



Choice Model #15901C

Elite Model #15902C

Full Electric

Long Term Care Bed

Owner's Manual



Choice, #15901C



Elite, #15902C

* Beds Shown with Optional
Assist Rails

This manual must be given to the Owner/User of this bed and should be read carefully before putting this product into use. Keep manual in an accessible location for future reference.

Drive Medical Design & Manufacturing

99 Seaview Blvd
Port Washington, NY 11050
Phone: 1.877.224.0946 Fax: 516.988.4600

www.drivemedical.com

TABLE OF CONTENTS

Standard Symbols.....	3
Warning Labels.....	4
Features and Technical Specifications.....	5
General Safety.....	10
Compliance.....	13
Unpacking and Assembly.....	14
Wall Bumper.....	15
Mattress Retainer.....	16
Head/Foot Board Installation.....	17
Assist Bar (option).....	18
Sleep Surface (Deck) Width Extension (option).....	20
Heel Lift Ratchet Adjustment.....	21
Battery Backup (option).....	22
Bed Functions.....	23
Embedded Staff Control (option).....	24
Bed Mobilization and Stabilization.....	26
Care and Maintenance.....	27
Cleaning Instructions.....	27
General Preventative Maintenance.....	27
Servicing (Motor/Actuator/Control Box/Power Cord).....	29
Trouble Shooting Guide.....	31
Warranty.....	33
Appendix.....	35
(FDA Jan 2008: A guide to Bed Rail Safety Bed Rails in Hospitals, Nursing Homes and Home Health Care: The Facts)	



STANDARD SYMBOLS USED IN THIS MANUAL

This manual includes important information about safety of personnel and equipment. As you read through this manual be aware of the Symbols and their meaning. Note: The information contained in this document is subject to change without notice.



DANGER

Information that appears under the DANGER description concerns the protection of personnel from direct and pending hazards that, if not avoided, will result in immediate, serious personal injury or death in addition to damage of the equipment.



WARNING

Information that appears under the WARNING description concerns the protection of personnel from potential hazards that, if not avoided, can result in serious injury or death, equipment damage, or both.



CAUTION

Information that appears under the CAUTION description concerns the protection of personnel from potential hazards that, if not avoided, may result in minor injury, equipment damage, or both.



ELECTRICAL SHOCK HAZARD

Disconnect power before servicing. Maintenance/Repairs to be performed by trained personnel only. Improper use will result in serious injury or death.



OPEN FLAME OR EXPLOSIVE GASES

DO NOT Use near open flame or explosive gasses.



CRUSH HAZARD

Danger Crush hazard. Stay clear of this area during operation.

NOTE

Information that appears under the NOTE description gives added information, which helps in understanding the item being described.

WARNING LABELS

The following warning labels are placed on specific areas of the bed to help alert you to conditions that can damage the bed or cause injury. Labels should not be removed from the bed under any circumstances.

	Item # 15901C Drive Medical Design & Manufacturing 99 Seaview Boulevard Port Washington, NY 11050 Ph: 1-877-224-0946 Fax: 516-998-4601	Duty Cycle: 10% Max 2min/18min DO NOT EXCEED		204 KG (450LBS) MAXIMUM LOAD CAPACITY OF BED IS 204KG (450LBS). DO NOT EXCEED 204KG (450LBS)	www.drivemedical.com ETL CLASSIFIED  Conforms to ANSI/UL STD. 60601-1, IEC60601-2-38, IEC60601-1-2 Certified to CAN/CSA STD. C22.2 NO. 601.1-M90 P/N: TP60000042 MADE IN CHINA REV: 04
-----------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------	-----------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



DO NOT place feet or other objects beneath Assist Rail. When Assist Rail is installed on bed, Pinch Point/Crush Hazard exists between the Assist Rail and the floor when bed is at lowest position which may cause **INJURY**.

REV: 03 P/N: TC60000006



Stay clear of the Bed Frame and ensure children, pets or other items are not under the bed before lowering. Crush point exists due to LOW BED CLEARANCE. Lowering the bed without care may cause INJURY.

P/N: TB60000000
REV: 01



DO NOT place feet or other objects beneath Assist Rail. When Assist Rail is installed on bed, Pinch Point/Crush Hazard exists between the Assist Rail and the floor when bed is at lowest position which may cause **INJURY**.

REV: 03 P/N: TC60000007



Ensure the Assist Rail is in the Upright/Vertical locked position before lowering bed. Failure to position Assist Rail in upright position may cause the bed to become UNSTABLE due to interference between the assist rail and the floor when lowering the bed. An unstable bed may tilt causing property damage or personal injury.

REV: 03 P/N: TC60000009

Bed Frame Serial Numbers

When ordering parts or contacting an Authorized Distributor's Customer Service Department, please include bed's model and serial numbers, found on the identification labels. The identification labels are located under the sleep deck on the frame rail below the head section on either side of the bed.

FEATURES AND TECHNICAL SPECIFICATIONS

MODELS #15901C & #15902C

Standard Features

- Roll at Any Height Design
- Locking System:
 - Roll-at-any-Height Caster Lock Mechanism
 - Roll-at-any-Height Foot Pad Lock Mechanism (if equipped)
- IV pole holder
- Slat Sleep Deck
- Heavy Duty Casters
- Mattress Retainer
- Heel Lift Ratchet
- Welded frame

Accessories and Options

- Pressure Reduction Mattress
- Air Flotation Mattress
- Cushion Fall Mat
- Assorted Bed End styles & colors
- 42" Width Extension
- Rotating Assist Bars & Rails
- Staff Control Panel **
- Battery Backup System **
- Trapeze Assembly
- Bed Transporter system

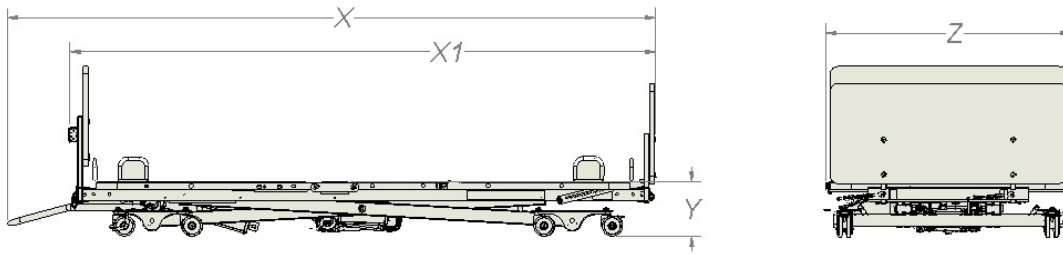


Incompatible side rails can create hazards. Read instructions for use. Use only side rails that Drive Medical has indicated are compatible with this bed.

** #15902C Model ONLY

Bed Frame Serial Numbers

When ordering parts or contacting an Authorized Distributor's Customer Service Department, please include bed's model and serial numbers, found on the identification labels. The identification labels are located under the sleep deck on the frame rail below the head section on either side of the bed.



