# **OPERATION AND MAINTENANCE MANUAL**

**NOA Medical Industries Inc.** 



Elite Riser®



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#### **SPECIAL NOTES**

WARNINGS/CAUTION NOTICES in this manual apply 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 before using. DO NOT USE IF DAMAGED. ONLY USE AUTHENTIC NOA REPLACEMENT PARTS. Contact NOA Medical Industries Inc. Customer Service 1 (636) 239-7600 and the freight carrier for further instruction.

This electric bed has been engineered to provide reliable operation.

This bed has been thoroughly tested and inspected prior to shipment.



DO NOT OPERATE THIS EQUIPMENT WITHOUT FIRST READING AND UNDERSTANDING THIS MANUAL. IF YOU ARE UNABLE TO UNDERSTAND THE WARNINGS, CAUTIONS, OR INSTRUCTIONS, CONTACT A HEALTH CARE PROFESSIONAL OR A QUALIFIED TECHNICIAN BEFORE USING THIS EQUIPMENT. OTHERWISE INJURY OR DAMAGE MAY RESULT.

- The correct bed height when unattended is based on the resident's knee to floor height, mobility, and cognitive level. For residents with good mobility and cognition, the top of mattress should be at a height so that the resident's feet are flat on the floor and the angle between the thighs and calves is 90 degrees. Bed height and the resident's abilities must be evaluated by a medical professional.
- If the resident's physical or mental state may lead to entrapment, the sleep deck should be left in the flat position when unattended.
- Do not use near explosive gases.
- Possible fire hazard when used with oxygen administering equipment other than nasal or masked type.
- When using nasal or masked type administering equipment, oxygen or air tubing <u>MUST</u> be routed and secured properly to ensure tubing does not become entangled, kinked, or severed during normal operation of the bed.
- Close supervision by a caregiver is necessary when this product is used near CHILDREN OR PEOPLE WITH DISABILITIES.
- NEVER PERMIT ANYONE UNDER THE BED AT ANY TIME.
- When operating/moving the bed always ensure that the individual utilizing the bed is positioned properly within
  the confines of the bed. <u>DO NOT</u> let any extremities protrude over the side or between the rails when
  performing these functions.
- After installation and before use, make sure all attaching hardware is securely tightened.
- Pendant cord must be routed and secured properly to ensure cord does not become entangled and damaged during normal operation of the bed.

#### WARNINGS

(continued)

- Keep all moving parts free from obstruction (i.e. blankets/sheets, pads, tubing, wiring, etc.) which may get tangled around the bed, side rails, or legs during operation of the bed.
- Beds are equipped with locking casters. Casters should be locked at all times except when moving the bed.
- The mattress should be a hospital type mattress to allow for proper bed articulation. The mattress must be properly sized to meet entrapment zone dimensional guidelines published by the FDA.
- These side rails are not for pediatric use.
- The side rails are <u>NOT</u> intended and may <u>NOT</u> be used as a restraint. If necessary, a physician or healthcare professional should be consulted for other means of safe restraint.
- When using safety side rails, if excessive side pressure is exerted on them they can be deformed or broken. Do
  not use side rails as handles to move the bed.
- Never permit more than one person in/on the bed at any time.
- Body weight should be evenly distributed over the surface of the bed. The bed weight capacity is 600 pounds.
   This is the total weight of the resident, mattress, bedding, head and foot boards, side rails and any other accessories.
- The bed is provided with an additional safety feature of a protective earth ground. The electrical cord should only be plugged into a GROUNDED 110/120V outlet. DO NOT ALTER THE PROVIDED PLUG. If the plug does not fit the existing outlet, a licensed electrician should install a correct outlet. Never operate the bed if it has a damaged cord or plug.
- Unplug the power cord when performing any maintenance on the bed.
- Do not open any actuator, pendant, or control box. If these units are opened the warranty is voided.
- The Safety Lock provides the resident with a stable and secure bed, providing easy access in and out of the bed. Check that the Safety Lock is engaged and that the bed is solidly in place before leaving the bed unattended or before attempting resident transfers into or out of the bed.
- The Safety Lock is not intended to be used on a sloping floor or building access ramp. Use of the Safety Lock on a sloping floor or building access ramp could result in injury or death.
- The Safety Lock should be locked at all times except when the bed is being moved.
- For maximum resident safety, caster locks (if available) should be used in addition to the Safety Lock system.

