

Electrical
MedSurg Bed
Model FL23E

stryker[®]

Operations Manual



For Parts or Technical Assistance:
USA: 1-800-327-0770 (option 2)
Canada: 1-888-233-6888



Table of Contents

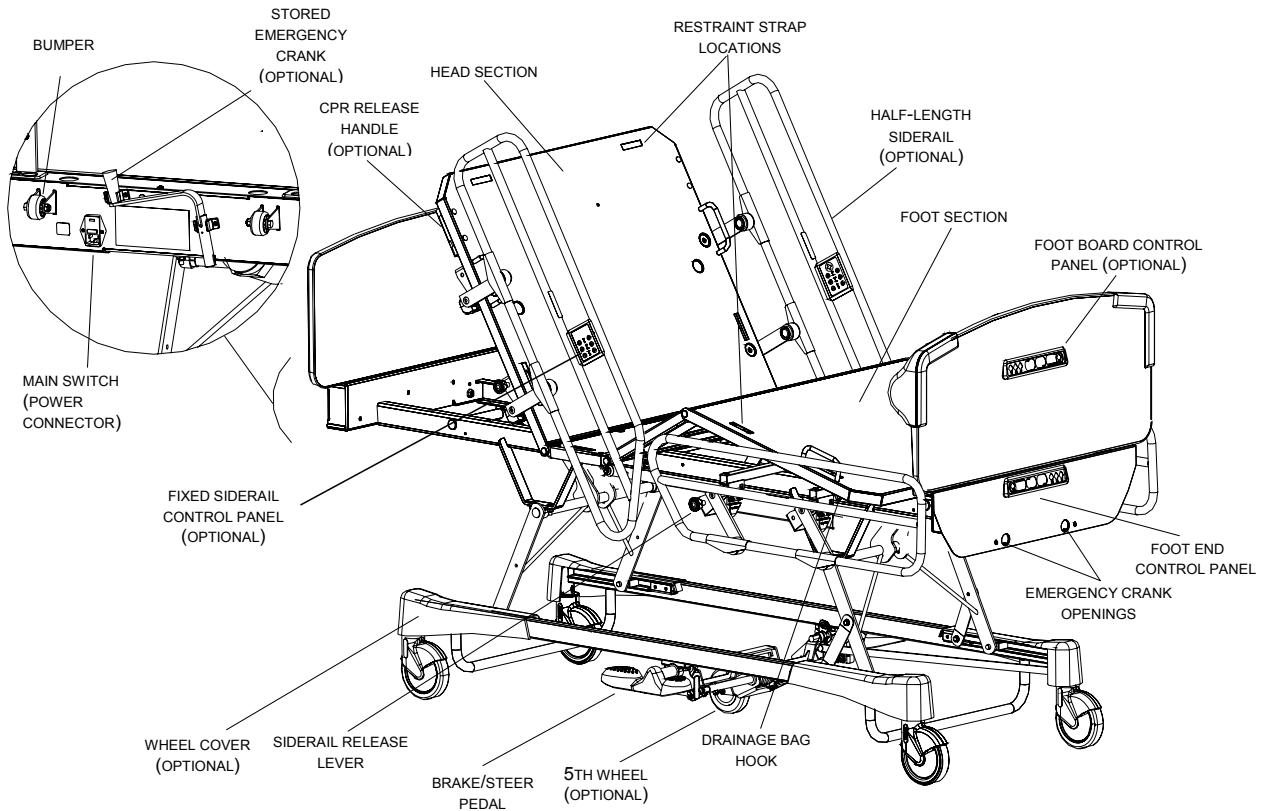
Introduction	4
Intended Use	4
Product Illustration	4
Specifications	5
Warning / Caution / Note Definition	6
Symbols	7
Summary of Safety Precautions	8
Setup Procedures	10
Checklist	10
Operation Guide	11
Powering the Bed	11
Brake/Steer Pedal	11
Applying the Brakes	11
Brake Pedal Operation	12
Moving the Bed	12
Steer Mode Operation	12
Foley Bag Hook	12
Patient Restraint Strap Locations	12
Night Light (Optional) Usage	12
CPR Emergency Release (Optional) Usage	13
Lowering the Fowler During a Power Failure	13
120V Auxiliary Power Outlet Usage (Optional)	13
Positioning Siderails	14
Half-Length Siderails	14
Full-Length Siderail	14
Head and Foot Board Usage	14
Nurse Call (Optional) Usage	14
Siderail Control Panel Usage (Optional)	15
Foot Board Control Panel Usage	16
Auto Contour Positioning (Optional)	17
Accessories	17
Preventative Maintenance	18
Checklist	18
Cleaning	19
Bed Cleaning	19
Mattress Care	19
Warranty	20
Limited Warranty	20
To Obtain Parts and Service	20
Service Contract Coverage	20
Service Contract Programs	21
Return Authorization	21
Damaged Merchandise	21
International Warranty Clause	21

