

Delta 1000

Ultra Light Plus, Full Electric Low Bed

Item # 15235

Owner's Assembly And Operating Manual



TABLE OF CONTENTS

Standard Symbols & Warning Labels..... 1-3

Intended Use & General Safety 4-6

Electromagnetic Emmissions & Immunity..... 8

Technical Specifications..... 9-10

Packaging and Handling..... 11

 Unpacking, Inspection, Storage 11

Assembly Instructions 12-14

Frame Assembly 15-19

Bed Operation 20-21

Bed Rail Installation 22-24

Emergency (Power Outage) Manual Adjustment Crank 25

Maintenance & Safety Checks..... 26-27

Warnings 28-29

Troubleshooting 30

Appendix: A Guide to Bed Safety Bed Rails 31-32

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.

Product features can change without notice.

STANDARD SYMBOLS USED IN THIS MANUAL

This manual includes important information about the safety of personnel and equipment. As you read through this manual be aware of the symbols and their meanings.



DANGER

Information that appears under the DANGER symbol 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.



DANGER SHOCK HAZARD

Information that appears under the DANGER SHOCK HAZARD symbol concerns the protection of personnel from possible hazards related to electrical shock.



FIRE HAZARD

Information that appears under the FIRE HAZARD symbol concerns the protection of personnel from possible hazards related to fire and flammability.



WARNING

Information that appears under the WARNING symbol concerns the protection of personnel from possible hazards that can result in injury or death in addition to damage of the equipment.



CAUTION

Information that appears under the CAUTION symbol concerns the protection of personnel from possible hazards that may result in minor injury or damage of the equipment.





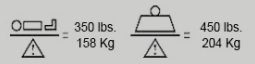
CRUSH HAZARD

Information that appears under the CRUSH HAZARD symbol concerns the protection of personnel from possible hazards related to reduce clearances.





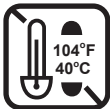


NOTE:

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


PRODUCT SYMBOLS

| Symbols | Description | Symbols | Description |
|---|---|--|--|
|  | Class II equipment | | |
|  | The owner's manual needs to be read before operating the bed. |  | Maximum patient weight and safe working load |

PRODUCT HANDLING SYMBOLS


| | |
|---|---|
|  | Do not remove motor cover or repair yourself. Contact your local Provider or Dealer for technical assistance. |
|  | Do not stack more than 5 cartons high |
|  | Do not step |
|  | Keep Dry |
|  | Do not exceed 104 degrees F |
|  | Do not leave in direct sun light for extended period of time |
|  | Handle with care |

WARNING LABELS



WARNING

Incompatible ASSIST RAILS can create hazards.
READ INSTRUCTIONS FOR USE.



WARNING

Incompatible MATTRESSES can create hazards.
READ INSTRUCTIONS FOR USE.



WARNING



Mattress must fit Bed Frame and Assist Rail snugly to help prevent patient entrapment. Patient entrapment with Assist Rail may cause injury or death. Please follow the manufacturer's instructions and monitor patient frequently. Please read and understand the Owner/Operator Manual prior to using this bed.



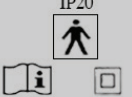

WARNING


This bed is not designed to be used for patient transport


Product Name: Full Electric Low Bed
Model: 15235
Rated Input: 120V~, 60Hz, 3A max
Duty Cycle : T_ON 2min / T_OFF 18min

 = 350 lbs. 158 Kg  = 450 lbs. 204 Kg

IP20

  Drive Devilbiss Healthcare
99 Seaview Boulevard
Port Washington, NY 11050

 **DANGER** Due to the risk of electric shock, do not attempt to open motor enclosure.

 **CAUTION** Please read the manual carefully before using this product.

INTENDED USE

The Drive #15235 homecare bed is intended for use within a homecare environment. Application Environment 4 (i.e. care provided in a domestic area where ME Equipment is used to alleviate or compensate for an injury, disability or disease).

Beds are NOT intended for patient/resident transport. Wheels are provided only to allow movement within the patient/resident room for cleaning or patient/resident access.

CONTRA-INDICATIONS

Electric beds should not be operated (control the movements of the bed through the control interfaces) by persons who do not have the cognitive skills to understand the information in the owner's manual or cannot understand and perform the proper operation of the bed. This bed should not be used or operated by children.

GENERAL SAFETY

NOTE: In this manual, the terms patient and resident refer to a resident in a homecare environment.



WARNING

- NEVER allow anyone under the bed at any time.
- DO NOT let any body parts protrude over the side or between parts, especially when the bed is being operated.
- Electric beds should not be placed in an oxygen enriched environment.
- Unplug electric beds or stop pressing pendant button when bed does not function as expected.
- DO NOT operate this product without first reading and understanding this user manual. Damage or injury may result from improper use of this product.
- Possible injury or Death may occur if accessories are not provided by Drive DeVilbiss Healthcare. Please contact Drive DeVilbiss Healthcare for accessories that are compatible with this bed.
- Possible injury or Death may occur if replacement parts are not provided by Drive DeVilbiss Healthcare. Please contact Drive DeVilbiss Healthcare for replacement parts compatible with this bed.



WARNING

- Power cord on electric beds must be plugged into appropriate wall outlet, ensuring it can be unplugged easily in case of an emergency.
- Never permit more than one (1) person in/on the bed at any time. Never exceed the weight capacity of this bed. The weight capacity of this bed is **450lbs (205kg)** including accessories and options (not all accessories and options can be used at the same time). Once resident's weight is known (X), subtract that from 450 lb total weight capacity (Y) and remainder is allowable weight for mattress, accessories and optional equipment (Z). ($Z = Y - X$)

| | | |
|----------|-------------------------------|---------------------|
| Assumes: | Max Patient/resident Weight | 350 lbs (158.76 kg) |
| | Full or Half Rails (avg/pair) | 25 lbs (11.34 kg) |
| | Mattress weight (avg) | 25 lbs (11.34 kg) |
| | Trapeze | 26 lbs (11.79 kg) |

- The medical bed should be left in its lowest position except when care is being provided in order to reduce risk of injury due to falls.
- Electric beds **MUST** be connected to an appropriate power source. Mains cable and proper function must be checked regularly.
- Possible Injury or Death may occur if bed is pushed over abrupt thresholds while bed is occupied. **Beds are not intended for patient/resident transport.** Please use an approved resident transport device when moving a resident.



DANGER SHOCK HAZARD

- DO NOT plug anything into the control box of bed (i.e. pendants and actuators) while mains cable (power cord) is plugged into the wall outlet.
- Any cords or 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.
- DO NOT roll the bed over any power or pendant cords.
- DO NOT open any actuators, control boxes, or pendants. Service and repair must only be performed by authorized service personnel. If unauthorized service is performed on any components the warranty is void.
- Inappropriate handling of power supply cords can create a shock hazard.
- When routing cables from other equipment in the medical bed, precautions shall be taken to avoid squeezing those between parts of the medical bed.
- DO NOT allow the cord, electrical outlets, and 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.
- The bed MUST be connected to an appropriate power source. Mains cable and proper function must be checked regularly.
- Possible injury or Death may occur due to pendant cord being a source for entangling patient/resident. Patients/ residents with decreased mental acuity should NOT have access to pendant.



