible will be the outside of the footboard.
2. Position two L-brackets on the inside of the footboard with “L” facing inward.
3. Align the both holes of the L-brackets with the top and bottom holes in the footboard.
4. Insert and hand tighten each 40mm pan-head screw through all four holes.
5. Slide the L-brackets into the mounting tubes on the foot end of the bed. The bracket should rest in place with the snap buttons.
6. Fully tighten each mounting screw on the L brackets.
7. Tighten knobs under each mounting tube to provide additional support.



# INSTALLING OPTIONAL ASSIST RAILS

Tools Required: Adjustable Pliers

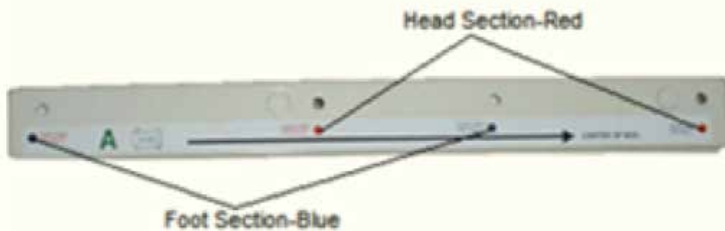
Materials Required: Assist Rails (FCE1232RSRN, FCE1232RSRXT, FCEQRSIDE, FCE1232ABN)

**⚠ CAUTION:** Follow the installation instructions carefully and check that all hardware/fasteners are properly installed and tight. Failure to do so may result in unexpected movement of the rails and could result in patient or caregiver injury

## FCE1232RSRN, FCE1232RSRXT, FCEQRSIDE, or FCE1232ABN

1. The side rail mounting rods come pre-installed on the head and foot sections of the Alterra MAXX bed.

**Caution! When assembling rail, make sure to use the correct mounting holes for rods. See color chart below.**

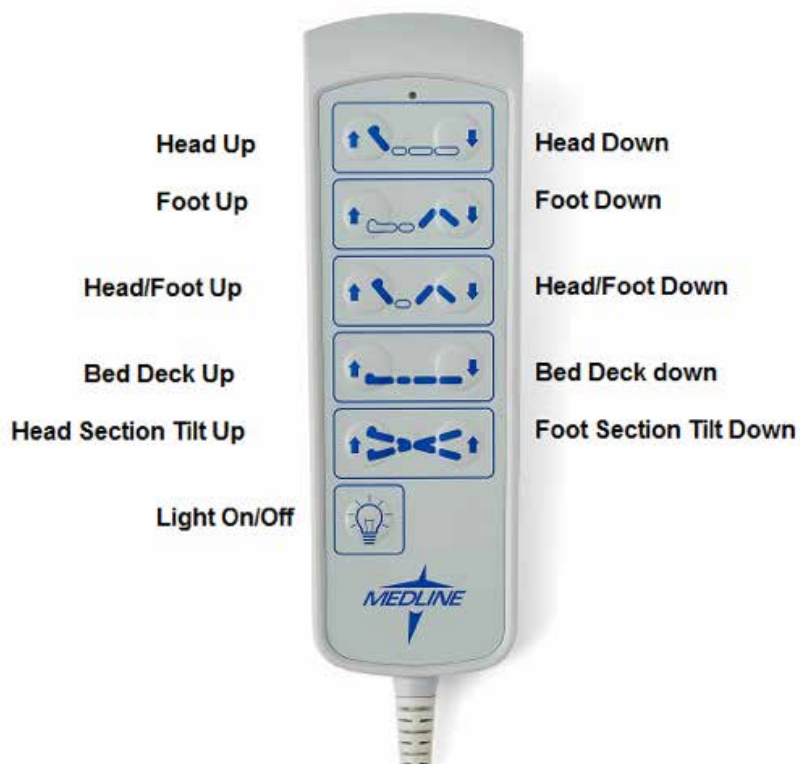


**Caution! Be sure to install rail on correct section of bed. Failure to do this could cause damage to product and/or possible injury.**

2. Tighten each mounting rod using a 5mm Allen wrench and a ½" open end wrench.

# BED OPERATION

Bed functions are operated with an 11-button (5-function) hand pendant. Button functions on the hand pendant are identified with universal icons. The hand pendant comes with a soft hook on the back side for suspending the control on assist rails or headboards.



The hand pendant can be plugged into either side of the bed. To properly connect the pendant, align the arrows on the bed's connection and the pendant plug; firmly press the two pieces together, then flip down the retaining lock.