#### REDUCING THE RISK OF ENTRAPMENT

The Hospital Bed Safety Workgroup (HBSW) in partnership with the FDA has recognized potential entrapment zones in hospital bed systems and has developed dimensional guidance to reduce the risk of entrapment. The FDA considers the term "hospital bed system" to encompass the bed frame and its components, including the mattress, bed side rails, head and foot boards, and any accessories to the bed.

The entrapment zones involve the relationship of components controlled by the healthcare facility or individual user. Compliance to the dimensional guidelines for reducing the risk of entrapment is primarily the responsibility of the healthcare facility or the individual user.

Anyone having any involvement with hospital bed systems should review and understand the FDA guidelines. These guidelines, entitled "Hospital Bed System Dimensional and Assessment Guidance to Reduce Entrapment - Guidance for Industry and FDA Staff," are available at the FDA website.

#### STEPS TO PREVENT BED FIRES

- Inspect the bed's power cord for damage.
- Connect the power cord directly into a wall-mounted outlet that is in good working order, with no cracks or chips. The plug should fit tightly into the outlet. The ground pin should be intact and secure.
- Do not connect the bed's power cord to an extension cord or to a multiple-outlet strip.
- Do not cover any power cord with a rug. Heat may build up or the cord may be damaged.
- Inspect the floor beneath the bed for buildup of dust and lint. Ask housekeeping to clean if necessary.
- Inspect the resident's bed controls, looking for signs of damage where liquids could leak in.
- Test the bed and its controls, including resident lockout features, to ensure that the bed can move freely in both directions without damaging any cords.
- Check monitors and other resident equipment for signs of overheating or physical damage.
- Keep linens and clothes away from power sources.
- Tell maintenance staff about any unusual sounds, burning odors, or unusual movement of a bed.
- If you suspect overheating, follow your facility's policy for fire safety and get the resident to a safe area if necessary.

#### SPECIFICATIONS AND CONDITIONS

**Note:** All dimensions and weights are approximate unless otherwise noted.

## **Physical Specifications**

	35" Width			39" Width		42" Width	
	76" Length	80" Length	84" Length	80" Length	84" Length	80" Length	84" Length
Sleep Deck Width	35"	35"	35"	39"	39"	42"	42"
Width w/Side Rails	40"	40"	40"	44"	44"	47"	47"
Sleep Deck Length	76"	80"	84"	80"	84"	80"	84"
Overall Bed Length*	80.5"	84.5"	88.5"	84.5"	88.5"	84.5"	88.5"
Weight		205 lbs.		225 lbs.		235 lbs.	

Safe Working Load\*\*: 600 lbs. Deck Height Range: 8" - 28" Maximum Back Angle: 70 degrees Maximum Hip to Knee Angle: 45 degrees \*O.A.L. includes both head and foot boards.

\*\*The Safe Working Load is the total weight, including the resident, mattress, bedding, head and foot boards, side rails, and other accessories evenly distributed on the sleep deck.

# **Locating Your Serial Number**



= 600 lbs.

120 VAC - 5.0 Amps - 60 Hz Duty Cycle: 2 min. on / 18 min. off

0123456 Serial No. Date of MFG. 01/01/11 Part No. 1050007BEI-T

E212295 Complies with: c(MET)<sub>Us</sub> UL 60601-1 CSA C22.2 No.60601-1 U.S. Patent No. Pending

The serial number label is located at the foot end of the bed, under the mattress support deck, on the bed frame.

Please have the serial number and model of the bed available when calling Customer Service 1(636) 239-7600.

#### **Environmental Conditions**

Ambient temperature range of 50°F to 104°F +10°C to +40°C Relative humidity range of 30% to 75% Atmospheric pressure range of 20.6 to 31.3 Inches of Hg.

#### Control Box and Actuators- IP54

Protected against dust and splashing water.

#### Pendants- IP66

Protected against dust and low-pressure jets of water.