FIRE HAZARD (15005LP & 15004P - Electric Beds Only)

- DO NOT use near open flame or explosive gases.
- Possible Fire Hazard if used with nasal mask in 1/2 bed tent O2 administering equipment. If O2 tent is being used it should not fall below the mattress deck. The pendant should not be placed in an oxygen enriched environment such as an O2 tent.
- This bed should not be placed in an oxygen enriched environment.



CAUTION

- These medical beds are not intended to work with patient lifts other than those specified by Drive DeVilbiss Healthcare as being compatible.
- Do NOT use side rails as handles for moving the bed.
- Keep all moving parts, including the mattress deck (sleep surface), main frame, all drive actuators and moving components free of obstructions.
- Ensure that the individual using this bed is properly positioned, particularly when the bed is being operated.
- 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 resident in repositioning or transferring in or out of bed.
- Supervision is required when this product is operated by or near children or people with disabilities.
- Do not modify this bed without authorization of the manufacturer. If unauthorized service is performed on any components the warranty is void.



CRUSH HAZARD

- Possible crush hazard exists between the bed deck and frame. Keep hands and feet out from under the bed deck at all times while operating the bed.
- Possible Injury may occur when lowering or raising the bed. Keep feet and hands clear of bed frame.
- Do not put your hands/fingers into the opening of head or thigh deck edges, crush point may cause injury to your hands/fingers.



ENTRAPMENT WARNING

- The entrapment issues can still arise when components and accessories are not properly installed.
- If a resident/patient's mental or physical condition could lead to resident/patient entrapment, the mattress deck (sleep surface) should be left in the flat position when unattended. Failure to do so could result in injury or death.
- Incompatible mattress and side rails can create hazards. Only compatible Drive DeVilbiss Healthcare side rails may be used on this bed. Make sure mattress is the correct size for bed frame and the Side rails are secured to frame to decrease the risk of entrapment.
- 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.



WARNING

Incompatible mattress and side bars/rails can create hazards. Read instructions for use.

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 standard 36" wide mattress that is made to fit an 80" or 84" (extension) length bed frame is used, such as a Drive DeVilbiss Healthcare standard inner spring, foam, fiber, or pressure redistribution mattress. Mattress height must be a minimum of 5-1/2 inches and a maximum of 7 inches.
- Also available are Drive DeVilbiss Healthcare's assortment of mattress overlays and Low Air Loss flotation mattress systems.

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.

Below cables information are provided for EMC reference

| Cable | Max. cable length, Shielded/unshielded | | Number | Cable classification |
|---------------|---|------------|--------|----------------------|
| AC Power Line | 3.8m | Unshielded | 1 Set | AC Power |



WARNING

Important information regarding Electro Magnetic Compatibility (EMC)

FULL ELECTRIC & SEMI ELECTRIC BEDS require special precautions regarding EMC when put into service according to the EMC information provided in the user manual and special precautions need to be observed:

FULL ELECTRIC & SEMI ELECTRIC BEDS with no ESSENTIAL PERFORMANCE is intended for use in a professional healthcare facility environment and homecare environment.

WARNING: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the SEMI ELECTRIC BED WITH MANUAL LEG ADJUST, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

The use of accessories and cables other than those specified by Drive DeVilbiss Healthcare, with the exception of accessories and cables sold by Drive DeVilbiss Healthcare for use with the FULL ELECTRIC & SEMI ELECTRIC BEDS as replacement parts for internal components, may result in increased EMISSIONS or decreased IMMUNITY.

WARNING: Use of this FULL ELECTRIC & SEMI ELECTRIC BEDS adjacent to or stacked with other equipment should be avoided because it could result in improper operation.



ELECTRICAL SAFETY WARNINGS

A safety feature of this product includes protection against overheating caused by excessive or extended periods of operation. Depending on the duration, this includes multiple or repeated adjustments or the use of multiple functions at one time. To ensure trouble free operation, always allow a slight pause between multiple adjustments and avoid pressing more than one function button at a time. If thermal protection activation should occur, the bed will not respond to pendant commands. Given this situation, release the pendant button and allow the bed unit to sit for several minutes. This will allow the protection function time to reset and restore bed function. Depending on severity of the initial overheating, this could take up to 30 minutes.

Allow a slight pause between adjustments and avoid pressing multiple buttons at the same time. If pendant buttons are depressed too rapidly or multiple buttons are pressed at the same time, the desired feature may not activate. Simply release the pendant button, permit a slight pause and then activate the next operation.

Always unplug the bed from the electrical outlet before cleaning.

DO NOT open assemblies such as the motors, motor housing or pendant. No user serviceable parts are inside. Only qualified technicians are permitted to repair these parts. If unqualified individuals perform any work on these beds, the warranty is void.

DO NOT place pendant under or between objects. This may unintentionally press the buttons and may cause injury or damage.

Electronic equipment may be influenced by Radio Frequency Interference (RFI). Caution should be exercised with regard to the use of portable communications equipment in the area around such equipment. If RFI causes erratic behavior, unplug the electric bed IMMEDIATELY. Leave unplugged while transmission is in progress.

Ensure all cables and cords are routed such that they will not become entangled or pinched. Otherwise damage or injury may result.

If a button on the pendant sticks or does not release and/or one of the functions will not stop moving. Unplug the power cord from the electrical supply outlet and take the bed out of service for repair.

If a liquid is spilled in or around the electric bed, unplug the electric bed before cleaning. Clean up the spill and allow the electric bed or the area around the electric bed to dry thoroughly before using the electric controls again.

Inspect the covering of the hand pendant panel to assure that the covering is not cracked or damaged.

Keep all electrical cords away from heated or hot surfaces.

Keep the cord away from heated surfaces.

NEVER operate this bed if it has a damaged cord or plug, if it is not working properly, if it has been dropped, damaged, or dropped into water. Return the bed to a service center for examination and repair.

On Full & Semi Electric beds, the Hi/Lo crank MUST be removed before the bed is used. Failure to remove the crank may cause damage or personal injury.

Refer servicing to qualified personnel only. Grounding reliability depends upon a properly grounded wall outlet.

The pendant and power cords must be routed and secured properly to ensure that the cords DO NOT become entangled, pinched and/or severed during operation of the electric bed.

Unplug from the outlet before servicing. Unplug the power cord from its power source before performing any maintenance on the manual/electric bed.

Use caution when disconnecting the pendant. DO NOT press pendant buttons.

When bed is not to be used for an extended period, unplug electric bed from the wall outlet.

When using an extension cord, use an extension cord having at least 16 AWG (American Wire Gauge) wire and the same or higher electrical rating as the device being connected. Use of improper extension cord could result in a risk of fire and electric shock.