Introduction

INTENDED USE


This manual is designed to assist you with the operation of Stryker Model FL23E Electrical MedSurg Bed. Carefully read this manual thoroughly before using the equipment or beginning maintenance on it. To ensure safe operation of this equipment, it is recommended that methods and procedures be established for educating and training staff on the safe operation of this bed.

PRODUCT ILLUSTRATION



Introduction

SPECIFICATIONS

	Safe Working Load			
	Note: Safe Working Load indicates the sum of the patient, mattress, and accessory weight.		500 lbs	227 kg
Overall Length/Width	Half-Length Siderails Raised		90.4" x 41.3"	229.6 x 104.9 cm
	Full-Length Siderails Raised		90.4" x 39.9"	229.6 x 101.3 cm
Weight with Boards			390 lbs	177 kg
Patient Sleep Surface			35" x 78"	89 x 198 cm
Recommended Mattress Size	Length/Width		35" x 78" or 80"	89 x 198 or 203 cm
	Maximum Thickness	BNQ Standard	Bed with diameter 6" casters	6"
Bed with diameter 5" (12.7 cm) casters			5"	12.7 cm
Non-BNQ Standard		5"	12.7 cm	
Minimum/Maximum Bed Height	With diameter 5" (12.7 cm) casters		11.75" to 29"	29.8 to 73.7 cm
	With diameter 6" (15.2 cm) casters		12.75" to 30"	32.4 to 76.2 cm
Fowler Angle			0° to 62°	
Knee Gatch Angle	With Auto Contour		0° to 25°	
	Without Auto Contour		0° to 32°	
Trendelenburg/Reverse Trendelenburg			+17° to -17°	
Environmental Conditions	Transport and Storage		-40° to 158°F 10 to 100% 500 to 1060 hPa	-40° to 70°C
	Operating		50° to 104°F 5 to 95% without condensation 700 to 1060 hPa	10° to 40°C
Electrical Requirement	Complies with the following standards: CSA C22.2 No. 601.1, UL 60601-1, IEC 60601-1, 60601-2-38 and BNQ 6641-120 : 2003.		100V~, 50-60Hz, 7.5A - Two 250V, 10A Fast Acting Fuses 120V~, 50-60Hz, 4A (9.8A with 120V Optional Auxiliary Outlet) - Two 250V, 10A Fast Acting Fuses 200V~, 50-60Hz, 3.2A - Two 250V, 6.3A Slow Blow Fuses 220V~, 50-60Hz, 2.9A - Two 250V, 6.3A Slow Blow Fuses 240V~, 50-60Hz, 2.7A - Two 250V, 6.3A Slow Blow Fuses	

Stryker reserves the right to change specifications without notice.

Specifications listed are approximate and may vary slightly from unit to unit or by power supply fluctuations.

*This device has a 10% duty cycle.

Note

Safe Working Load for the BNQ beds is of 390 lbs (176 kg).

Introduction

WARNING / CAUTION / NOTE DEFINITION

The words WARNING, CAUTION, and NOTE carry special meanings and should be carefully reviewed.

WARNING

Alerts the reader about a situation, which if not avoided, could result in death or serious injury. It may also describe potential serious adverse reactions and safety hazards.

CAUTION

Alerts the reader of a potentially hazardous situation, which if not avoided, may result in minor or moderate injury to the user or patient or damage to the equipment or other property. This includes special care necessary for the safe and effective use of the device and the care necessary to avoid damage to a device that may occur as a result of use or misuse.

Note

This provides special information to make maintenance easier or important instructions clearer.

Symbols



Warning, Consult accompanying documentation



Alternating Current



Type B Equipment: Equipment providing a particular degree of protection against electric shock, particularly regarding allowable leakage current and reliability of the protective earth connection.