**CAUTION:** Prior to raising or lowering the bed and/or assist rails, ensure that the cord for the hand pendant has not become entangled in bed parts. The cord should be kept clear of moving parts at all times.

The bed has a rolling base that allows it to be rolled or locked at any height. The Alterra MAXX bed is equipped with TWO brake locks; one on the head end of the bed and one on the foot end. To operate the brake locks, press down on the red pedal from either side of the bed. To unlock, press the green foot pedal from either side of the bed. ALWAYS use the brake locks EXCEPT when moving the bed. Pads can be adjusted by rotating them clockwise or counter-clockwise to ensure proper contact with floor. Secure the individual locking casters.



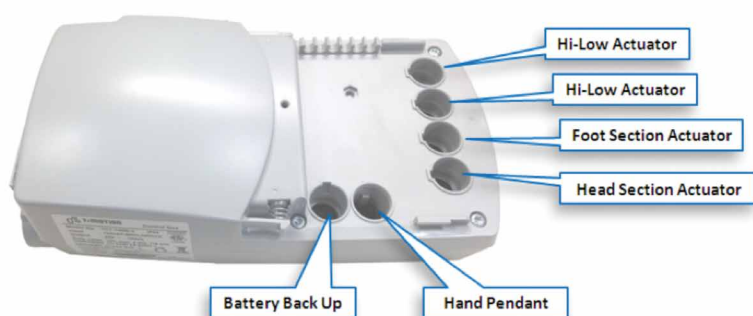
## **⚠ CAUTION**

If all four casters are not locked, swivel and wheel rotation will allow bed motion with little or no resistance. This can result in loss of balance, fall and personal injury. Ensure that all four casters are locked to avoid any bed movement during resident transfer and/or use. The central locking mechanism can be used for most situations where locking casters are needed. However, movement near the head section of the bed may still result if force is applied. The bed will be most secure if the head end casters are locked along with the central lock and/or foot end casters.

# **ELECTRONICS**

## **CONTROL BOX**

The picture below shows the various control box connections with actuators, hand pendant and battery backup.



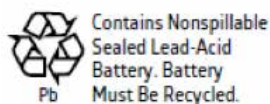
## BATTERY BACKUP

In the event of a power failure, the bed comes standard with a battery backup feature that enables the bed to be lowered without AC power. Keep the battery backup plugged into control box to ensure activation. Battery must be charged for a minimum of 12 hours prior to use.

The battery backup unit will recharge when AC power is reestablished.

### CAUTION

- Improper handling and/or exposure to heat could result in bodily injury.
- The battery back-up is a factory sealed unit. **DO NOT ATTEMPT** to open/repair unit.
- Contains sealed lead battery. Battery must be recycled.



## REPLACING BATTERY

Tools Required: Flat Head Screw Driver, T25 Torx Screw Driver

### CAUTION

Follow the installation instructions carefully and check that all hardware/fasteners are properly installed and tight.

1. Disconnect AC power
2. Remove the control box cover by using a flat head screw driver. Insert the screwdriver into the control box cover slot marked "INSERT TO OPEN". The control box cover should now slide away from the control box.
3. Unplug the battery backup cable from the control box. Please refer to page 13 for the battery backup cable location on the control box.
4. Cut and remove all cable (zip) ties holding the battery backup cable.
5. Using a T25 Torx screwdriver remove the all 4 mounting screws. Support the battery when removing the last screw. Use caution the battery backup weighs approximately 4 pounds.
6. Using a T25 Torx screwdriver install the new battery backup unit with all 4 mounting screws.
7. Carefully route the battery backup cable from the battery to the control box. Please make sure the cable does not get pinched or cut during normal bed operation.
8. Secure cable in place with zip-ties
9. Reconnect the battery backup cable into the control box port.
10. Replace the control box cover.
11. Reconnect AC power

## UNDER BED LIGHTING

The Alterra MAXX comes standard with LED lighting located under the center of the bed deck on both sides. The LED lighting can be turned on using the hand pendant. The LED lighting can assist with illuminating the surrounding areas of the bed when transitioning in/out of the bed.