## **Electrical Specifications**

Power: 110/120 V.A.C. Frequency: 60 Hz Current Rating: 5.0 Amps

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

#### **INSTALLATION**

#### Required Tools

(1) - #2 Phillips Head Screwdriver

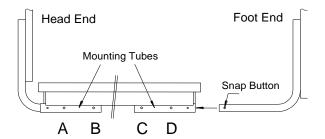
#### Hardware Bag Contents

- (8) 1/4 20 x 1.5" Machine Screws
- (8) 1/4 20 Insert Cap Nuts
- (1) Adjustable Cable Clamp
- (1) #10-12 x 3/4 Wood Screw

Upon receipt of your new bed, carefully inspect the bed and accessory components for any damage received in transit. Notify the NOA Customer Service at 1 (636) 239-7600 immediately if any product or component has been damaged or is missing from your shipment.

## Installing the Head and Foot Boards

On large orders, beds are shipped with transport legs inserted in the foot board mounting tubes. Remove and discard these legs and replace with foot board brackets. Insert brackets into the mounting tubes until snap buttons align in the holes as indicated below. Ensure that snap buttons are seated in the proper holes prior to bed use.



Bed Length	Head Board Bracket Hole	Foot Board Bracket Hole
76"	В	С
80"	В	D
84"	Α	D

Normally the cap nuts are installed in the head and foot boards at the factory. If they are not installed at the factory insert the cap nuts provided in the hardware bag into the pre-drilled holes in the head and foot boards using a rubber mallet. If laminated on one side only, install the nuts on the laminated side of the board. Attach head and foot boards to the front face of the vertical bracket using the provided screws. Tighten all hardware.

Baseboard bumpers are factory installed on 76" and 80" beds. On 84" beds, the wire formed baseboard bumper must be installed in the head end caster base. Insert both ends of the bumper into holes as shown on the Bed Diagram. Press until the stop is reached.

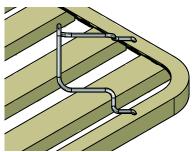
### Securing the Power Cord

Approximately 8 feet of exposed power cord is provided with the bed. A cable tie has been supplied so that excess cord can be maintained and secured to the back of the head board. When securing the power cord, ensure that an adequate loose length is maintained to allow for the full range of motion of the bed.

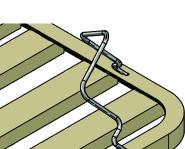
## **Installing the Corner Mattress Retainers**

Corner Mattress Retainers (PN 3040025) should be installed at each corner of the bed to assist in maintaining proper alignment of the mattress during bed use. In order for the retainers to be effective, beds should be used in conjunction with a hospital grade mattress designed to allow for bed articulation. The mattress should be 6" thick with a width and length conforming to the sleep deck size. Mattress retainers should be installed prior to installation of any deck mounted side rails or assist bars.

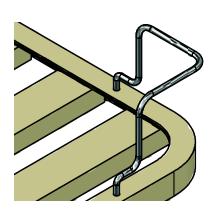
 Locate (2) ¼" holes at each bed corner in the outer angle of the head and foot deck. Insert each leg of the Mattress Retainer.



With the leg of each side of the Mattress Retainer
positioned in the ¼" holes, rotate the Retainer
towards the corner of the bed while slowly inserting
the legs further into the holes.



 When fully rotated, press the Mattress Retainer into position and then place the mattress on the rib-deck sleep surface. Check that all corners of the mattress are within the Retainers. A slightly compressed fit is desired.



Ensure that the Retainers hold the mattress securely to prevent mattress slippage during head and foot deck articulation.

Install accessory components as per their instructions.

Verify that there are no gaps between the mattress, head and foot boards, side rails, or any other accessories wide enough to entrap a resident's head, neck, or body. Additional information regarding bed entrapment may be obtained from the U.S. Food and Drug Administration Center for Devices and Radiological Health web site.

Your bed is ready for use. The bed should be located and casters locked while the bed is in its lowest position. Adequate spacing must be maintained between the wall and the bed to prevent damage to the bed or walls while raising or lowering the bed. Check to be sure that vertical movement of bed does not interfere with the power cord or plug.

## **Locating and Connecting the Pendant (Handset) Control**

For convenience the bed's pendant control may be located on either the left or right side of the bed.

As shipped from the factory the bed has a six button pendant control plugged into a "Y" cable end on the resident's left hand side as standard. To relocate the pendant to the resident's right side simply unplug the pendant and plug it back into the other end of the "Y" cable on the opposite side of the bed.

## **Bed Transport:**

The bed features a patented rolling base that allows it to be rolled or locked at any bed height. In order to lock the bed, activate the brakes located on the twin wheel casters at the foot and head of the bed. To roll the bed, disengage brakes. Activating caster brakes does not disengage bed functions.