TECHNICAL SPECIFICATIONS

ITEM	SPECIFICATION
Overall Length (with wall bumper) (X)	91.5" (2310 mm)
Overall Length (without wall bumper) (X1)	86.5" (2195 mm)
Overall Width (15901C)* (Z)	36" (916 mm)
Overall Width (15902C)* (Z)	36.75" (934 mm)
Overall Width (with side 1 of width extension)	39" (990 mm)
Overall Width (with both sides of width extension)	42" (1067 mm)
Overall Width Increase with Fixed Assist Bar	2.25" (57 mm)
Overall Width Increase with Rotating Assist Bar/Rail	3.625" (92mm)
Length of Mattress Deck	79"
Mattress Deck Low Position (Y)	8"
Mattress Deck High Position (Y)	26"
Head Deck Angle Range	0° to 70°
Thigh Deck Angle Range	0° to 20°
Foot Deck Angle Range	0° to 6°
Knee to Foot Deck Angle Range	0° to 26°
Weight of Bed (15901C) without H/F boards or accessories	210 lbs (95 Kg)
Weight of Bed (15902C) without H/F boards or accessories	212 lbs (96 Kg)
Maximum Weight Capacity**	450 lbs (204 Kg)
Input Voltage	100-240 VAC, 50/60 Hz
Actuator Voltage	24 VDC
Mattress Thickness Range	5.5" to 7" (140 mm to 178 mm)
Mattress Width	36" (914 mm) or 42" (1067 mm)
Mattress Length	80" (2032 mm)

*Assist Bars add 3" to each side of the bed

**This includes the weight of the resident/resident and all other accessories including, but not limited to mattresses, head/footboards, assist bars, etc.

General information

This medical bed is a class II type B IP54 medical device. The recommended environment for operation of the bed is listed below:

Ambient temperature: 10°C ~ 40°C (50°F~104°F)

Relative humidity range: 30% ~ 75%

Atmospheric pressure: 86KPa~ 106Kpa

The recommended environment for storage/transportation is listed below:

Ambient temperature: -10°C ~ 50°C (14°F~122°F)

Relative humidity range: 10% ~ 93%

Atmospheric pressure: 86KPa~ 106KPa

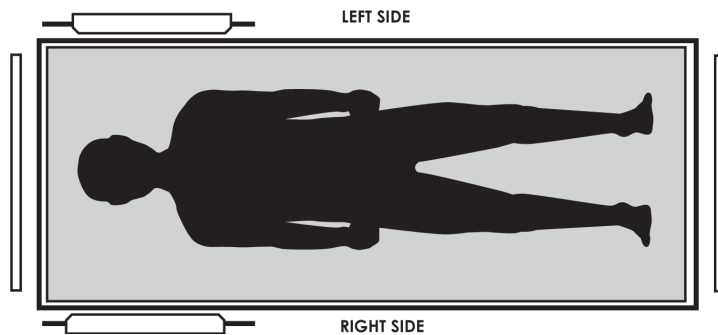
NOTE: The information in this document is subject to change without notice.

Only items that have been specified as part of this bed or that have been specified as being compatible with this bed shall be connected to it.

Caution- This bed frame complies with EMC requirements of IEC 60601-1-2. Radio transmitting equipment, cell phones or similar electronic devices, used in proximity of the bed, may affect the beds performance.

There are no known contra-indications for use of this product.

LEFT/RIGHT REFERENCE GRAPHIC



ELECTROMAGNETIC EMISSION AND IMMUNITY

This MEDICAL ELECTRICAL EQUIPMENT needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the table below.

Portable and mobile RF communications equipment can affect MEDICAL ELECTRICAL EQUIPMENT.




WARNING

The use of ACCESSORIES, transducers and cables other than those specified, with the exception of transducers and cables sold by the manufacturer of the EQUIPMENT or SYSTEM as replacement parts for internal components, may result in increased EMISSION or decreased IMMUNITY of the EQUIPMENT or SYSTEM.

DECLARATION - ELECTROMAGNETIC EMISSIONS

DECLARATION - ELECTROMAGNETIC EMISSIONS			
Guidance and manufacturer's declaration - Electromagnetic emissions			
The Drive Medical #15901C, #15902C is intended for use in the electromagnetic environment specified below. The customer or the user of this bed should ensure that it is used in such an environment.			
Emissions Test	Compliance	Electromagnetic environment - Guidance	
RF Emissions CISPR 11	Group B	The Drive Medical #15901C/15902C must emit electromagnetic energy in order to perform its intended function. Nearby electronic equipment may be affected.	
RF Emissions CISPR 11	Class 1	The Drive Medical #15901C/15902C is suitable for use in all establishments including domestic establishments and those directly connected to the public power supply network that supplies buildings used for domestic purposes.	
Harmonic Emissions IEC 61000-3-2	Not Applicable		
Voltage fluctuations/ flicker emissions IEC 6100-3-3			
Guidance and manufacturer's declaration: Electromagnetic Immunity			
Recommended separation distances between portable and mobile RF communications equipment and the Drive Medical #15901C & #15902C			
The Drive Medical #15901C/15902C is intended for use in the electromagnetic environment in which radiated RF disturbances are controlled. The customer or user of the Drive Medical #15901C/15902C can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the bed as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d = (1,2\sqrt{P})$	80 MHz to 800 MHz $d = (1,2\sqrt{P})$	800 MHz to 2,5 GHz $d = (2,3\sqrt{P})$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
0.1	0.38	0.38	0.73
10	3.8	3.8	7.3
100	12	12	23
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) accordable to the transmitter manufacturer.			
NOTE 1 At 80 MHz and 800 MHz the separation distance for the higher frequency range applies			
NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

The Drive Medical #15901C/15902C is intended for use in the electromagnetic environment specified below. The customer or the user of the Drive Medical #15901C/15902C should ensure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 3 V/m 80 MHz to 2.5 GHz	3 Vrms 3 V/m	<p>Portable and mobile RF communications equipment should be used no closer to any part of the Drive Medical #15901C/15902C including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separation distance</p> $d = (1,2\sqrt{P})$ $d = (1,2\sqrt{P}) \text{ 80MHz to 800MHz}$ $d = (1,2\sqrt{P}) \text{ 800MHz to 2,5MHz}$ <p>Where P is the maximum output power rating of the transmitter in watts (W) according to the Transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,^a should be less than the compliance level in each frequency range.^b</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 

NOTE 1 At 80MHz and 800MHz the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

^a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the Drive Medical #15901C/15902C is used exceeds the applicable RF compliance level above, the bed should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the Drive Medical #15901C/15902C.

^b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than $[V_i]$ V/m.

GENERAL SAFETY

NOTE: **DO NOT operate this product without first reading and understanding this user manual.**

Damage or injury may result from improper use of this product.

The information contained in this document is subject to change without notice.