When using nasal or masked type oxygen administering equipment, the oxygen or air tubing MUST be routed and secured properly to ensure that the tubing does not become entangled and/or severed during normal operation of the bed.

DO NOT use Full & Semi Electric beds near explosive gases.

Possible fire hazard when used with oxygen administering equipment other than nasal or masked type.

Use masked or nasal type oxygen administering equipment only in conjunction with this bed. The use of ANY other type of oxygen administering equipment can result in a fire hazard.

TECHNICAL SPECIFICATIONS

| | |
|---|---|
| | 15235 |
| Overall Length | 87.99" |
| Overall Width w/o Rails | 36.22" |
| Overall Width w/Rails | 38.58" |
| Length & Width of Mattress Deck | 79.53" x 34.65" |
| Maximum Weight Capacity | 350 lbs Patient Wgt/ 450lbs. includes all accessories |
| Head Deck Angle | 0°to 70° |
| Foot Deck Angle | 0°to 46° |
| Height Range | 9.5" - 22.5" |
| Under Bed Clearance | 3.3" |
| Total Product Weight (lbs.) | 164 |
| Head Section & Foot Section | 97 |
| Head End & Foot End | 67 |
| Noise Level | ≤65dB(A) |
| Electrical Requirements | 120VAC,60Hz |
| Rated Current Input | 3A max |
| Fuse Specification | 2A 250V |
| Duty Cycle | T_On 2 Min / T_Off 18 Min |
| Battery Backup | N/A |
| Relative Humidity | 15% to 93% relative humidity, non-condensing |
| Recommended Storage &Shipping Temperature | -22°F to +158°F |
| Recommended Operating Temperature | 41°F to 104°F |
| Atmospheric Pressure Range | 700hPa to 1060hPa |

| Component Item # | Description | Shipping Weight (lbs) | Length (inch) | Width (inch) | Height (inch) |
|------------------|---|-----------------------|---------------|--------------|---------------|
| 15536 | Head/Foot Spring for 15033, 15235 | 104.1 lbs | 45.8 | 37.9 | 9.7 |
| 15538 | Head/Foot Board w/ Motor & Hand Control, 15235N | 72.25 lbs | 37.8 | 7.5 | 29.9 |

PACKAGING / HANDLING

OPERATING TEMPERATURE

If bed has been stored in an area where the temperature is above or below the Recommended Operating Temperature range of 41°F to 104°F. You must wait at least 30 minutes for the bed temperature to adjust to the Recommended Operating Temperature range of 41°F to 104°F before use.

BED SERIAL NUMBERS

When ordering parts or when contacting Drive DeVilbiss Healthcare Customer Service Department, please include bed's model and serial numbers, found on the identification labels as below. The identification labels are located under the sleep deck on the either side of the bed frame.

COMPLIANCE INFORMATION

Matching the correct bed components to meet regulatory specifications can be complicated. Drive DeVilbiss Healthcare offers a wide variety of compliance options and we can assist your facility in selecting components or accessories that are recommended for the specific bed model.

TOOLS REQUIRED

- Wire Cutters
- Utility Knife



CAUTION

Unpack the bed in an area with sufficient room to work. Do not allow residents/patients near the bed until it has been completely set up and the work area has been cleared of all debris.

UNPACKING

1. Check cartons for any obvious damage to packaging or contents. If damage is evident, contact your local Drive Medical dealer/provider.
2. Remove any loose packaging from the cartons.
3. Carefully remove all components from the cartons.

Packaging

The Two Cartons will contain the following components:

- | | |
|---------|---|
| #15536 | Head/Foot Spring for 15033, 15235 |
| #15216P | Head/Foot Board w/ Motor & Hand Control, 15235N |

INSPECTION

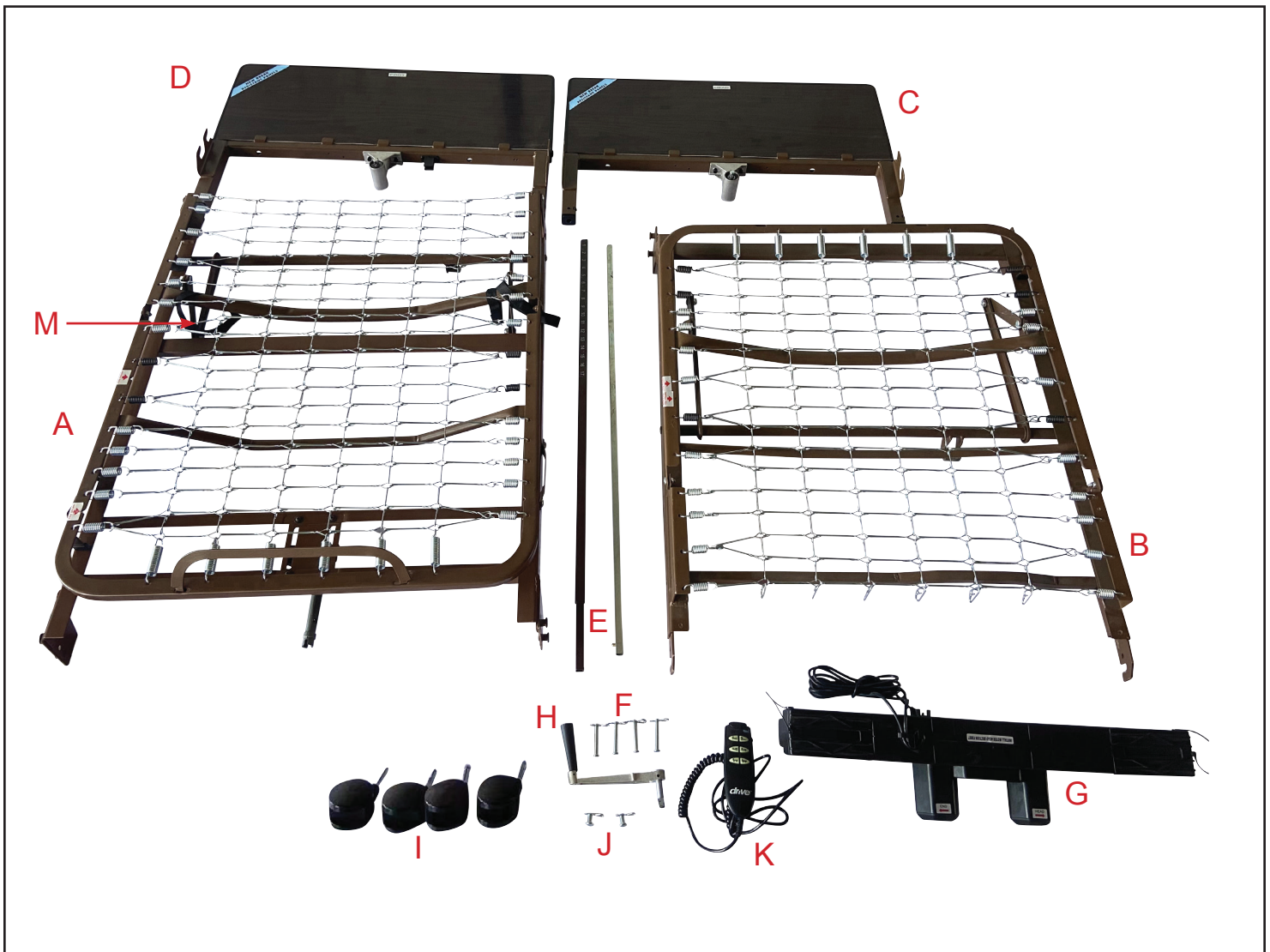
1. Examine each component carefully for damage, scratches, dents or any other visual damage.
2. Carefully remove Tie Wraps holding power cord, hand pendant and drive shaft.
3. Inspect power cord and plug for cuts or damage.
4. Inspect the motors for damage, loose connections, cuts or damage to the wires.
5. Ensure motor connection to junction box and pendant are connected correctly and secure.