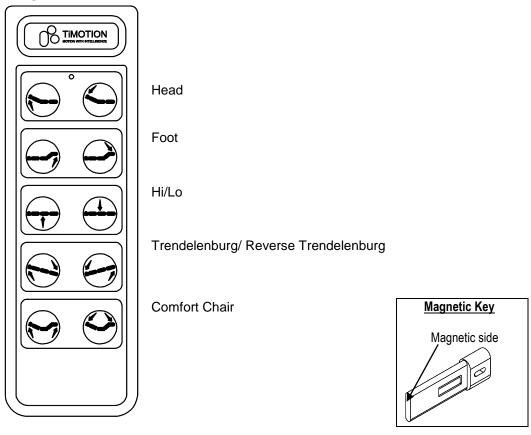
If casters are not locked swivel and wheel rotation can allow for bed motion with little or no resistance.

This can result in loss of balance, fall, and personal injury. Ensure that the casters are locked to prevent any bed movement during resident transfer and/or treatment.

#### **BED OPERATION**

## **Bed Positioning**

Bed functions are operated with either an 8 or 10 button pendant. A 10 button pendant with lock out feature (4040136) is shown below. Button functions on the hand held pendant control are clearly identified with universal icons. The hand control is provided with an attached bracket for suspending the control from side rails or bed ends. PRIOR TO RAISING OR LOWERING THE BED AND/OR SIDE RAILS, CHECK TO ENSURE THAT THE CORD FOR THE PENDANT CONTROL HAS NOT BECOME ENTANGLED IN BED PARTS. THE CORD SHOULD BE KEPT CLEAR OF MOVING PARTS AT ALL TIMES.



### **Operation of the Lock Out Pendant**

To put the lock out pendant into operation, plug the connector into the female end of the Y cable. With the key inserted the normal keypad functions are locked out (mode 1).

With the Key inserted in the pendant any function can now be locked by choosing the down button of the function to be locked and holding the button in for approximately 4 seconds. A light will be displayed showing the function is locked (mode 2). Remove the key to now use the pendant with the locked function. All other button functions will operate normal.

To unlock the function, insert the key then hold the up position button in for approximately 4 seconds, the light will turn off returning the function for normal use (mode3). Remove the key for normal use of all the buttons.

The pendant will stay in the unlocked mode unless the key is inserted or a function is locked.



Keep the Lock Out Pendant away from magnetic fields which could change the Pendant Mode.

#### **ACCESSORIES AND OPTIONS**

## **Optional Sub Acute Care**

The optional 10 Button Locking Pendant (PN 4040136, shown below) and 10 Button Non-locking, Backlit Pendant (PN 4040137) both allow for Trendelenburg/Reverse Trendelenburg and Cardiac Chair Positioning.

Trendelenburg/Reverse Trendelenburg Positioning – This feature allows for the immediate adjustment of the bed into an incline of up to 17.5 degrees in either Trendelenburg or Reverse Trendelenburg positions. Trendelenburg positioning is controlled with two buttons located on the ten button pendant (see Bed Operation). To return to a normal horizontal bed position, either fully raise or lower the bed using the pendant or foot board control.

**Cardiac Chair Positioning** – The cardiac chair position can be achieved by positioning the bed in Reverse Trendelenburg and raising the head and foot sections to desired levels.

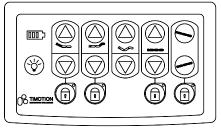
**Attention:** Ensure the head end of the bed is free to roll and at least 7 inches away from any obstructions before operating Trendelenburg or Reverse Trendelenburg features.

## **Optional Under Bed Lighting**

Under Bed Lighting (7540061) is available as an option.

## **Optional Foot Board Control**

An optional Lock Out Foot Board Control with Sub Acute functions is available with (4040149) or without (4040148) under bed lighting.



PN 4040149

## **Connecting the Optional Foot Board Control Cable**

- 1. Plug the Foot Board Control into the Foot Board Control Cable.
- 2. Plug the Foot Board Control Cable into the Handset "Y" Cable OR the Junction "Y" Cable.
- 3. Plug the Handset "Y" Cable **OR** the Junction "Y" Cable into the pendant socket on the control box.