The Drive Medical roll-at-any-height beds are **intended for use** within an institutional healthcare environment. Drive Medical recommends compliance to Application Environment 3 (i.e.: Skilled Nursing, Transitional Care, Rehabilitation Care, and Assisted Living environment).



ELECTRICAL SHOCK HAZARD

This bed is equipped with a three-prong grounding plug for protection against possible shock hazard and should only be used with a properly grounded 110 VAC to 240 VAC, 50/60 Hz electrical outlet. DO NOT under any circumstances cut or remove the grounding prong. DO NOT open any actuators, control boxes or pendants. Service is only to be performed by authorized service personnel. If unauthorized service is performed on any components the warranty is void.

- DO NOT use an extension cord.
- DO NOT allow the cord, electrical outlets, electrical control box or hand pendant to become wet or submerged.
- DO NOT operate the bed if any electrical component such as the power cord, electrical outlet, connections, motor/actuator or mechanical component has malfunctioned or has been damaged in any way.



WARNING

This electric bed is NOT designed to be used as a resident transport device. Please use an approved resident transport device when moving a resident.

DO NOT use assist bars as handles for moving the bed.

DO NOT roll the bed over any power or pendant cords.

- Possible Injury may occur due to falls if bed is not kept in lowest height position except when care is being provided.
- Bed should be at lowest suitable height for Resident entry and exit.
- Possible Injury or Death may occur due to pendant cord being a source for entangling Resident. Residents with decreased mental acuity should NOT have access to pendant.
- Possible Injury or Death may occur if bed is pushed over abrupt thresholds while bed is occupied. This bed was not designed to transport residents.

DO NOT plug anything into housing components of bed (pendants or actuators) while power cord is plugged into the wall outlet. Any cords or medical tubing used on or with this bed MUST be routed and secured properly to ensure that they DO NOT become entangled, kinked or severed during normal operation of the bed.

Possible Injury or Death may occur if accessories are not provided by an Authorized Distributor. Please contact an Authorized Distributor for accessories that are compatible before use of bed.



OPEN FLAME OR EXPLOSIVE GASES

DO NOT use near explosive gases.

Possible Fire Hazard if the use of nasal mask in ½ bed tent O₂ administering equipment. If O₂ tent is being used it should not fall below mattress deck. The pendant should not be placed in oxygen enriched environment such as an O₂ tent.



CRUSH HAZARD

CRUSH HAZARD Possible injury may occur when activating the Foot Pad Lock Mechanism*. This feature was designed to be activated by your foot. Using your hand could result in injury.

*#15902C Only.



WARNING

Drive Medical Choice & Elite LTC beds are intended for use within an institutional healthcare environment (i.e.: Skilled Nursing, Transitional Care, Rehabilitation Care, and Assisted Living). Compliance with the regulations and guidelines as specified by your facility is recommended:

- Keep all moving parts, including the mattress deck (sleep surface), main frame, and all drive actuators and moving components free of obstructions.
- NEVER permit more than one (1) person in/on the bed at any time. The weight capacity of this bed is 450 pounds including all accessories and options.
- Body weight should be evenly distributed over the sleeping surface of the bed. Avoid situations where entire body weight is on a raised head or foot surface. This includes while assisting the user in repositioning or transferring in or out of bed.
- NEVER allow anyone under the bed at any time.
- Supervision is required when this product is operated by or near children or people with disabilities.
- Ensure that the individual using this bed is properly positioned, particularly when the bed is being operated or moved.
- DO NOT let any limbs or body parts protrude over the side or between bed components, especially when the bed is being moved or operated.
- Caster and floor locks (if equipped) shall be used except when bed is being moved. When transferring a resident into or out of the bed, always engage the floor lock and lock the caster(s). **Bed is not intended for patient transport.**

**WARNING**

No modification of this equipment is allowed.

Only items that have been specified as part of this bed or that have been specified as being compatible with this bed shall be connected to it.

**ENTRAPMENT WARNING**

Accurate assessment of the resident and monitoring of correct maintenance and equipment use are required to prevent entrapment. For additional information on product and safety issues for bed frames and rails refer to product manuals specific to the product or accessories you have or are planning to install. If bed frames have been serviced or any other adjustments have been made, you must ensure all parts are securely back in place before operating the bed. Other manufacturers assist bars or side rails may not be compatible and can lead to entrapment issues or harm to residents and staff. Make sure mattress is the correct size for bed frame and the assist bars are secured to frame to decrease the risk of entrapment.

On March 10, 2006, the U.S. Food and Drug Administration (FDA) released guidelines for reducing the risk of hospital bed entrapment entitled; "Hospital bed System Dimensional and Assessment Guidance to Reduce Entrapment". This guidance document identifies potential entrapment areas within the bed frame, rails and mattress and identifies those body parts most at risk for entrapment. It also provides manufacturers with basic design criteria to consider when developing hospital/convalescent beds; recommends specific test methods to assess the conformance of existing hospital/convalescent bed systems; and answers frequently-asked questions about entrapment issues.

The FDA Guidance document identifies specific dimensional criteria on potentially injury-threatening gaps and spaces that can occur between bed system components, such as side rails when improperly installed. Drive Medical's Long Term Care beds and approved accessories are manufactured to be in conformance with these guidelines.

Please be aware that entrapment issues can still arise when components and accessories are not properly installed on the bed. It is important for the provider or facility staff to recognize they have an equal role in complying with the FDA guidelines to help ensure resident safety and avoid injuries.

Copies of this document can be obtained from the FDA website:

<http://www.fda.gov/medicaldevices/deviceregulationandguidance/guidancedocuments/ucm072662.htm>

COMPLIANCE INFORMATION

Matching the correct bed components to meet regulatory specifications can be complicated. Drive Medical offers a wide variety of compatible options and an Authorized Distributor can assist your facility in selecting correct components or accessories recommended for the specific bed model.



ASSIST RAIL WARNING

Other manufacturers assist bars and side rails may not be compatible and can lead to entrapment issues or harm to patients. Only compatible Drive Medical assist bars and rails may be used on this bed. Ensure mattress is the correct size for bed frame, mattress retainers are in place and the assist bars are secured to frame to decrease the risk of entrapment.

MATTRESS SPECIFICATIONS



WARNING

Possible ENTRAPMENT Hazard may occur if you do not use the recommended specification mattress.

Resident entrapment may occur leading to injury or death.

- A mattress may not be included with this bed. It is recommended that a 36" wide mattress that is made to fit the length of an 80" bed frame is used, such as a Drive Medical Pressure Reduction Mattress. Mattress height must be a minimum of 5 ½ inches and maximum of 7 inches.
- Also available are Drive Medical's assortment of mattress overlays and Low Air Loss flotation mattress systems.
- See Technical Specifications page for compatible mattress dimensions.

UNPACKING AND ASSEMBLY

UNPACKING INSTRUCTIONS

Tools needed: wire cutters or pliers



CAUTION

DAMAGE to the equipment may occur if the incorrect zip ties are removed.