STORAGE

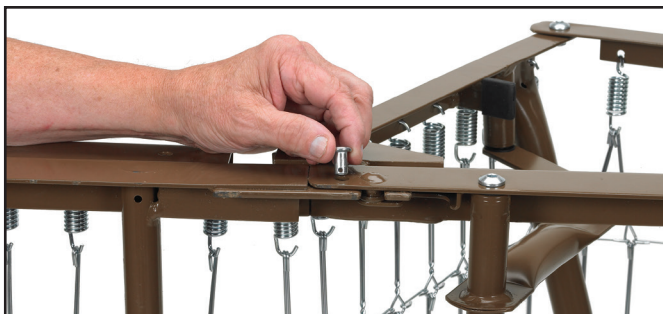
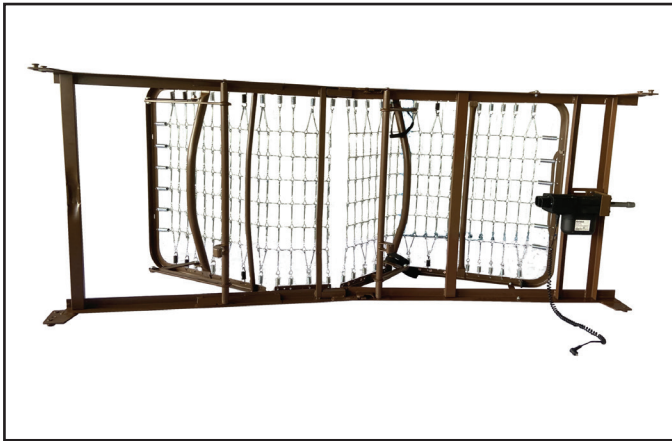
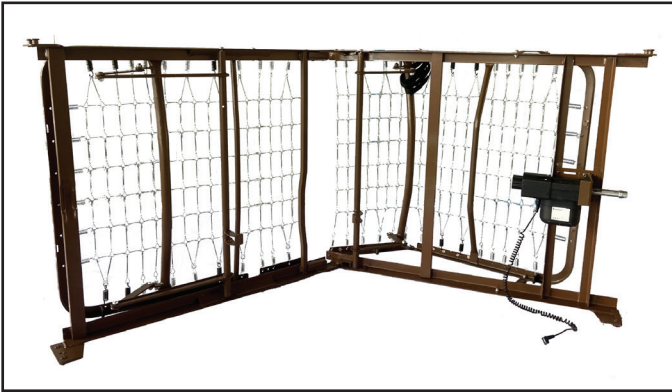
1. If the bed is not assembled immediately, retain cartons and packaging for storage until assembly is completed.
2. Store the packaged bed in a dry area.
3. DO NOT place other objects on top of the packaged bed cartons.

ASSEMBLY INSTRUCTIONS

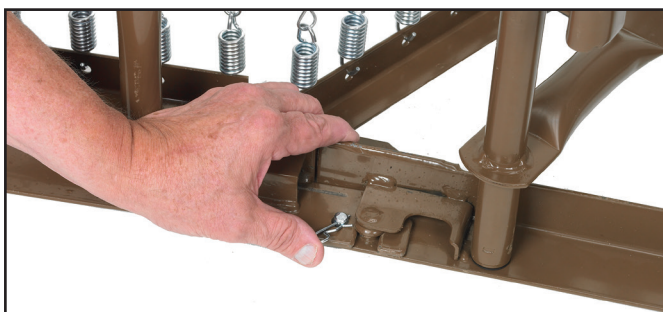
1. Confirm that all parts are present.
 - A. Foot Spring
 - B. Head Spring
 - C. Head Board
 - D. Foot Board
 - E. Hi/Low Shaft
 - F. Locking Pins
 - G. Motor
 - H. Hand Crank (attached to foot board for shipping)
 - I. Casters (4) - 2 locking, 2 non-locking
 - J. Spring Clips (2)
 - K. Hand Pendant
 - L. Full Electric Motor
 - M. Motor Transport Straps



2. Connect the head spring by aligning with foot spring and swinging both ends away from each other.

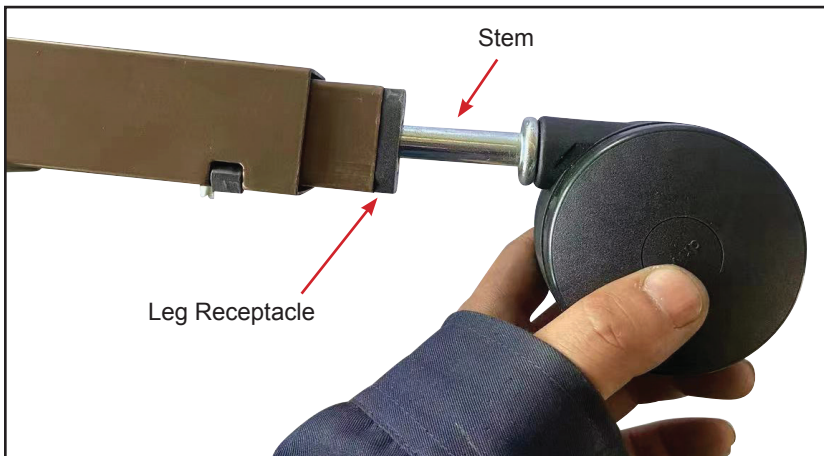


3. Optional: Insert lock pin through connected sleep surface and secure with spring clip.





4. Connect head section and foot section by squeezing together and attaching with spring links. Pull up the head section and foot section to release tension between the springs.



5. Install the casters by inserting the stem of the caster into the leg receptacle. It is recommended to install 1 locking caster and 1 non-locking caster on each bed end. The locking casters should be installed diagonally from each other.



6. Attach the head board and foot board as shown.
 - a. NOTE: Head and Foot boards are the same height. Note position of the embossed "HEAD" and "FOOT" labels on top and sides of the bed ends for proper assembly. The head and foot boards are interchangeable with each other, with all other Drive, and other manufacturers head and foot boards.