#### **Optional Battery Backup**

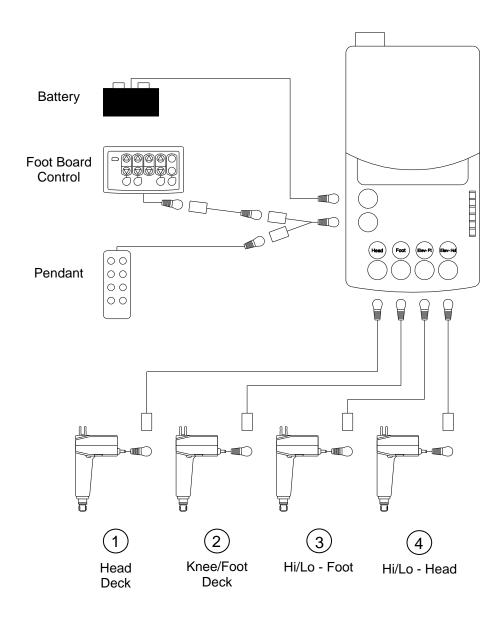
In the event of a power failure the control box is provided with a power down feature that enables lowering the bed without AC power. In order to use this feature the control box must have the optional battery backup (PN 4040108).

# **SERVICING**

# Troubleshooting

SYMPTOM	POSSIBLE CAUSE(s)	ACTION			
No Power	<ol> <li>Bed is not plugged into A/C power.</li> <li>Cut/damaged power cord.</li> <li>Loose plug for pendant. Cut/damaged pendant cord.</li> <li>Actuator plug not connected.</li> </ol>	<ol> <li>Check plug to receptacle.</li> <li>Check power cord for damage.</li> <li>Check pendant cord for damage.</li> <li>Check actuator connection to control box. Inspect actuator cord for damage.</li> </ol>			
Actuators operate, but the wrong movement occurs	Cut/damaged pendant cord.     Damaged/defective Y-cable.	<ol> <li>Inspect pendant cord for damage.</li> <li>Unplug the Y-cable and plug the pendant directly into the control box.</li> </ol>			
One or more actuators do not function	<ol> <li>Loose or unplugged connection of actuator cord to control box.</li> <li>Cut/damaged actuator cord.</li> <li>Defective actuator.</li> <li>Defective control box.</li> <li>Damaged/defective Y-cable.</li> </ol>	<ol> <li>Check actuator plug to control box.</li> <li>Inspect actuator cord for damage.</li> <li>Replace actuator.</li> <li>Replace control box.</li> <li>Unplug the Y-cable and plug the pendant directly into the control box port.</li> </ol>			
Bed is not level when operating Hi/Low functions	Actuators are out of synchronization.     Damaged/defective Y-cable.	<ol> <li>Run bed to full down position and continue to hold button for 3 seconds (after bed reaches full down position).</li> <li>Unplug the t-cable and plug the pendant directly into the control box port.</li> </ol>			

### **MCL Control Box Socket Identification**

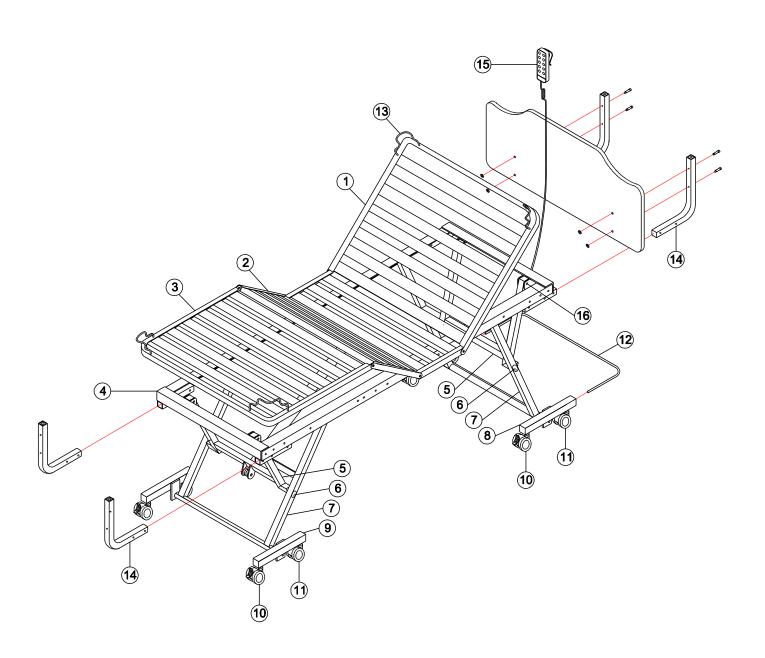


## **Steps for Isolating Electrical Problems**

- 1. Check all connections.
- 2. Exchange pendant with a known working pendant.
- 3. Exchange actuator plugs at known working control box ports.
- 4. Check actuator with a known working control box.