- If the carton is in an upright position, slowly lower to the floor and position with casters down.
- It may be necessary for two or more people to help in lowering the bed.
- Cut black strapping around box; remove box ends and plastic surrounding bed frame.
- Cut zip ties to remove wall guard at the head of the bed.
- Cut the zip ties to remove mattress retainers on each side of the bed.
- Remove ties from pendant.
- Remove any remaining zip ties or foam left on bed frame.
- Locate power cord and plug into grounded 110-240 VAC outlet.
- Raise the bed frame and check to make sure everything is plugged into the control box and no wires are loose. If wires are not in control box, match up by the color coded system. (See instructions below)

NOTE: DO NOT remove zip ties that are holding cords underneath bed frame.

INITIAL INSPECTION

Inspection of All Components – Receipt of assembled bed

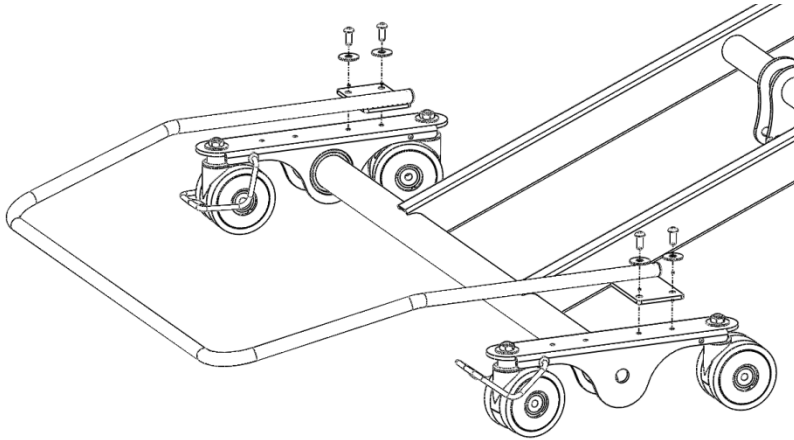
- Check bed components for obvious damage.
- Inspect power supply cords for cuts and/or damage.
- Check that actuator cords are connected properly to the controller.
- Verify proper functionality of all features ONCE ASSEMBLED.

ASSEMBLY

WALL BUMPER INSTALLATION

The wall bumper is designed to prevent damage to facility walls by keeping the head end of the bed spaced off the wall.

- Locate the wall bumper assembly over the two sets of holes in the top of the caster truck closest to the center of the bed.
- Install the (4) 1/4" bolts and washers as shown below, using the included Allen wrench.
- **NOTE:** If installing a trapeze the two sets of mounting holes farthest from the center of the bed should be used.

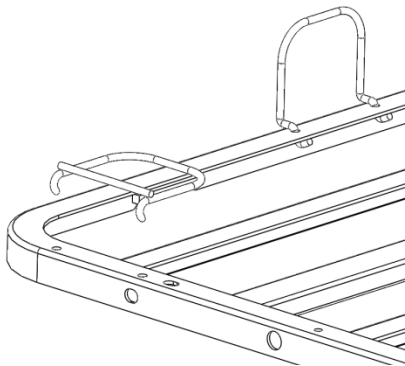


MATTRESS RETAINER INSTALLATION

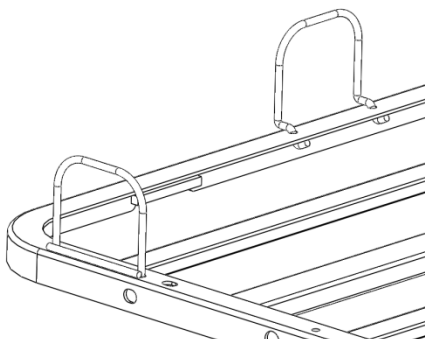
(No tools required)

Mattress Retainers are designed to keep the mattress in place on the sleep surface. Please read this important information on Mattress Retainers and follow instructions on installation.

- Insert 2 ends of retainer into holes on the deck



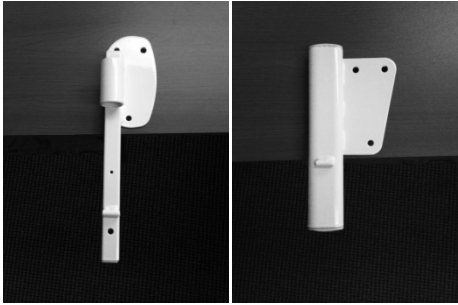
- Rotate mattress retainers outward.



- In total, 6 retainers are required for a bed.
- Place the mattress on mattress support deck, making sure mattress fills length between Mattress Retainer stops. Also, make sure the mattress does not compress more than 1.5" under patient/resident weight.

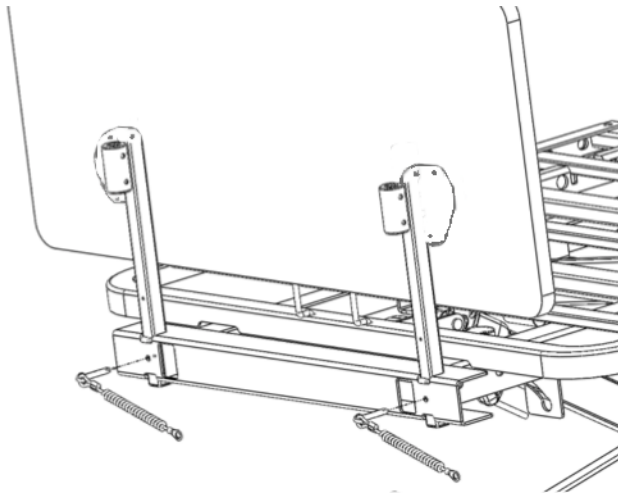
HEADBOARD AND FOOTBOARD INSTALLATION

- Attach the headboard to the headboard bracket (A) using 3 bolts (IV holder facing the outside), Repeat for 2nd bracket. Attach the footboard to the footboard bracket (B) using 3 bolts (NO IV holder), Repeat for 2nd bracket.



(A) Head Board Bracket w/IV Pole Holder (B) Foot Board Bracket

- Insert the Head Board assembly vertically into the square holes at the head end of the bed frame and insert retaining pins.

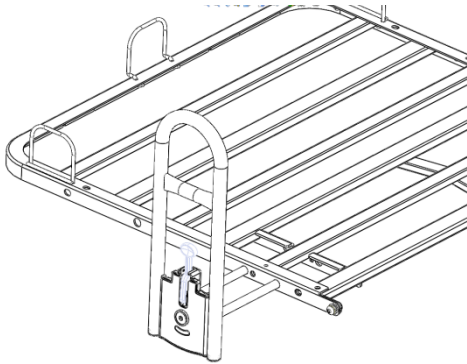


ADDITIONAL INSTRUCTIONS FOR EMBEDDED STAFF CONTROL PANEL EQUIPPED FOOTBOARD (OPTION #15902C only)

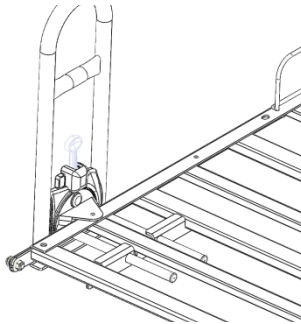
- Route the cable from the control panel toward the control box keeping clear of any areas that could pinch or abrade the cable.
- Secure the cable to the frame in several locations along its length.