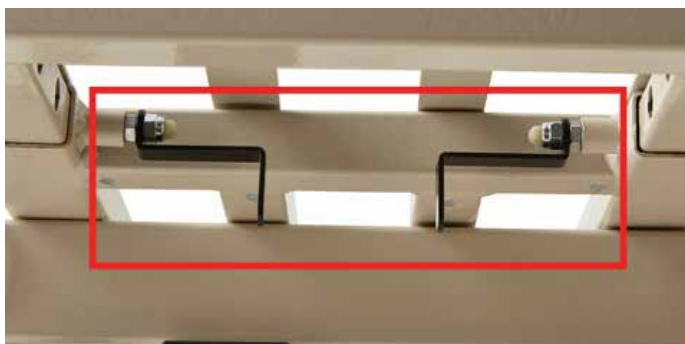
## BED DECK ADJUSTMENTS

The Alterra MAXX comes standard with integrated width and length adjustments to allow the bed to widen from 36" to 39" or 42", as well as lengthen from 80" to 84" or 88".

To adjust the width of the bed, compress the two black handles under the bed deck section, and pull the bed deck section to the desired width.

### **CAUTION**

Prior to putting the bed in use, ensure that each bed deck extension piece is locked in place and set to the same width in order to ensure for proper mattress support.



**CAUTION:** Do not make any adjustments while a person is in the bed.

To adjust the length of the bed, remove the mattress retainers from each corner of the bed end that you desire to lengthen (both head and foot ends can be lengthened). Gently pull down on the black knob and turn it  $\frac{1}{4}$  turn in either direction so that the knob lock is released. Repeat step for the other side of the bed end. Pull the bed deck out slightly and turn the black knobs  $\frac{1}{4}$  turn the opposite direction so that the knob lock will fall into place. Slowly pull the bed deck out until the knob locks fully engage into place. Re-insert the mattress retainers into each corner of the bed.



## CAUTION

Prior to putting the bed in use, ensure that each bed deck extension piece is locked in place.



## CASTER GUIDES

The Alterra MAXX is equipped with two swing down caster positioning guides located at the head end of the bed. The caster positioning guides will keep the casters straight when flipped down, to eliminate one swivel point and allow for ease of bed movement.



## HEAD SECTION KICKSTAND

The Alterra MAXX is equipped with a kickstand for holding up the head section of the bed for easy access to the power cord and bed control box.

NEVER use the kickstand while anyone is in the bed. The kickstand is used for Maintenance ONLY.

CAUTION: Make sure the kickstand is secure before reaching under the bed



# TROUBLESHOOTING

Symptom	Possible Cause		Remedy/Solution	
<b>None of the functions work</b>	Hand pendant?	Is hand pendant plugged in?	Plug in hand pendant	
		Did you try another pendant from working bed	Use different hand pendant from a working bed	
	Does the bed have staff control?	Are the lock-out functions engaged?	Disengage lock-out functions	
		Is the staff control wired to the control box properly?	Plug hand pendant directly into "HB" port of control box	
	Power?	Is the bed plugged into an outlet?	Plug bed into wall outlet	
		Is the power outlet on a switch?	Turn switch on, check fuse box, or try another wall outlet Verify bed power source (outlet) is adequate for bed electrical rating	
		Has the power cord become loose from the control box	Insert power cord fully into control box	
		Is the power cord damaged?	Replace power cord	
	<b>Functions work but bed moves slowly</b>	Power?	Is the bed plugged into an outlet?	Plug bed into wall outlet
			Is the power outlet on a switch?	Turn switch on, check fuse box, or try another wall outlet Verify bed power source (outlet) is adequate for bed electrical rating
Has the power cord become loose from the control box?			Insert power cord fully into control box	
Is the power cord damaged?			Replace power cord	
<b>Grinding noise heard from one of the actuators</b>	Actuator gear is stripped	Actuator gear is stripped, replace actuator	Replace actuator	

# TROUBLESHOOTING (CONTINUED)

Symptom	Possible Cause		Remedy/Solution
<b>One of the actuators is not functioning</b>	Hand pendant?	Try another pendant from working bed	Use a different hand pendant from a working bed
	Actuator?	Insert actuator cord into another working port of the control box	If bed still isn't functioning, replacing acuator
	Actuator cable?	Verify actuator cable is not damaged	If damaged, or Cut replace actuator cable
		Verify actuator cable plug is inserted completely in actuator and control box	Push actuator cable plug firmly into actuator/control box
	Control Box	Insert actuator cord into another working port on the control box	If actuator works on a different port of the control box Verify it is not a hand pendant issue Replace the control box
<b>Bed is not level when operating High-Low functions</b>		Bed load is not evenly distributed	Raise or lower bed to its maximum or minimum height
<b>Actuators operate but wrong movement occurs</b>	Control box wiring?	Actuators are plugged into the wrong ports	Plug actuators into proper ports on control box Replace control box