Class 1 Equipment: Equipment in which protection against electric shock does not rely on **basic insulation** only, but which includes an additional safety precaution in that means are provided for the connection of the **equipment** to the protective earth conductor in the fixed wiring of the installation in such a way that **accessible metal parts** cannot become live in the event of a failure of the **basic insulation**.

IPX4

Protection from liquid splash



Dangerous Voltage Symbol



Protective Earth Terminal



Potential Equalization Symbol



Medical Equipment Classified by Underwriters Laboratories Inc. with Respect to Electric Shock, Fire, Mechanical and Other Specified Hazards Only in Accordance with UL 60601-1, First Edition (2003) and CAN/CSA C22.2 No. 601.1-M90 with updates 1 and 2.



Safe Working Load Symbol



Fuse rating for bed with 100V~ and 120V~ electric systems.



Fuse rating for bed with 200V~, 220V~ and 240V~ electric systems.



In accordance with **European Directive 2002/96/EC** on Waste Electrical and Electronic Equipment (**WEEE**), this symbol indicates that the product must not be disposed of as unsorted municipal waste, but should be collected separately. Refer to your local distributor for return and/or collection systems available in your country.

[Return To Table of Contents](#)

Summary of Safety Precautions

Before operating the bed, it is important to read and understand all information in this manual. Carefully read and strictly follow the safety guidelines listed below.

It is important that all users have been trained and educated on the inherent hazards associated with the usage of electric beds.

WARNING

- This bed is not intended for pediatric use: i.e., for any patient measuring 35" (90 cm) or less.
- The mattress thickness should never exceed 6" (15.24 cm).
- Do not use an accessory that slides under the bed frame when the bed is in low position or remove it before lowering the bed. Failure to conform to this safety precaution could result in serious patient injury and equipment damage.
- This bed is equipped with a hospital grade plug for protection against shock hazard. It must be plugged directly into a properly grounded power source. Grounding reliability can be achieved only when a hospital grade power source is used.
- Shock Hazard - Improper handling of the power cord may result in damage to the power cord and potential shock hazards. If damage has occurred to the power cord, immediately remove the bed from service, and contact the appropriate maintenance personnel. Failure to conform to this safety precaution could result in death or serious injury.
- Serious injury can result if caution is not used when operating the bed. Operate the bed only when all people and equipment are clear of the electrical and mechanical systems.
- Always apply the brakes when a patient is on the bed or entering/exiting the bed. Serious injury could result if the bed moves while a patient is getting on or off the bed. After the brake pedal is engaged, push on the bed to ensure the brakes are securely applied.
- When the patient is unattended and unless the patient's medical condition dictates otherwise, keep the sleep surface horizontal in its lowest position and the siderails fully raised, except for beds equipped with half-length siderails, in which case, the foot siderails should be left down to allow the patient to exit the bed.
- When raising the siderails, be sure that you hear the "click" that signals the locked condition. Pull firmly on the siderail to ensure it is locked into position.
- When the sleep surface sections are articulated, ensure that all patient's extremities are within the raised siderails to avoid patient injury.
- When a patient's condition requires greater safety measures for his/her security, lock the siderail controls using the foot end lockout controls or remove any optional pendant control, and install protective pads on the siderails.
- Siderails, with or without their padded covers, are not intended to serve as restraint devices to keep patient from exiting the bed. Siderails are designed to keep a patient from inadvertently rolling off the bed. It is the responsibility of the attending medical personnel to determine the degree of restraint necessary to ensure a patient will remain safely in bed. Failure to use the siderails properly could result in serious patient injury.
- To reduce risk of injury, ensure the sleep surface is horizontal and in the lowest position with the siderails fully raised and locked when moving the bed with a patient in it.
- To avoid injury to the patient and/or user, do not attempt to move the bed laterally with the steer mode engaged.
- The CPR emergency release (optional) is for emergency use only. To avoid serious injury, personal injury or equipment damage, ensure all people and equipment are removed from the area below and around the head, thigh and foot sections of the bed, before activating the CPR release handle.
- Possible fire hazard exists when this bed is used with oxygen administering equipment other than nasal or mask type. It is recommended to unplug the bed power cord from the wall when oxygen administering equipment is used.
- When a large fluid spill occurs, immediately unplug the bed power cord from the wall outlet. Remove the patient from the bed and clean up the fluid. Have maintenance completely check the bed. Fluids can have an adverse effect on operational capabilities of any electrical product. **Do not** put the bed back into service until it is completely dried and has been thoroughly tested for safe operation.