ASSIST BAR/RAIL INSTALLATION (OPTION)

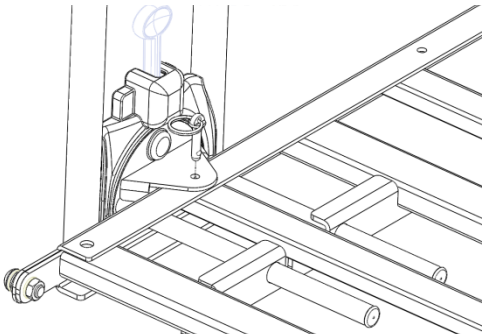
- Slide Assist bar/rail tubes into holes on the side of the head deck.



- Ensure tubes go through the 2nd plate toward the center of the bed.



- Insert the retaining pin through the hole in the assist bar/rail and through the hole in the head deck. (Rotating rails have left and right sides. If you cannot insert the retaining pin into the deck, you may have the wrong side.)



ASSIST BAR



ASSIST BAR / SIDE RAIL WARNING

Other manufacturers assist bars and side rails may not be compatible and can lead to entrapment issues or harm to patients. Only compatible Drive Medical assist bars and rails may be used on this bed. Make sure mattress is the correct size for bed frame and the assist bars are properly secured to frame to decrease the risk of entrapment.



ENTRAPMENT WITH ASSIST BAR

Resident entrapment with assist bars may cause injury or death. To prevent resident entrapment the mattress must fit bed frame and side rails snugly. Please follow the manufacturer's instructions and monitor resident frequently. Please read and understand the owner/user manual prior to placing this bed into service.

If assist bar is positioned incorrectly this may result in RESIDENT ENTRAPMENT. To prevent RESIDENT ENTRAPMENT the bar needs to be placed in the correct area, as shown in the instructions above.



CAUTION

Assist bar position may cause the bed to become UNSTABLE due to the interference between the assist bar and the floor when lowering the bed. An unstable bed may tilt and/or cause property damage or personal injury. Before lowering the bed, ensure the assist bar is in the VERTICAL/UPRIGHT position. When the assist bar is in the lowered position it is recommended that the bar is positioned toward the head of the bed.



CRUSH HAZARD

Crush Hazard when installed on bed. Pinch point exists between the assist bar and the floor at the lowest position which may cause INJURY to oneself or others. Do NOT place feet beneath the assist bar.

SLEEP SURFACE (DECK) WIDTH EXTENSION ASSEMBLY (OPTION) (Tool free Assembly)



- Determine if you will be making the bed frame a 39" or 42" bed frame. Use only (1) Width Extension if a 39" bed frame is required. Use both Width Extensions if a 42" bed is required.
- Remove the deck width extension assemblies from their packaging.
- There are three (3) sections to each side of the Width Extension.
- Line up each extension section with the corresponding holes on the sleep deck and position the extension into the slots on the sleep deck.
- Repeat process for other side if additional width is desired.

NOTE: This optional bed expansion kit expands the bed from 35" wide to 39" wide with one (1) Width Extension and 35" wide to 42" wide with two (2) Width Extensions. It is HIGHLY recommended that a 450 lb. capacity mattress be used, such as a Drive Medical 42" wide Pressure Redistribution Mattress.

HEEL LIFT RATCHET ADJUSTMENT

- With the knee-foot section set at the preferred position, you can raise the manual foot lift section.



- There are six fixed stops on the manual foot lift adjustment that can be set at varying heights.
- The manual foot lift section must be raised slowly to properly engage each stop. The foot lift section will not lower past the nearest engaged stop.

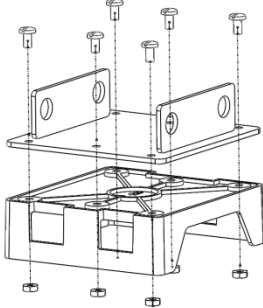


- The foot section of the bed deck cannot be fully lowered without first manually adjusting the foot lift section to its lowest position.
- To reset the ratchet mechanism and lower the manual foot lift section to its lowest position, raise the manual foot lift section to the highest setting and lower it in one motion to the flat position.
- Once in its lowest position, the manual foot lift can once again be raised to the desired height.

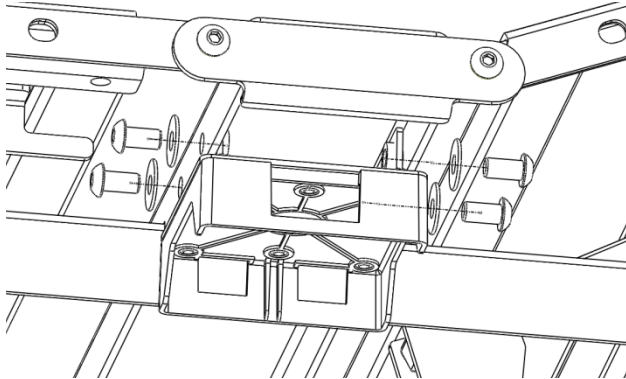
BATTERY BACK-UP *(Option for #15902C only)

Tool List: Phillips Screw Driver and 9mm wrench and socket/driver

- Mount the plastic battery mounting bracket to the steel battery plate using the 6 #8 screws and nuts included.



- Install the battery mounting plate to either side of the center of the bed frame using the 4 3/8" bolts and washers included.



- Slide the battery into place; make sure it is secure into the mounting bracket.
- Attach the cord from the battery into the control box (black color).
- The battery back-up will now work if the bed becomes unplugged from the wall outlet or there is a power failure.



CRUSH HAZARD

Installation of the battery backup creates a possible foot crush hazard. Drive Medical recommends that the battery backup is installed on the side of the bed that is against the wall to minimize this crush hazard.

IMPORTANT INFORMATION ABOUT YOUR BATTERY BACKUP!

- ✓ **The battery backup should be used for EMERGENCY PURPOSES ONLY**
- ✓ **DO NOT use the battery backup to demo or display a bed**
- ✓ **If the battery backup is used, it MUST be recharged before becoming drained and dormant. If the battery is run dead and left for any extended portion of time, the battery can go into HIBERNATION and cannot recover or be recharged.**
- ✓ **Drive Medical cannot be held responsible for improper backup use.**

BED FUNCTIONS



CRUSH HAZARD

Danger Crush hazard. Stay clear of this area during operation

Crush point exists due to LOW BED CLEARANCE. Do NOT place feet or other limbs under the frame when lowering the bed. When lowering the bed, be aware this may cause INJURY if limbs or personal items interfere with bed movement. Stay clear of the frame and ensure children or pets are not under the bed before lowering the bed.