**IF USE OF THIS TROUBLE SHOOTING GUIDE DOES NOT CORRECT THE PROBLEM, PLEASE CALL MEDLINE TECHNICAL SUPPORT AT 1-800-MEDLINE.**

## CAUTION

SERVICE / MAINTENANCE PERSONNEL

The bed is a heavy piece of equipment. It is strongly recommended that any servicing or maintenance of the bed be performed by two or more personnel.

# ACTUATOR REPLACEMENT

## HEAD AND FOOT ACTUATORS

1. Unplug the bed from AC power.
2. Unplug the actuator cable.
3. Remove the clevis pin, cotter pin and spacers from both the motor and piston sides of the actuator.

**Attention:** Note the location of all bushings, washers, cable ties, wire routing and hardware for proper reassembly.

4. Install the new actuator at the motor end first then piston end, using the original clevis pin, cotter pin and any spacers that were removed in Step 3. Installing the motor end first will reduce possible damage to spindle and piston mechanism of the actuator.
5. Plug in the actuator cable.
6. Reconnect AC power.
7. Test the bed by raising and lowering the head and foot sections

## HIGH-LOW ACTUATORS

### CAUTION

- Remove ALL accessories mounted to the bed (assist rails, assist bars and head and footboards). Failure to do so could result in the bed being unstable causing injury.
- The bed must be turned on its side before replacing actuators. A minimum of two people are required to turn bed on its side.
- Fully elevate the bed deck and head section before turning the bed on its side to create a more stable work platform.

1. Remove all accessories mounted to the bed (assist rails, assist bars and head and footboards).
2. Elevate the bed to its highest position and raise the head and foot sections.
3. Unplug the bed from AC power.
4. With at least TWO people, carefully turn the bed on its side.
5. Remove the clevis pin, cotter pin and spacers from both the motor and piston sides of the actuator.

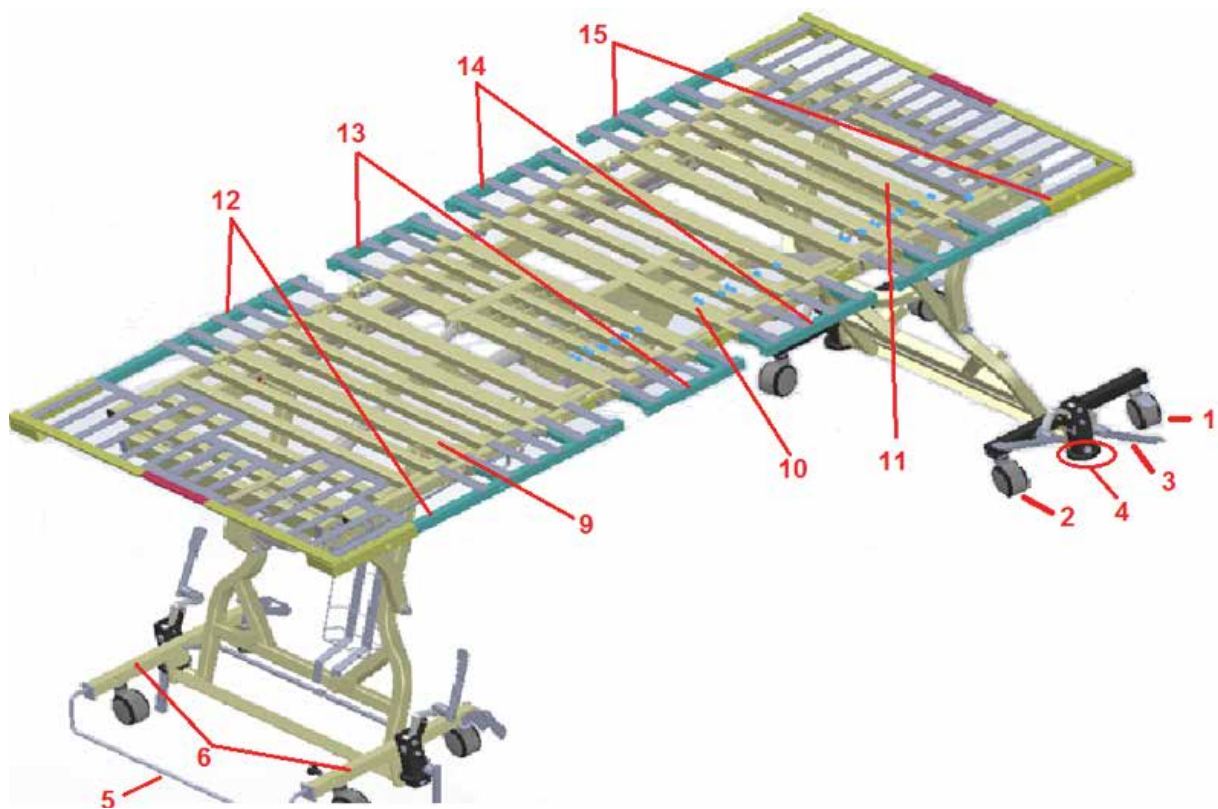
**Attention:** Note the location of all bushings, washers, cable ties, wire routing and hardware for proper reassembly.