Summary of Safety Precautions

- Do not **steam clean, hose off or ultrasonically clean the bed. Do not immerse any part of the bed.** The internal electrical parts may be damaged by exposure to water. Hand wash regularly all surfaces of the bed with warm water and a mild detergent. Wipe cleaned surfaces dry to avoid build up of cleaning substance. Inspect the mattress after each use. Discontinue use if any cracks or rips, which may allow fluid to enter the mattress, are found in the mattress cover. Failure to properly clean the mattress, or dispose of it if defective, may increase the risk of exposure to pathogenic substances and may bring about diseases to the patient and user.
- Preventive maintenance should be performed at least once a year to ensure all bed features are operating properly. Ensure that any bed malfunction is promptly reported to your service personnel for immediate attention.
- Always unplug the bed power cord from the power source when servicing or cleaning the bed. When working under the bed with the bed in the high position, always place blocks under the mattress support frame and apply the brakes to prevent injury in case the bed down control is accidentally pressed.
- To avoid damage to the siderail mechanisms, do not move the bed using the raised siderails. Use the head or foot board to move the bed.
- Before using the optional emergency crank during a power failure, always unplug the power cord. An unexpected return of power could rotate the handle and cause injury.
- When servicing, use only identical replacement parts provided by Stryker.

Note

Throughout this operations manual, the words “right” and “left” refer to the right and left sides of a patient lying face up on the bed.

Setup Procedures

CHECKLIST

It is important to ensure that the bed is working properly before it is put into service. The following list will help ensure that each part of the bed is checked.

WARNING

The bed is equipped with a hospital grade plug for protection against shock hazard. It must be plugged directly into a properly grounded power source. Grounding reliability can be achieved only when a hospital grade power source is used.

1. Install the foot and head boards on the bed. If the bed is equipped with the optional foot board control panel, insert the foot board carefully so that the board and the casing connectors fit in smoothly.
2. Plug the power cord to the bed connector at the head end of the bed and into a properly grounded hospital grade power source. Grounding reliability can be achieved only when a hospital grade power source is used.
3. On both sides of the bed, depress fully down on the side of the pedal identified with a red sticker and ensure that the brakes are applied and the bed immobilized. Toggle the pedal to neutral and ensure the brakes are released.
4. On both sides of the bed, depress fully down on the side of the pedal identified with a green sticker and ensure that the steer mode - bed steer caster or optional 5th wheel - is engaged. Toggle the pedal to neutral and ensure that the steer mode disengages.
5. Ensure that the siderails raise, lock in the up position and lower smoothly (see [page 14](#))
6. Run through each control of the inner and outer siderail control panels (see [page 15](#)).
7. Run through each control of the foot end and optional foot board panels. Check the LED's, making sure they go on or off according to the situation (see [page 16](#))
8. Raise the bed to full up position and activate the Trendelenburg function (see [page 16](#)). Ensure the head end lowers to the full down position. Level the bed using the Hi-Lo controls.
9. Raise the bed to full up position and activate the reverse Trendelenburg function (see [page 16](#)). Ensure the foot end lowers to the full down position. Level the bed using the Hi-Lo controls.
10. Verify the optional CPR emergency release. Raise the Fowler fully up. Using the CPR release handle, lower the Fowler gradually to flat position by pulling, holding and releasing the handle several times. Ensure the Knee Gatch (if raised) also starts flattening when the Fowler is completely down. Following the complete lowering of the Fowler, wait approximately 30 seconds (the time for the Fowler motor to reset itself) and verify that the motor has indeed reset itself completely by raising the Fowler fully up using the Fowler up control.
11. Verify the optional equipment for proper operation (see accompanying accessory documentation).
12. If any problems are found during the bed setup procedure, contact your local Stryker Technical Service department.