Hand Control Operation: 4 Function Hand Pendant



4 Function Hand Pendant

- Hand held pendant can be plugged into the left or right side of the bed frame for the convenience of the resident.
- 1st Set of Buttons: Head deck up and down.
- 2nd Set of Buttons: Foot deck up and down.
- 3rd Set of Buttons: Auto Contour - raise & lower head & foot decks at the same time
- 4th Set of Buttons: Bed frame up and down.
- When the green light on the pendant is lit this indicates the pendant is in use.

PENDANT LOCATION



ELECTRICAL SHOCK HAZARD

Prior to working with any electrical parts, such as the 13-pin hand held pendant, motor/actuators or control box, make sure the power to the bed frame is disconnected.

- To relocate the pendant to the other side of the bed, raise the bed to the highest position then unplug the main power cord from wall outlet.
- At the opposite end of the Hand Pendant, lift up the locking bracket that holds the pendant cable plug to the frame connection and unplug the pendant cord from the frame connection.
- On the other side of the bed, lift up the cable locking bracket on the frame connection, and line up the cable pins, then carefully push cable plug into the frame connection and push cable locking bracket down around pendant cable plug.
- Plug in main power cord to wall outlet and test pendant functions.

EMBEDDED STAFF CONTROL PANEL OPERATION (OPTION, #15902C only)

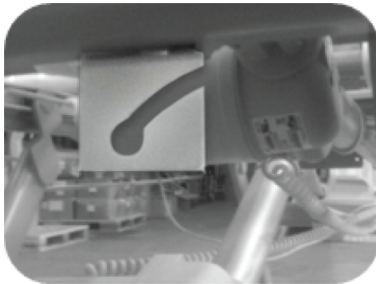
4 Function



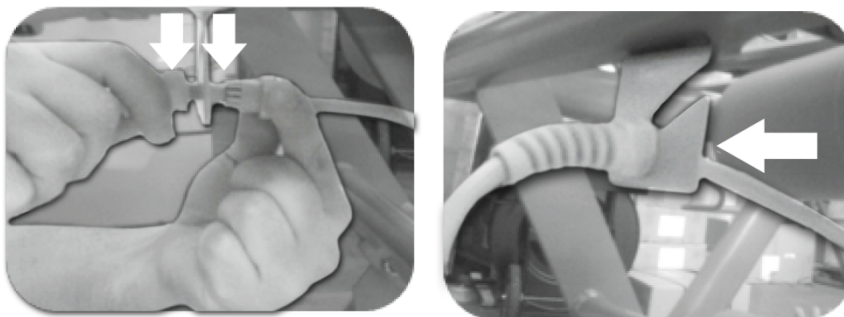
- This controller is located on the footboard
- Locking buttons can be engaged to not allow specific movements.
- The 1st button controls the raising and lowering of the head section.
 - While in the locked position, this panel feature will not work.
- The 2nd button controls the raising and lowering of the foot section.
 - While in the locked position, this panel feature will not work.
- The 3rd button controls the raising and lowering of the head and foot section simultaneously (Auto Contour).
- The 4th button controls the raising and lowering of the bed frame.
 - While in the locked position, this panel feature will not work.

POWER CORD STORAGE

- Power cord strain relief hook is located underneath the bed frame at the head of the bed and keeps the power cord off the floor and protects the power cord from getting severed or run over.
- If the power cord is not in place under the bed, untie the power cord and stretch out toward the head of the bed.



- Unscrew the cap that is attached to the power cord and run cord down through the hook.
- After the cord is through the hook, screw the cap together, this will hold the power cord in place.



NOTE: Disconnect the main power cord from the wall outlet and store the power cord when the bed is not in use. Ensure the power cord is placed on the sleep deck and not hanging off the bed where it may be damaged. Secure the power cord to the head of the bed when moving the bed.

BED MOBILIZATION AND STABILIZATION



WARNING

Involuntary bed movement may take place if the floor lock or bed casters are left unlocked. Involuntary bed movement may lead to property DAMAGE or resident INJURY. Never leave a bed unattended while the floor lock is not engaged.

Floor Lock Operation (#15902C)

- Press the red side of the floor lock lever to engage.
- Press the green side of the floor lock lever to disengage.
- Floor lock system may be operated from either side of the



CRUSH HAZARD

Possible Injury may occur when activating the Foot Lock Mechanism. This feature is designed to be activated by your foot. Using your hand could result in injury.

Caster Lock (#15901C/15902C)

- To lock the head end of the bed use the locking casters at the head end of the bed.
- To lock the casters push down on the caster tabs near the top of the caster, this will prevent the bed from moving.
- The #15901C is equipped with caster locks on the foot end of the bed as well. These locks are engaged and disengaged the same way as the head end caster locks.
- To unlock the casters push up on the caster tabs near the top of the caster, this will allow the bed to move in all directions.



CAUTION

Moving the bed while the floor lock or caster lock is engaged may cause DAMAGE to the bed. Do not move the bed until the floor lock and caster lock are unlocked.

Head End Caster Alignment Mechanism

- Caster Alignment mechanism (Bale) is on either side of the head end caster truck.
- Align caster with the truck body and lower the bale over the caster.
- With the bale in place, the head end of the bed will tend to track in a straight line.

CARE AND MAINTENANCE



CAUTION

If improperly performed, equipment or property DAMAGE or resident INJURY is possible during maintenance.

Cleaning Instructions

- If possible, remove resident before cleaning bed.
- Unplug power supply cords prior to cleaning.
- Ensure all electrical parts (motors, control boxes, pendant and cables) are not broken and all housing components are unplugged. Ensure that NO liquids enter electrical components.
- Remove all gross/solid contaminants, then wash and sanitize all components. DO NOT submerge the bed frame or electrical components.
- Use standard water pressure. DO NOT power wash or steam clean any parts.
- Do NOT use Solvents, alcohol, bleach, caustic agents, high acid or alkaline solutions or petroleum based products to clean the bed surface.
- Rinse completely with water (Maximum temperature 110°F or 43°C).
- Ensure all components are dry before using or storing.

Note: This bed is NOT compatible with wash down tunnels.



WARNING

Failure to properly maintain your bed may decrease the life expectancy of your product and increase product maintenance requirements and costs. ***Always service the bed at the required intervals.***

MAINTENANCE

Inspection of All Components – Receipt of assembled bed

- Check bed components for obvious damage.
- Inspect power supply cords for cuts and/or damage.
- Check that actuator cords are connected properly to the controller.
- Verify proper functionality of all features.

QUARTERLY MAINTENANCE CHECK

- If the bed has a battery, unplug from the wall outlet and validate function. The battery may be built-in or portable.
- Inspect bed and Assist Bars/Rails bolts, if loose tighten and if missing replace.
- Lubricate clevis pins at hinge points.
- Lubricate tracks of bed for smooth travel.