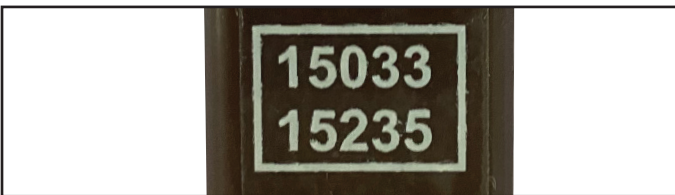




7A. The Hi/Low shaft consists of two sections that are shipped unassembled. The inner shaft has a positioning spring button, and the outer shaft has positioning holes that are labeled with various bed model numbers.



7B. Insert the inner Hi/Low shaft section into the outer Hi/Low shaft section.

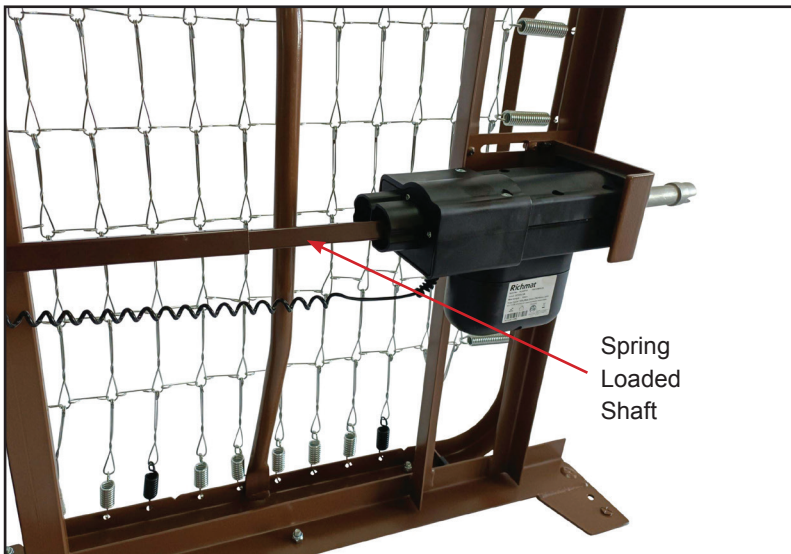


7C. Locate the positioning hole labeled 15033/15235, and adjust the positioning spring button until it lines up with the 15033/15235 positioning hole.



7D. The Hi/Low shaft is now assembled and ready for to be attached to the bed frame.

8. With bed on its side, install the Hi/low shaft to the gear box located on the foot end of the bed, beneath the spring deck.



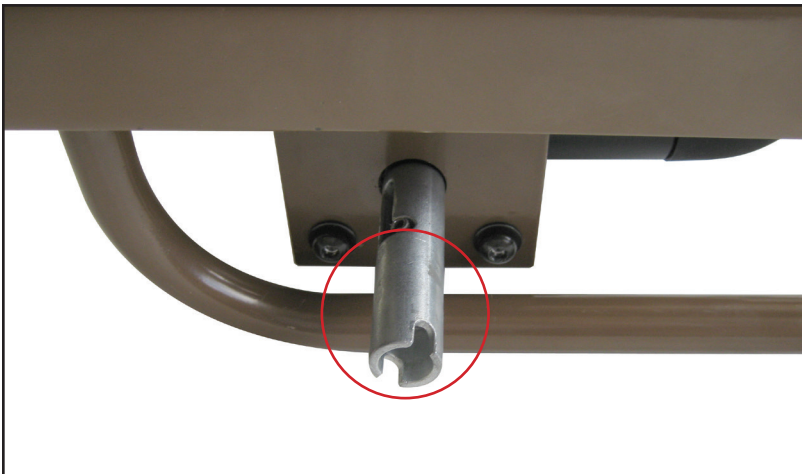
9. Install Hi/Low shaft to the Hi/Low motor at the foot section of the bed by inserting the spring loaded side of the shaft to the bottom receptacle as shown.



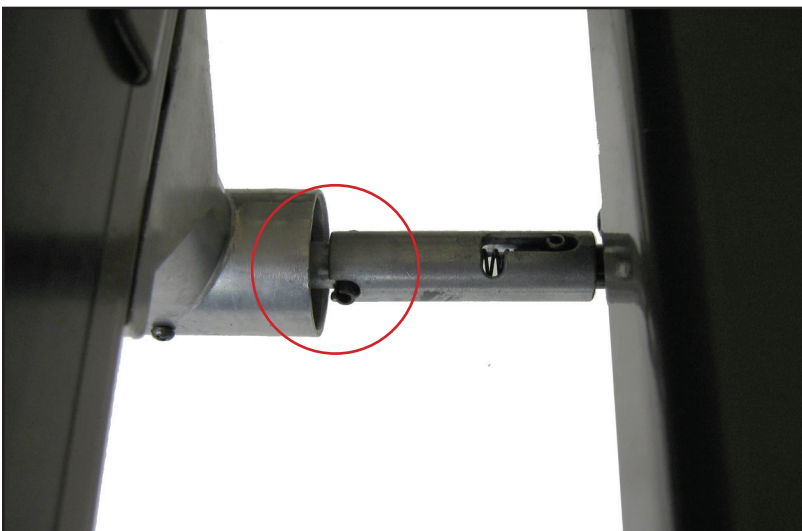
10. Hi/Low shaft connected to Hi/Low motor.



11. Install the head end of the shaft as shown.



12. Release the spring loaded shaft on the hi/low motor and insert the shaft into the gear box on the footboard.



13. Make sure the slot on the spring loaded shaft engages the roll pin on the gear box.

MOTOR INSTALLATION



HAND CONTROL

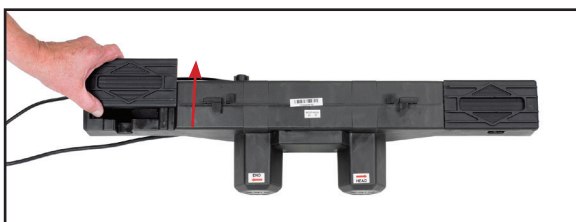
The Competitor bed comes with a hand control that will illuminate when the bed is plugged into a grounded or polarized wall outlet, or with 9V battery (sold separately) installed in the hand control. The hand control will illuminate as long as the wall or battery has power. With this battery installed, the motor can be operated to return the sleep surface to the horizontal position in the event of a power failure.