Operation Guide

POWERING THE BED

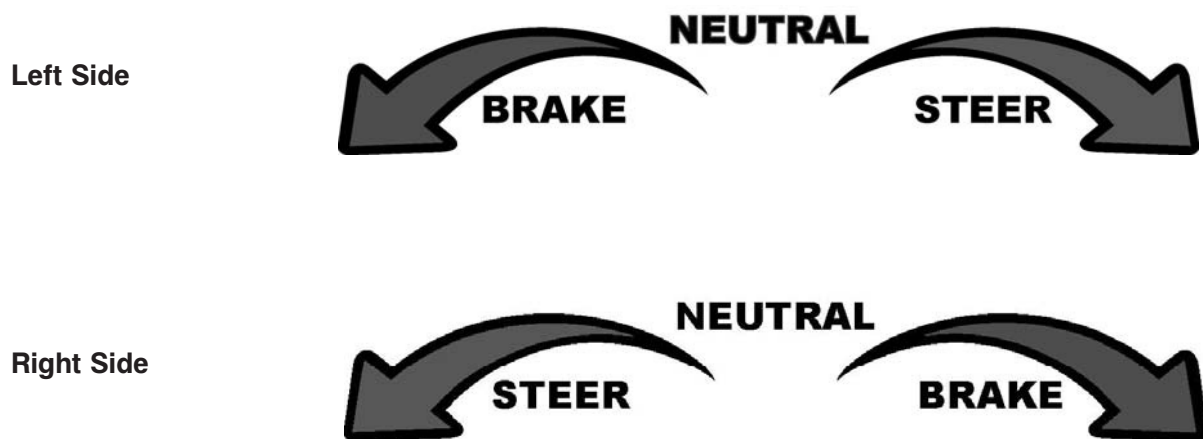
The bed is equipped with a main power switch located at the head end of the bed where the power cord connects to the power connector (see “Product Illustration” on [page 4](#)). Turn it on to activate the bed functions. When the bed power switch is turned off or in the event of a power failure, the setting of the control lockouts (see [page 16](#)) is saved.

WARNING

Shock Hazard - Improper handling of the power cord may result in damage to the power cord and potential shock hazards. If damage has occurred to the power cord, immediately remove the bed from service, and contact the appropriate maintenance personnel. Failure to do so could result in death or serious injury.

BRAKE/STEER PEDAL

The bed is equipped with two lateral pedals. They control the brakes and the 5th steer wheel. The following illustrations, appearing on the label affixed on the optional 5th wheel hood or the frame, identifies the operation of the pedals.



APPLYING THE BRAKES

The bed is equipped with a central locking system activated by either lateral brake/steer pedals (see [page 4](#)).

WARNING

Always apply the brakes when a patient is on the bed or entering/exiting the bed. Serious injury could result if the bed moves while a patient is getting on or off the bed. After the brake pedal is engaged, push on the bed to ensure the brakes are securely applied.

Operation Guide

BRAKE PEDAL OPERATION

To **engage** the brakes, fully depress the side of the pedal identified with a red label and represented by the red BRAKE arrow (see [page 11](#)). To **disengage** the brakes, toggle the pedal to neutral position.

MOVING THE BED

The bed is equipped with a steer mode using a bed steer caster or an optional 5th wheel. The steer mode is activated by either lateral pedals (see [page 4](#)). The steer mode helps in guiding the bed along a straight line and helps the bed pivot around corners.

WARNING

To reduce risk of injury, ensure the sleep surface is horizontal and in the lowest position with the siderails fully raised and locked when moving the bed with a patient in it.

To avoid injury to the patient and/or user, do not attempt to move the bed laterally with the steer mode engaged.

CAUTION

To avoid damage to the siderail mechanisms, do not move the bed using the raised siderails. Use the head or foot board to move the bed.

STEER MODE OPERATION

To **engage** the steer mode, fully depress the side of the pedal identified with a green label and represented by the STEER green arrow (see [page 11](#)). To **disengage** the steer mode, toggle the pedal to neutral position.

FOLEY BAG HOOK

The four Foley bag hooks (see [page 4](#)) are located on both sides of the bed under the edges of the mattress support seat and foot sections.

PATIENT RESTRAINT STRAP LOCATIONS

The bed has 12 locations on the mattress support for installing patient restraint straps. Ten of them are located on the mattress support edges directly across from each other and the remaining two are located on the top edge of the head section (see [page 4](#)).