SEMI-ANNUAL INSPECTION

- Perform all Quarterly inspections plus:

Control Box

- Check power cord for chafing, cuts or wear.
- Ensure all attachment hardware and brackets are tight.
- Check electrical connections for wear or fractures.
- Verify that all actuator connections are tight.

Actuators

- Check actuator cords for chafing, cuts or wear.
- Check to make sure actuators do not bind at any point throughout their full range of motion.

Pendant

- Check pendant cord for chafing, cuts or wear.
- Check all pendant buttons for proper function.

Authorized Accessories

- Inspect all fasteners for looseness and wear. Replace or tighten as necessary.
- Ensure proper function of accessory.
- Ensure welds do not have stress fractures.
- Ensure no tubes are bent.


ANNUAL INSPECTION

- Perform all Semi-Annual inspections plus:

Mattress Support Surface, Frame and Base Assemblies

- Inspect welds on the mattress support surface, frame and base assemblies for stress fractures.
- Verify all fasteners are tight.
- Inspect fasteners for wear or damage.
- Inspect bed and Assist Bars/Rails bolts, if loose tighten and if missing replace.
- Lubricate clevis pins at hinge points.
- Lubricate Hi/Lo tracks of bed for smooth travel.

Actuators

- Inspect push tubes and end connections of all actuators for excess wear or bending.
 - Verify that all clevis pins are in place.
- 

Casters

- Check that locks on casters lock properly (if equipped).
- Check that all casters roll properly.
- Check Floor Brake mechanism for proper function (roll at any height model).
- Check head end caster alignment (Bale) mechanism to verify proper function (roll at any height model).

NOTICE TO MAINTENANCE STAFF

- Carry out all adjustment and cleaning procedures as specified.
- Assembly of this bed and modifications made during the actual service life require evaluation to the requirements of IEC 60601-1 and IEC 60601-2-38.

SERVICING

Actuators and Control Box are light gray.



ELECTRICAL SHOCK HAZARD

Possible Shock Hazard may occur if the Control Box is not unplugged from the wall outlet before any maintenance is performed on Motor or Control Box.

ACTUATORS AND CONTROL BOX INFORMATION

Cord and Socket Identification

- Attendant Control (Green)
- Hand Held Pendant (Red)
- Head Section Motor (Black)
- Foot Section Motor (Yellow)
- Hi/Lo Motor (Blue)
- Battery Back-Up (Black)

Removing Control Box

- Unplug main power supply from the wall outlet
- Unplug connections for all actuators and accessories
- Separate the control box from the actuator
- Reinstall the control box on the actuator
- Plug all connections back into control box following color coding
- Test function

Replacing Actuators

- Unplug power supply cord from the wall outlet
- Identify the actuator to replace
- Tip bed on its side to remove the Hi/Lo actuators
- Unplug actuator cord from control box
- Actuator is held in place by (2) clevis pins
- Remove bowtie clips from clevis pins
- Slide the clevis pins out of the holes
- You can now replace the actuator
- To reassemble bed, reverse previous steps, and make sure to:
 - Assemble clevis pins as originally installed with bowtie clips
 - Zip ties should be replaced, with cords to their original position and routing direction to the control box

Replacing the AC Power Cord

- Unplug power cord from wall outlet
- Unplug the power cord from the control box
- Remove tie-wraps holding power cord in place on frame
- Plug the new power cord into the control box
- Route the new power cord in the same manner as the original cord ensuring use of strain relief device
- Replace tie-wraps to hold power cord to frame
- Plug power cord back into wall outlet

END OF LIFE DISPOSAL

- Many components of this product may be recycled.
- Please dispose of non-recyclable items properly.



TROUBLE SHOOTING GUIDE



WARNING Before doing any repairs or maintenance to the bed frame, read all instructions, cautions, and warnings. The repairs should be done by a skilled technician.

Effect	Possible Cause	Verification	Corrective Action
Bed does not stay in place	Floor lock is not engaged	There may be an object in-between the floor and casters, the floor may be slippery	Activate Floor Lock Clean the floor; remove any objects that may be in the way. Make sure the floor is dry. Contact an Authorized Distributor or Drive Medical for assistance. 1-800-371-2266.
	Floor lock is not functioning	Floor lock stuck in one position	
Bed not steering correctly	Bed is only moving straight forward not side to side	Caster alignment mechanism (Bale) is down	Lift caster alignment mechanism (Bale) up and bed will move in desired direction Push caster alignment mechanism (Bale) down and bed will move straight
	Bed is moving side to side	Caster alignment mechanism (Bale) is up	
Actuators not working	Wire connections may be loose or damaged	Visually check wire connections for looseness or fraying	Reconnect any loose wires and/or power cords. If cord is frayed replace immediately Unlock panel by pushing lock button and light should go off Contact an Authorized Distributor or Drive Medical for assistance. 1-800-371-2266.
	Hi/Lo lockout may be on	The light on the attendant control panel is on	
	Faulty actuator	Disconnect power cord from bed that is not functioning and use on another bed that is functioning, Reconnect the power and test functions on that bed. A faulty actuator will not work with any connection port	
Bed stalls while operating	Thermal shut down	Bed works for a short period of time then cuts out. Check for obstructions or any interference with bed frame, such as window sill or too much weight on bed frame.	Wait a period of time before using the bed frame again. DO NOT keep trying to override this as it will shorten the life of your product. Bed is intended to be used for 2 min then allowed to rest for 20 min.

	Faulty pendant.	Check pendant cord connection, power supply, Hi/Lo lockout is off and pendant is not functioning. Disconnect pendant cord connection with a functioning pendant if available. Connect and test functions.	Contact an Authorized Distributor or Drive Medical for assistance. 1-800-371-2266
--	-----------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------



Drive Medical Warranty

Drive Medical's #15901C , #15902C Long Term Care Beds are guaranteed for a 3 year period from the date of delivery. This guarantee is against defects in materials and craftsmanship, under normal use and service.

This 3-year warranty includes electrical and mechanical parts and components. Bed mounted accessories and Head/Foot boards are covered for 1 year. Welds are covered under a limited lifetime¹ warranty of the product. Steel structural components are covered under the 15-year warranty from the date of delivery. During the warranty period, defective items will be repaired or replaced at Drive's option at no charge.

- ✓ Limited Lifetime warranty on welds.
 - ✓ 15 year warranty on structural steel frame.
 - ✓ 3 year warranty on electrical and mechanical parts and components.
 - ✓ 1 year warranty on all other parts and components.
-
- The Premier bed should only be used for its intended purpose and must be maintained and serviced in accordance with the instructions contained in this User Manual
 - This warranty will not apply if damage or mechanical failure is caused by abuse, improper assembly/ use/cleaning/repair, accident, negligence, unauthorized alteration, or use in inappropriate environmental conditions, or failure to maintain the product consistent with user and service instructions.
 - Any change, adjustments, or repair not performed by an Authorized Distributor or technician, will void the warranty.
 - This warranty is extended only to the original owner who purchased this product new and unused from Drive Medical or a Drive Medical Authorized dealer/Distributor. Warranty is not extended and is not transferable or assignable to any subsequent purchaser or future owners.
 - Drive Medical's liability shall not exceed the original purchase price of this product.
 - Any Repair work or replacement components provided shall not extend the warranty beyond the original warranty period.
 - Request for Warranty coverage must be accompanied by valid serial number from the bed. Coverage is void if serial number has been removed, defaced, or altered.