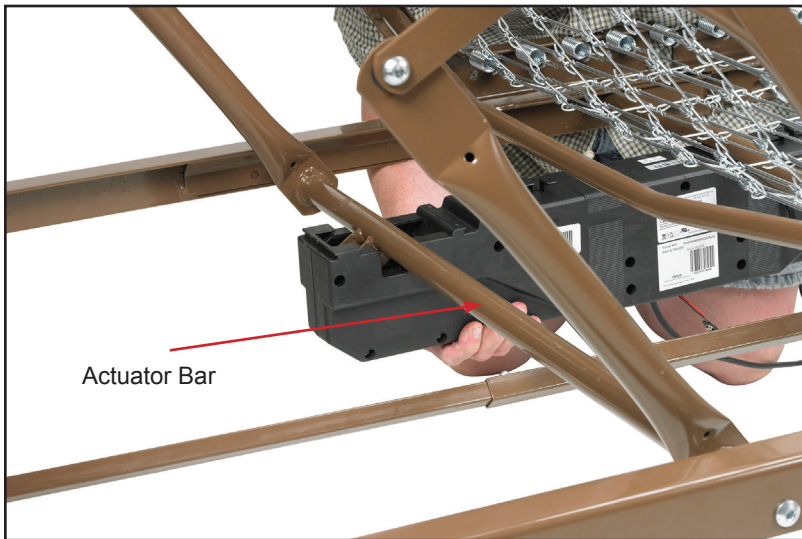
NOTE: Before installing motor, plug hand pendant and Hi/Low motor cable into motor as shown



14. Connect the 9V battery (sold separately) to the battery clip on the motor. It is stored in the recess under the motor cover. With this battery installed, the motor can be operated in the event of a power failure.



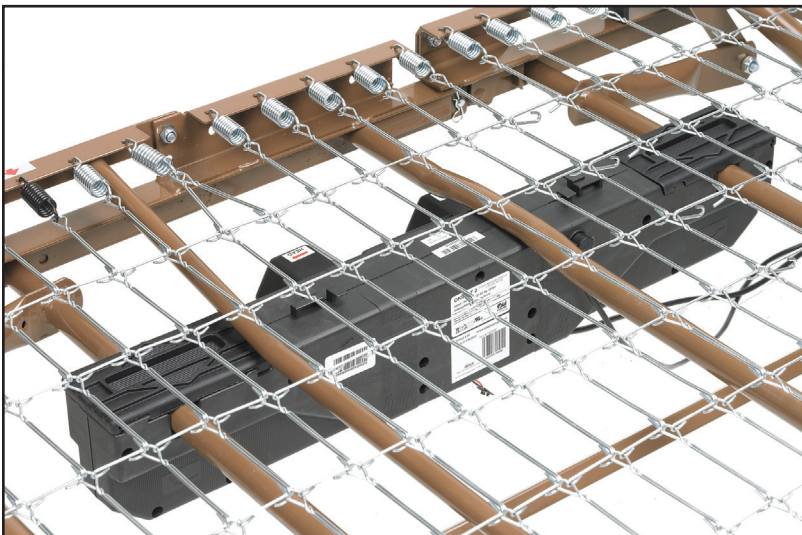
15. To install motor, remove locking caps on top of the motor.



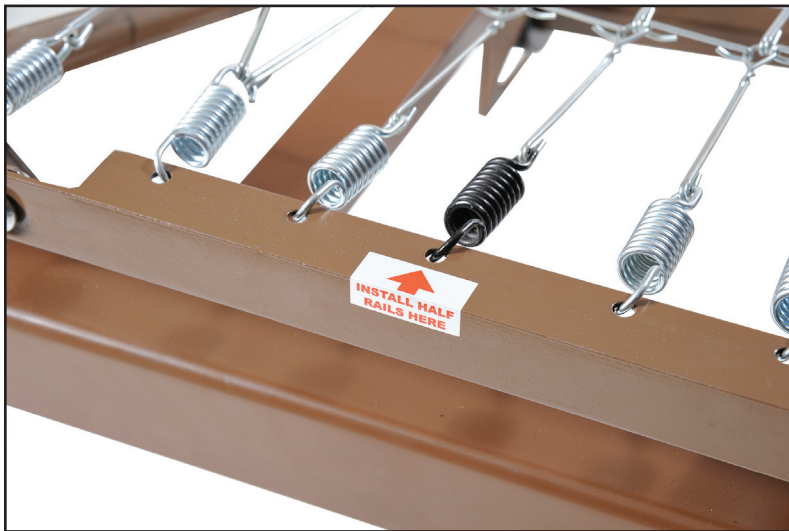
16. Align the motor with the actuator bar and lift the head spring to the highest position. The motor will automatically be pulled towards the bed and lock onto the accuator. Repeat for foot section.



17. After the motor is installed, slide locking covers back on motor.

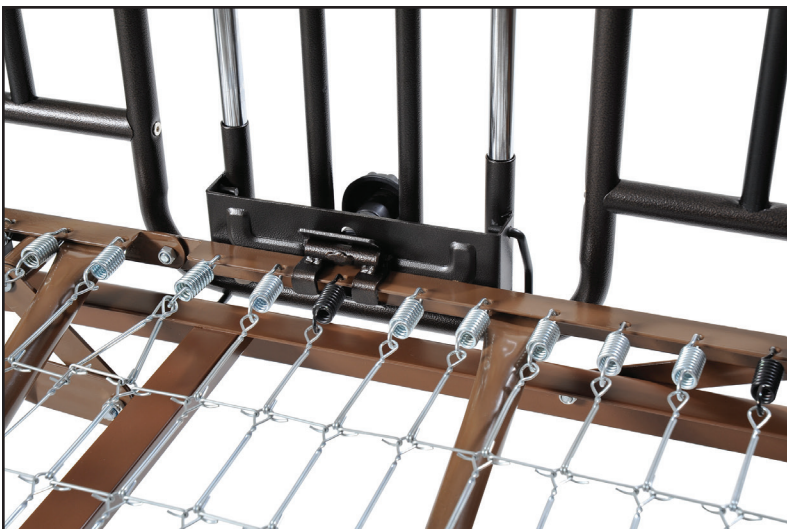


BED RAIL INSTALLATION



18. Attaching Bed Rails

- a. Half rails
 - The head section features labels on the frame marked, "Attach Half Rails Here" and black springs for proper placement.



b. Full Rails

- The foot and head section have color coded springs, labels and notches in the frame.
- Install the cross brace between the black springs for proper rail placement.