8. Install the new actuator at the motor end first then piston end, using the original clevis pin, cotter pin and any spacers that were removed in Step 5. Installing the motor end first will reduce possible damage to spindle and piston mechanism of the actuator.
6. Plug in the actuator cable.
7. With at least TWO people, carefully return the bed to the upright position.
8. Reconnect AC power.

9. Re synchronize the self leveling hi low motors by lowering the bed to its lowest position and holding the elevation down button on the hand pendant an additional 5 seconds after the bed has reached its lowest elevation
10. Test the bed by raising and lowering elevation.

**NOTE:** When replacing head and foot actuators, special care needs to be taken to secure all wiring with cable ties as necessary to reduce strain from the actuator cables. Ensure that cable do not get caught on any moving parts.

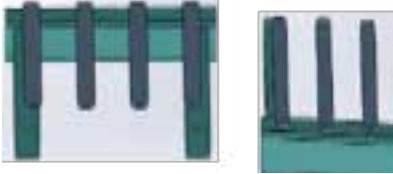









## BED SCHEMATIC





# REPLACEMENT PARTS

Indicator	Indicator/Image	Item #	Description	Qty/Unit of Measure
1		FCEMAXX01	Casters, Locking	4
2		FCEMAXX02	Casters, non-Locking	4
3		FCEMAXX03	Locking pedal	1
4		FCEMAXX04	Brake Pads	4
5		FCEMAXX05	Wall Guard	1
6		FCEMAXX06	Frame Assembly, Foot	1, includes the break mechanism & pedal
9		FCEMAXX09	Deck, Head	1
10		FCEMAXX10	Deck, Thigh	1
11		FCEMAXX11	Deck, Foot	1
12		FCEMAXX12	Extension Kit, Head Section	1 set (both sides) includes the width and length extension pieces
13		FCEMAXX13	Extension Kit, Seat Section	1 set (both sides) includes the width and length extension pieces

Indicator	Indicator/Image	Item #	Description	Qty/Unit of Measure
14		FCEMAXX14	Extension Kit, Thigh Sect	1 set (both sides) includes the width and length extension pieces
15		FCEMAXX15	Extension Kit, Foot Section	1 set (both sides) includes the width and length extension pieces
Not Shown		FCEMAXX16	Mounting Rods, Side Rail	8
Not Shown		FCEMAXX17	C-Clip, Mounting Rod	24
Not Shown		FCEMAXX18	Width extension release spring	16
Not Shown		FCEMAXX19	Length extension release knob	4
Not Shown		FCEMAXX20	Mounting Hardware for head/footboard, Head	4
Not Shown		FCEMAXX21	Tension knob for mounting hardware	1
Not Shown		FCEMAXX22	address Retainers	4
Not Shown		FCEMAXX23	Kickstand rod, Head Section	1

Indicator	Indicator/Image	Item #	Description	Qty/Unit of Measure
Not Shown		FCEMAXX24	Control Box	1
Not Shown		FCEMAXX25	Actuator, Head	1
Not Shown		FCEMAXX26	Actuator, Foot	1
Not Shown		FCEMAXX27	Actuator, Hi/ Low	2
Not Shown		FCEMAXX28	Battery Backup	1
Not Shown		FCEMAXX29	Lights, LED, Under bed	2
Not Shown		FCEMAXX30	Hand Pendant, 5 function	1
Not Shown	Not Shown	FCEMAXX31	Cord, Power	1
Not Shown		FCEMAXX32	T Cable	1
Not Shown		FCEMAXX36	Junction Box, Light	2
Optional		FCEMAXX37	Staff Control Kit	1