IF USE OF THIS TROUBLESHOOTING GUIDE DOES NOT CORRECT THE PROBLEM PLEASE CALL **CUSTOMER SUPPORT AT 1 (636) 239-7600**.

# **Bed Diagram**



## **Parts List**

Item No	76"	80"	84"	QTY	DESCRIPTION
	35" - 1050007XXX-T	35" - 1050008XXX-T	35" - 1050009XXX-T		Bed Model
		39" - 1050010XXX-T	39" - 1050011XXX-T		
		42" - 1050012XXX-T	42" - 1050013XXX-T		
1	35" - 5240002XXX	35" - <b>5240002XXX</b>	35" - 5240003XXX	1	Head Deck
		39" - <b>5250002XXX</b>	39" - 5250003XXX		
		42" - 5250012XXX	42" - 5250047XXX		
2	35" - 5240004XXX	35" - <b>5240004XXX</b>	35" - 5240004XXX	1	Knee Deck
		39" - <b>5250004XXX</b>	39" - 5250004XXX		
		42" - 5250014XXX	42" - 5250014XXX		
3	35" - 5200044XXX	35" - <b>5200045XXX</b>	35" - 5200045XXX	1	Foot Deck
		39" - <b>5250045</b> XXX	39" - <b>5250045XXX</b>		
		42" - 5250046XXX	42" - 5250046XXX		
4	35" - 5150003XXX	35" - 5150003XXX	35" - 5150003XXX	1	Bed Frame
	39" - 5150003XXX	39" - 5150003XXX	39" - 5150003XXX		
	42" - 5150004XXX	42" - 5150004XXX	42" - 5150004XXX		
5	5150002XXX	5150002XXX	5150002XXX	2	Elevation Arm
6	3050007XXX	3050007XXX	3050007XXX	4	Pivot Pin
7	5150001XXX	5150001XXX	5150001XXX	2	Elevation Leg
N.S.	4040029	4040029	4040029	2	Telescoping Gatch
8	5240030XXX	5240030XXX	5240030XXX	1	Head Caster Base
9	5240005XXX	5240005XXX	5240005XXX	1	Foot Caster Base
10	4040126	4040126	4040126	4	Caster - Twin Locking
11	4040125	4040125	4040125	4	Caster - Twin Non-Locking
12	3040036	3040036	3040035	1	Baseboard Bumper
13*	3040025	3040025	3040025	4	Mattress Retainer
14*	1540001XXX	1540001XXX	1540001XXX	4	Head/Foot Board Bracket
N.S.	4040100	4040100	4040100	1	Actuator – Head/Foot
N.S.	4040099	4040099	4040099	2	Actuator – Elevation
N.S.	4040102	4040102	4040102	3	Actuator Cord – 21.5"
N.S.	4040103	4040103	4040103	1	Actuator Cord – 8.0"
15	4040135	4040135	4040135	1	Pendant
N.S.	4040104	4040104	4040104	1	Pendant Disconnect Cable
N.S.	4040098	4040098	4040098	1	Control Box
N.S.	3050008	3050008	3050008	4	Guide Roller
16	4000016	4000016	4000016	12	Clevis Pin – 3/8" X 2-1/4"
N.S.	4000222	4000222	4000222	12	Cotter Pin (Rue Clip)
N.S.	4020008	4020008	4020008	8	Screw - #10-16 x 3/4"
N.S.	4030008	4030008	4030008	4	Rubber Bumper

#### Note:

- Replace XXX with paint color of part (BLK for Black, BEI for Beige).
- N.S. Not Shown
- \*Indicates part is shipped in hardware box (PN 7000043XXX).