¹ Weld life time defined as 20 years from date of delivery



PARTS

Long Term Care beds contain a variety of parts that wear from normal use. Some products are not covered under the 3-year warranty but do fall under the 90-day warranty, such as DC batteries. Drive Medical's responsibility under this warranty is limited to supplying replacement parts, servicing or replacing, at its option, which is found to be faulty by Drive Medical.

Warranty replacement parts are covered by the warranty until the product's 3-year warranty period expires. For warranty replacement, Drive Medical may request that broken parts be sent back to them for evaluation. A credit will be issued only after the inspection.

SERVICE

A majority of service requests can be handled by the facility maintenance department with assistance from the Authorized Distributor's technical support dept.

Most parts can be shipped next day air at the customer's expense.

Bed Frame Serial Numbers

When ordering parts or contacting an Authorized Distributor's Customer Service Department, please include bed's model and serial numbers, found on the identification labels. The identification labels are located under the sleep deck on the frame rail below the head section on either side of the bed.

Made in China

Drive Medical Design & Manufacturing

99 Seaview Blvd
Port Washington, NY 11050
Phone: 1.877.224.0946
Fax: 516.988.4601
www.drivemedical.com



APPENDIX

SPECIAL NOTE

For your convenience, we have provided the January 2008 addition of the FDA's guide to bed safety. This information from the FDA's brochure, published by Hospital Bed Safety Workgroup, is replicated verbatim; the latest version is available at <http://www.fda.gov>.

A Guide to Bed Safety Bed Rails in Hospitals, Nursing Homes and Home Health Care: The Facts

Bed Rail Entrapment Statistics

Today there are about 2.5 million hospital and nursing home beds in use in the United States. Between 1985 and 2008, 772 incidents of residents* caught, trapped, entangled, or strangled in beds with rails were reported to the U.S. Food and Drug Administration. Of these reports, 460 people died, 136 had a nonfatal injury, and 176 were not injured because staff intervened. Most residents were frail, elderly or confused.

**NOTE: In this brochure, the term resident refers to a resident of a nursing home, any individual receiving services in a home care setting, or residents in hospitals.*

Resident Safety

Residents who have problems with memory, sleeping, incontinence, pain, uncontrolled body movement, or who get out of bed and walk unsafely without assistance, must be carefully assessed for the best ways to keep them from harm, such as falling. Assessment by the resident's health care team will help to determine how best to keep the resident safe.


Historically, physical restraints (such as vests, ankle or wrist restraints) were used to try to keep residents safe in health care facilities. In recent years, the health care community has recognized that physically restraining residents can be dangerous. Although not indicated for this use, bed rails are sometimes used as restraints. Regulatory agencies, health care organizations, product manufactures and advocacy groups encourage hospitals, nursing homes and home care providers to assess residents' needs and to provide safe care without restraints.

The Benefits and Risks of Bed Rails

Potential benefits of bed rails include:

- Aiding in turning and repositioning within the bed.
- Providing a hand-hold for getting into or out of bed.
- Providing a feeling of comfort and security.
- Reducing the risk of residents falling out of bed when being transported.
- Providing easy access to bed controls and personal care items.

Potential risks of bed rails may include:

- Strangling, suffocating, bodily injury or death when residents or part of their body are caught between rails or between the bed rails and mattress.
 - More serious injuries from falls when residents climb over rails.
 - Skin bruising, cuts, and scrapes.
 - Inducing agitated behavior when bed rails are used as a restraint.
 - Feeling isolated or unnecessarily restricted.
 - Preventing residents, who are able to get out of bed, from performing routine activities such as going to the bathroom or retrieving something from a closet.
- 

Meeting Resident's Needs for Safety

Most residents can be in bed safely without bed rails. Consider the following:

- Use beds that can be raised and lowered close to the floor to accommodate both resident and health care worker needs.
- Keep the bed in the lowest position with wheels locked.
- When the resident is at risk of falling out of bed, place mats next to the bed, as long as this does not create a greater risk of accident.
- Use transfer or mobility aids.
- Monitor residents frequently.
- Anticipate the reasons residents get out of bed such as hunger, thirst, going to be the bathroom, restlessness and pain; meet these needs by offering food and fluids, scheduling ample toileting, and providing calming interventions and pain relief.

When bed rails are used, perform an on-going assessment of the resident's physical and mental status; closely monitor high-risk residents. Consider the following:

- Lower one or more sections of the bed rail, such as the foot rail.
- Use a proper size mattress or mattress with raised foam edges to prevent residents from being trapped between the mattress and rail.
- Reduce the gaps between the mattress and side rails.

Which Ways of Reducing Risk are Best?

A process that requires ongoing resident evaluation and monitoring will result in optimizing bed safety. Many residents go through a period of adjustment to become comfortable with new options. Residents and their families should talk to their health care planning team to find out which options are best for them.

Resident or Family Concerns About Bed Rail Use

If residents or family ask about using bed rails, health care providers should:

- Encourage residents or family to talk to their health care planning team to determine whether or not bed rails are indicated.
- Reassure residents and their families that in many cases, the resident can sleep safely without bed rails.
- Reassess the need for using bed rails on a frequent regular basis.

To report an adverse event or medical device problem, please call FDA's MedWatch Reporting Program at 1-800-FDA-1088.

For additional copies of this brochure, see the FDA's website at <http://www.fda.gov/cdrh/beds/>. For more information about this brochure, contact Beryl Goldman at 610-335-1280 or by e-mail at bgoldman@kendaloutreach.org. She has volunteered to answer questions. For information regarding a specific hospital bed, contact the bed manufacturer directly.



Developed by the Hospital Bed Safety Workgroup

- AARP
- ABA Tort and Insurance Practice Section
- American Association of Homes and Services for the Aging
- American Health Care Association
- American Medical Directors Association
- American Nurses Association
- American Society for Healthcare Engineering of the American Hospital Association
- American Society for Healthcare Risk Management
- Basic American Metal Products
- Beverly Enterprises, Inc.
- Care Providers of Minnesota
- Carroll Healthcare
- DePaul College of Law
- ECRI
- Evangelical Lutheran Good Samaritan Society
- Hill-Rom Co., Inc.
- Joerns Healthcare, Inc.
- Joint Commission on Accreditation of Healthcare Organizations
- Medical Devices Bureau, Health Canada
- National Association for Home Care
- National Citizens' Coalition for Nursing Home Reform
- National Resident Safety Foundation
- RN+ Systems
- Stryker Medical
- The Jewish Home and Hospital
- Untie the Elderly, The Kendal Corporation
- U.S. Food and Drug Administration

Updated January 2008