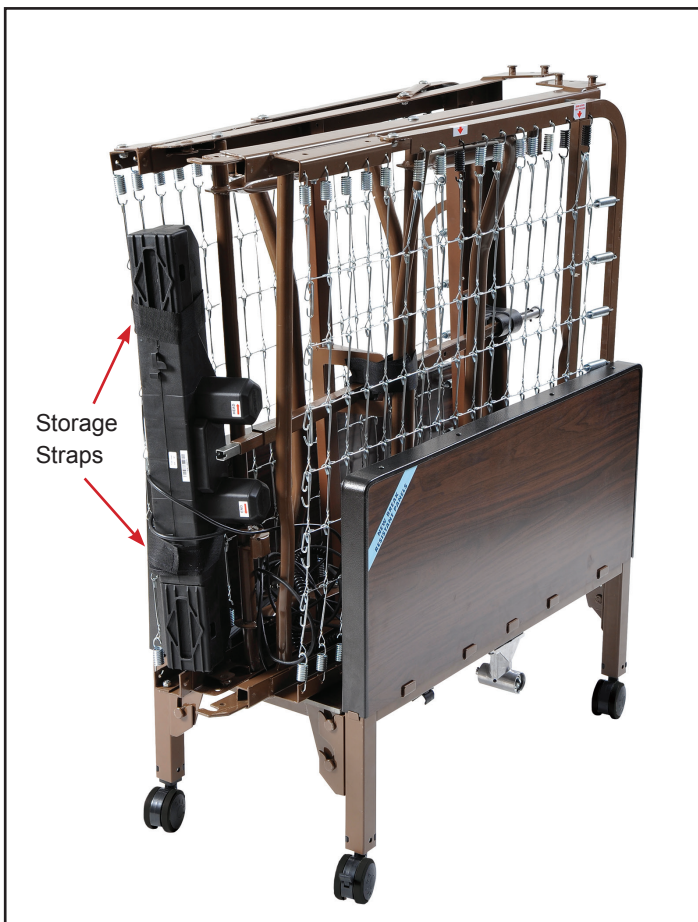


MATTRESS INSTALLATION



19. Before a mattress is laid on the bed, flip up the mattress guard to reduce the movement of the mattress.

STORAGE



20. Shown on Bed Storage Transporter (model # 15060) with motor attached with storage straps (included).

MAINTENANCE & SAFETY CHECKS

Drive recommends the following maintenance and cleaning procedures be conducted between users.

ELECTRONICS

- Check all controls to make sure all functions work properly.
 - Foot control
 - Head control
 - Hi/Lo
- Check all cables for damaged or frayed wires.
 - Power cord
 - Pendant cord
- Check to make sure all plugs are fully inserted or attached.
- Check 9V battery on motor and replace annually.

BED FRAME & SLEEPING SURFACE

- Visually check all welds.
 - Head section
 - Foot section
 - Main Frame
- Check joints between sleeping surface sections for loose fasteners.

CLEANING

- The metal parts of the bed are covered with a powder coating. Clean all coated parts with mild detergent and warm water. Periodically raise head and feet sections of the bed and remove dust from frame. Also, periodically remove mattress and clean mattress deck.

LUBRICATION & MECHANICAL

- Lightly grease all actuator screw threads with white lithium grease.
- Lubricate all caster roller and swivel bearings with light machine oil.
- Check all bolts and tighten as needed.

WARRANTY

- Lifetime warranty on welds.
- 5 year warranty on frame.
- 5 year warranty on motor.
- 1 year warranty on all other parts and components.

During the warranty period, defective items will be repaired or replaced at Drive's option at no charge.

WARNINGS

GENERAL WARNINGS

DO NOT use this product or any available optional equipment without first completely reading and understanding these instructions and any additional instructional material such as owner's manuals, service manuals or instruction sheets supplied with this product or optional equipment. If you are unable to understand the warnings, cautions or instructions, contact a healthcare professional, dealer or technical personnel before attempting to use this equipment - otherwise, injury or damage may occur.

Read all the instructions before using the bed.

Refer to the owner's manuals for beds and rails for additional product and safety information. After any adjustments, repair or service and before use, make sure all attaching hardware is tightened securely.

After the bed has been assembled, always test to make sure that all sections of the bed are properly and securely in place before using.

ALWAYS use caster locks except when moving the bed.

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

Check all parts for shipping damage and test before using. In case of damage, **DO NOT** use. Contact a qualified technician for further instruction.

Close supervision is necessary when this bed is used by or near children or people with disabilities.

DO NOT let any individual underneath the bed or

in between the raised bed frame components at anytime.

DO NOT permit more than one person on/in the bed at any time.

DO NOT use outdoors.

DO NOT use this product or any available optional equipment without first completely reading and understanding these instructions and any additional instructional material such as owner's manuals, service manuals or instruction sheets supplied with this product or optional equipment. If you are unable to understand the warnings, cautions or instructions, contact a healthcare professional, dealer or technical personnel before attempting to use this equipment - otherwise, injury or damage may occur.

For Dealers Only - Set-up and Assembly Instructions are in the rear of this manual. These procedures must be performed by a qualified technicians only.

The March 2006 version of the FDA's bed safety guidelines are published by Hospital Bed Safety Workgroup. The latest revision of this document is available at <http://www.fda.gov>.

If the unit is not working properly, call a qualified technician to examine the unit and repair it.

Drive Medical products are specifically designed and manufactured for use in conjunction with Drive Medical accessories. Accessories designed by other manufacturers have not been tested by Drive Medical and are not recommended for use with Drive Medical products.

Keep all moving parts, including the main frame, mattress deck (head and foot springs/sections) and all drive shafts free of obstruction (i.e. blankets/

WARNINGS

sheets, heating blankets/pads, tubing, wiring, etc. and other types of products using electric cords which may get tangled around the bed, side rails or legs) during operation of the bed.

Keep the product a minimum of 12 inches away from any direct heat source.

Make sure head and foot springs/sections are connected securely to the universal bed ends before use.

Physically challenged individuals who cannot prevent themselves from rolling/climbing out of the this bed may require alternative safe means of restraint.

Procedures other than those described in this manual must be performed by a qualified technician. Risk of injury to persons - **DO NOT** place video equipment such as televisions or computer monitors on bed.

NEVER allow patients to use trapeze or traction units as a total individual weight support.

Trapeze units are to be used only for assisting the patient in repositioning or transferring into or out of bed.

Trapeze units must be positioned on a universal bed end as near as possible to the center point of the bed end.

The bed is not designed to be used as a patient transport. When transporting a patient, use an approved patient transport. Otherwise, injury or damage may result.

The bed may be equipped with locking casters. When transferring into or out of the bed, always lock the locking caster(s). Inspect for correct locking action on caster locks before using bed. Even

with casters properly locked, some flooring surfaces such as tile or wood, will allow the bed to move under some conditions. Use on surfaces such as these must be evaluated by the care provider.

The initial set up of this bed must be performed by a qualified technician.

The total weight limit of the Drive Medical 36-inch (91.4 cm) wide Manual/Electric bed (including accessories, mattress, occupant and any other person/object positioned on the bed) is 450 pounds (204 kg.); 350 pounds (158 kg) patient weight.

Use this bed only for its intended use as described in these instructions. **DO NOT** use attachments not recommended by the manufacturer.

After raising/lowering the head/foot end of the bed, check the distance between the bottom of the bed rail and the mattress. If there is excessive distance between the bottom of the bed rail and the mattress in which individuals may become entangled, adjust the height of the bed rail (if applicable), or provide alternative means of patient protection.

Once patient assessment concludes that the patient's condition increases the chance of entrapment, the bed **MUST** be in the flat position when left unattended.

Proper patient assessment and monitoring, and proper maintenance and use of equipment is required to reduce the risk of entrapment. Variations in bed rail dimensions, and mattress thickness, size or density could increase the risk of entrapment. Visit the FDA website at <http://www.fda.gov> to learn about the risks of entrapment.

Replacement mattresses and bed side rails with dimensions different than the original equipment supplied or specified by the bed frame manufac-

WARNINGS

turer are not interchangeable. Variations in bed side rail design, width and thickness or firmness of the mattress could cause/contribute to entrapment. Use only authorized Drive Medical replacement parts and/or accessories otherwise the warranty is void. Drive Medical will not be responsible for any damage or injury that may result.