## ADDITIONAL ACCESSORIES

FCE1232RHFQ02	Traditional Style Head and Footboards, Solar Oak Finish
FCE1232RSR	Standard Assist Rails (Head Section Only)
FCE1232RSRN	Soft-Touch Assist Rails (Head or Foot Section)
FCE1232RSRXT	Extra-Tall Soft-Touch Assist Rails (Head or Foot Section)
FCEQRSIDE	Quick Release Soft-Touch Assist Rails
FCEQRHFB	Quick Release Head/Footboard mounting hardware
FCE1232ABN	Assist Bar
FCE1232TPZ	Trapeze Adapter Kit
MDS80615T	Trapeze Bar Assembly

## MAINTENANCE

### CAUTION: SERVICE / MAINTENANCE PERSONNEL

The bed is a heavy piece of equipment. It is strongly recommended that any servicing or maintenance of the bed be performed by two or more personnel.

The Maintenance Schedule on Page 22 of this manual can be copied and used as a procedural guide and documentation.

### CLEANING AND DISINFECTING THE BED

1. **WARNING:** Unplug the power cord before cleaning or performing maintenance on the bed.
2. Wipe the bed down with disinfectant and allow the bed to dry completely before use.

### MECHANICAL INSPECTION AND MAINTENANCE

1. Inspect all bed components for damage or excessive wear.
2. Visually examine all welds for cracks.
3. Inspect the deck components for any bending, damage or excessive wear.
4. Check the ends of the actuators and mounting hardware for any bending, damage or excessive wear.
5. Inspect all bolts and fasteners for proper functioning  
(Do not over tighten bolts at pivot points)
6. Check the casters to ensure they are both locking and rolling properly.
7. Check the brake locks on head and foot ends of the bed for proper locking/unlocking.
8. Check each width and length extension portion of the bed deck for proper movement.
9. Ensure that the tension knobs under the head/footboard mounting brackets are tightened, and that the space between the headboard and mattress, and footboard and mattress are not to exceed 1".

## **ELECTRIC INSPECTION AND MAINTENANCE**

1. Inspect all electrical bed components for damage or excessive wear (i.e. broken housings or worn components).
2. Check handset, power and actuator cords for chafing, cuts or excessive wear.
3. Ensure all plugs are fully plugged in and free of damage.
4. Ensure all cords are properly routed with cable ties and free of moving parts.
5. Check all bed functions
  - a. Head raises and lowers properly.
  - b. Foot raises and lowers properly.
  - c. Bed raises and lowers properly.
  - d. LED lights illuminate.
  - e. Unplug bed and operate a bed function to confirm backup battery is functional.
  - f. Check for malfunctions, recalls, or safety notices.







# WARRANTY INFORMATION

Medline Industries, Inc. warrants to the original user (“Customer”) all products manufactured by Medline Industries, Inc. to be free from defects in material and workmanship under normal use and service. If such a defect appears and Customer has given immediate written notice of same, Medline Industries, Inc. shall replace or repair such part at Medline’s option. Medline Industries, Inc. will require the return of the defective part to establish the claim. Medline’s obligation under this warranty shall be limited to said replacement and/or repair. Installation and freight costs for replaced or repaired items remain the responsibility of the Customer. This warranty does not cover failure due to negligence, accident, deliberate abuse, nor improper installation and/or maintenance. Modifications made to products (including modifications without the expressed written consent of Medline Industries, Inc.) shall void this warranty in its entirety. NO FURTHER WARRANTIES, EXPRESS OR IMPLIED INCLUDING, BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOT SPECIFIED HEREIN, ARE MADE BY MEDLINE INDUSTRIES, INC. AND ANY FURTHER EXPRESSED OR IMPLIED WARRANTIES ARE DISCLAIMED BY MEDLINE INDUSTRIES, INC. and this warranty sets forth the full extent of the liability arising from the manufacture, use of sale of the products and materials sold hereunder. No allowances will be made for delays or loss of profit, nor for any other special, indirect or consequential damages or injuries, whether based on tort or contract. Applicable warranty periods commencing from date of shipment from Medline Industries, Inc. are as follows:

Electrical Components	5 Years
Frame	15 Years
Welds	Lifetime



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