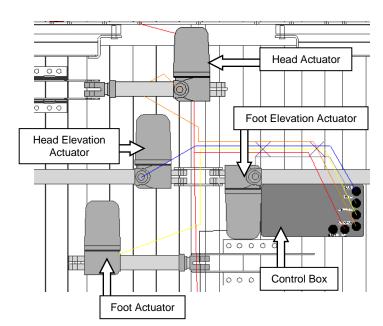
ATTENTION: Only use authentic NOA Medical Industries, Inc. replacement parts.

# **Replacement of Actuators**

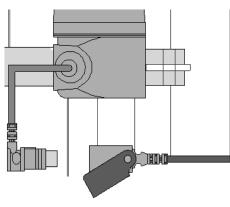
# 

Unplug bed before beginning work.

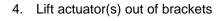
1. With help, roll the bed onto its side.

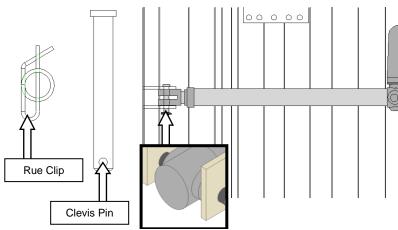


2. Unplug actuator cord from extension cord.



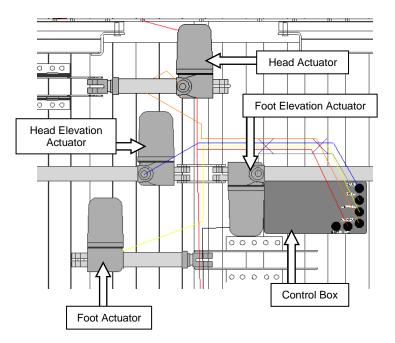
3. Remove rue clips and clevis pins. Save these parts for reuse.





Install new actuator in reverse order.

- 5. Place actuator(s) in brackets.
- 6. Put rue clip and clevis pin through bracket and actuator.
- 7. Plug actuator cord into extension cord.
- 8. With help, roll bed right side up.



#### **MAINTENANCE AND CLEANING**

Maintenance and cleaning procedures should be performed at least once a year or as required.

## **Cleaning and Disinfecting The Bed**

- 1. \(\triangle\) Unplug power cord before cleaning or performing maintenance on electric bed.
- 2. Do not submerge the pendant in liquid.
- 3. Do not steam or pressure wash the bed or any of its components.
- 4. Wipe down actuators, control box, and pendant with a damp, well wrung out cloth or with a disinfecting wipe.
- 5. Excess water or liquid may damage electrical parts and poses a shock hazard.
- 6. Wipe down the remainder of the bed with a disinfectant.
- 7. Allow the bed to dry completely before using.

### **Periodic Inspection**

- 1. Perform the procedure "STEPS TO PREVENT BED FIRES" listed in this manual.
- 2. Review "REDUCING THE RISK OF ENTRAPMENT" listed in this manual.
- 3. Review and inspect for compliance to the "WARNINGS" listed in this manual.
- 4. Check casters to ensure they lock, if applicable, and roll properly.
- 5. Inspect all bed components for damage or excessive wear.
- 6. Visually examine all welds for cracks.
- 7. Inspect the deck components for bending or damage.
- 8. Check the motor actuator shaft and its connections for bending, damage, or excessive wear.
- 9. Check actuator ends and its mounting hardware for bending or excessive wear.
- 10. Inspect all bolts and fasteners. (Do not over tighten bolts at pivot points.)
- 11. Check all cords for cuts or other damage.
- 12. Make sure all plugs are fully seated.
- 13. Make sure all cords are free of moving parts.

## LIMITED WARRANTY

The Manufacturer warrants to the original user (Customer) all products manufactured by the Manufacturer to be free from defects in material and workmanship under normal use and service for a period as specified below. If such a defect appears and Customer has given immediate written notification of same, the Manufacturer shall replace or repair such part at the Manufacturers option. The Manufacturer will require the return of the defective part to establish the claim. The Manufacturer'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 the Manufacturer) shall void this warranty in its entirety. NO FURTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOT SPECIFIED HEREIN. ARE MADE BY THE MANUFACTURER, AND THIS WARRANTY SETS FORTH THE FULL EXTENT OF THE LIABILITY ARISING FROM THE MANUFACTURE, USE OR 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 NOA are as follows:

Welds	Lifetime
Electrical components	
Mechanical components	4 years
Wood products	1 year

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