To reduce the risk of entrapment make certain that the bed rail cross braces **DO NOT** exceed the width of the mattress. Mattress **MUST** fit bed frame and side rails snugly to reduce the risk of entrapment.

When operating this bed, **ALWAYS** ensure that the individual utilizing the bed is positioned properly within the confines of the bed. **DO NOT** let any extremities protrude over the side or between the bed rails when performing these functions.

Drive Medical recommends that the mattress be centered on the bed frame. Otherwise, individuals may become entangled between the bed rail and the bed frame.

Mattress **MUST** fit bed frame and assist rails snugly to reduce the risk of entrapment.

SAVE THESE INSTRUCTIONS

NOTE: Updated versions of this manual are available on www.Drive Medical.com.

BED RAIL WARNINGS

Although bed rails are not rated to any specific weight limitation, the bed rails may become deformed or broken if excessive side pressure is exerted on the bed rails. The bed rail is not an assist rail for getting into or out of bed. **DO NOT** use the bed rails as push handles when moving the bed.

Always test to make sure that the side rails are properly and securely in place before using the bed.

DO NOT install the optional bed rails without reading and understanding all of the instructions in the instruction sheet that accompanies the bed rail kit.

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

These bed rails are intended to prevent an individual from inadvertently rolling out of bed. **DO NOT** use for restraint purposes.

When used with a manual/electrical bed, the bed rails **DO NOT** fall under any weight limitations. Bed rails can be deformed or broken if excessive side pressure is exerted on the bed rails. These bed rails are used for the purpose of preventing an individual from inadvertently rolling out of bed. The bed rails are **NOT** intended nor may be used for restraint purposes. If an individual is capable of injuring himself/herself, a physician or a healthcare professional should be consulted for alternative means of safe restraint.

ELECTRICAL WARNINGS

A safety feature of this product includes protection against overheating caused by excessive or extended periods of operation. Depending on the duration, this includes multiple or repeated adjustments or the use of multiple functions at one time. To ensure trouble free operation, always allow a slight pause between multiple adjustments and avoid pressing more than one function button at a time. If thermal protection activation should occur, the bed will not respond to pendant commands. Given this situation, release the pendant button and allow the bed unit to sit for several minutes. This will allow the protection function time to reset and restore bed function. Depending on severity of the initial overheating, this could take up to 30 minutes.

Allow a slight pause between adjustments and avoid pressing multiple buttons at the same time. If pendant buttons are depressed too rapidly or multiple buttons are pressed at the same time, the

WARNINGS

desired feature may not activate. Simply release the pendant button, permit a slight pause and then activate the next operation.

ALWAYS remove manual crank(s) before performing electronic functions. Otherwise, the crank(s) will turn when the motor is on and could cause personal injury or damage to the bed.

Always unplug the bed from the electrical outlet before cleaning.

DO NOT open assemblies such as the motors, pendant, junction boxes or gear boxes. No user serviceable parts are inside. Only qualified technicians are permitted to repair these parts. If unqualified individuals perform any work on these beds, the warranty is void. **DO NOT** place pendant under or between objects. This may unintentionally press the buttons and may cause injury or damage.

Electronic equipment may be influenced by Radio Frequency Interference (RFI). Caution should be exercised with regard to the use of portable communications equipment in the area around such equipment. If RFI causes erratic behavior, unplug the electric bed **IMMEDIATELY**. Leave unplugged while transmission is in progress.

Ensure all cables and cords are routed such that they will not become entangled or pinched. Otherwise damage or injury may result.

If a button on the pendant does not release or sticks, the bed spring will not stop moving.

If a liquid is spilled in or around the electric bed, unplug the electric bed before cleaning. Clean up the spill and allow the electric bed or the area around the electric bed to dry thoroughly before using the electric controls again.

Inspect the covering of the bed's control panel and the patient control panel to assure that the covering is not cracked or damaged.

Keep all electrical cords away from heated or hot surfaces.

Keep the cord away from heated surfaces.

NEVER operate if the unit has a damaged cord or plug. If it is not working properly, call a qualified technician for examination and repair.

NEVER operate this bed if it has a damaged cord or plug, if it is not working properly, if it has been dropped, damaged, or dropped into water. Return the bed to a service center for examination and repair.

On Full Electric beds, the Hi/Lo crank **MUST** be removed before the bed is used. Failure to remove the crank may cause damage or personal injury.

Refer servicing to qualified personnel only. Grounding reliability depends upon a properly grounded wall outlet.

The pendant and power cords must be routed and secured properly to ensure that the cords **DO NOT** become entangled, pinched and/or severed during operation of the electric bed.

Unplug from the outlet before servicing.

Unplug the power cord from its power source before performing any maintenance on the manual/ electric bed. **DO NOT** unplug the power cord from the junction box. Damage to cord will result.

Use caution when disconnecting the pendant. **DO NOT** press pendant buttons.

When bed is not to be used for an extended period, unplug electric bed from the wall outlet.

When using an extension cord, use only a three wire extension cord having at least 16 AWG (American Wire Gauge) wire and the same or higher electrical rating as the device being connected. Use

WARNINGS

of improper extension cord could result in a risk of fire and electric shock. Three to two prong adapters should not be used. Use of three prong adapters can result in improper grounding and present a shock hazard to the user.

When using nasal or masked type oxygen administering equipment, the oxygen or air tubing **MUST** be routed and secured properly to ensure that the tubing does not become entangled and/or severed during normal operation of the bed.

DO NOT use near explosive gases.

Possible fire hazard when used with oxygen administering equipment other than nasal or masked type.

Use masked or nasal type oxygen administering equipment only in conjunction with this bed. The use of **ANY** other type of oxygen administering equipment can result in a fire hazard.

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

The Head (Head Spring) and Foot (Foot Spring) sections of the sleep surface must be in the lowered/flat position for entry into the bed. Patients should be slowly lowered into the bed.

DO NOT abruptly “drop” patients into the bed.

It is not safe to use the Head (Head Spring) or Foot (Foot Spring) sections of the sleep surface to assist in raising or lowering patient for entry or egress from the bed. This may damage the frame and/or motors and create a danger to the patient.

DO NOT attempt to raise the Head (Head Spring) section of the sleep surface while the patient or any other individual is seated or positioned with their weight entirely on the Head (Head Spring) section of the sleep surface.

DO NOT attempt to raise the Foot (Foot Spring) section of the sleep surface while the patient or any other individual is seated or positioned with their weight entirely on the Foot (Foot Spring) section of the sleep surface.

DO NOT attempt to raise the Head (Head Spring) or Foot (Foot Spring) sections of the sleep surface while more than one person is lying in the bed or when the bed weight limitations have been exceeded.



NOTES



99 Seaview Boulevard
Port Washington, NY 11050
Phone: 516-998-4600
Toll Free: 877.224.0946
Fax: 516.998.4601
www.drivemedical.com