WARNING

Improperly adjusted restraint straps can cause serious injury to a patient. It is the **responsibility of the attending medical personnel** to determine proper use of restraint straps and restraint strap locations. **Stryker is not responsible for the type and/or use of restraint straps on any of Stryker's products.**

NIGHT LIGHT (OPTIONAL) USAGE

The bed may be equipped with an optional photoelectric night light to illuminate the floor area around the bed. The night light turns on as the room lights dim.

Operation Guide

CPR EMERGENCY RELEASE (OPTIONAL) USAGE

The CPR emergency release (optional) is for emergency use only. To avoid serious injury personal injury or equipment damage, ensure all people and equipment are removed from the area below and around the head, thigh and foot sections of the bed before activating the CPR release handle.

When quick access to the patient is needed and the Fowler is raised, pull outward one of the two CPR release handles until the Fowler is completely lowered. The Knee Gatch, if raised, will also flatten. The CPR handles are located under the upper right and left sides of the head section (see [page 4](#)).

The CPR handle can be released at any time to stop the lowering movement of the Fowler. But doing so will subsequently require that the Fowler be completely lowered, using the CPR handle or the Fowler down control, to enable the Fowler motor to reset itself. **Failing to do so will prevent the Fowler from being fully raised later on.**

Note

The use of the CPR release handle to partially lower the Fowler creates a situation where the Fowler motor is out of sync with the actual position of the Fowler. The situation is corrected, and only then, when the Fowler is completely lowered. The Fowler motor then begins an automatic resetting process to harmonize its course with the Fowler flat position. During the time the resetting process is occurring (approximately 30 seconds), the Fowler controls are not available.

LOWERING THE FOWLER DURING A POWER FAILURE

The CPR emergency release can also be used during a power failure to partially or completely lower the Fowler. Simply pull one of the CPR handles until the desired angle is reached and release it then. When current resumes, fully lower the Fowler to enable the Fowler motor to reset itself (see the note above under “CPR Emergency Release (Optional) Usage”).

If the bed is not equipped with the CPR emergency release, unplug the bed power cord from the wall outlet and use the optional emergency handle to lower the Fowler. A pictogram affixed on the head end casing cover illustrates clearly in which direction the handle should be turned to obtain the desired angle.

WARNING

Before using the optional emergency crank during a power failure, always unplug the power cord. An unexpected return of power could rotate the handle and cause injury.

120V AUXILIARY POWER OUTLET USAGE (OPTIONAL)

Located on the left side at the foot end of the bed, this feature provides nursing staff with a convenient power source for peripheral equipment. A 5A breaker is integrated to the power outlet.

WARNING

Use only hospital grade electric equipment consuming five (5) amperes or less with the auxiliary power outlet (optional). The use of standard electric equipment may bring the current leakage to a level unacceptable for hospital equipment.

Operation Guide

POSITIONING SIDERAILS

The bed may be equipped with two types of siderail: half-length and full-length.

WARNING

Siderails, with or without their padded covers, are not intended to serve as restraint devices to keep patient from exiting the bed. Siderails are designed to keep a patient from inadvertently rolling off the bed. It is the responsibility of the attending medical personnel to determine the degree of restraint necessary to ensure a patient will remain safely in bed. Failure to use the siderails properly could result in serious patient injury.

When the patient is unattended and unless the patient's medical condition dictates otherwise, keep the sleep surface horizontal in its lowest position and the siderails fully raised, except for beds equipped with half-length siderails, in which case the foot siderails should be left down to allow the patient to egress the bed should he want to.

When raising the siderails, be sure that you hear the "click" that signals the up and locked condition. Pull firmly on the siderail to ensure it is locked into position.

HALF-LENGTH SIDERAILS

- To **lower** the **head siderail**, grasp the rail in its center and rotate the siderail downward toward the head end of the bed until it is completely lowered.
- To **lower** the **foot siderail**, the same procedure is required as for the head siderail, however, the siderail rotates toward the foot end of the bed.
- To **engage** the **head siderail**, grasp the rail in its center and rotate the rail upward toward the head end of the bed until it locks in the full up position.
- To **engage** the **foot siderail**, the same procedure is required as for the head siderail, however, the siderail rotates to the foot end of the bed.

FULL-LENGTH SIDERAIL

- To **lower** a **full-length siderail**, grasp the siderail in its center, pull the yellow lever and completely lower the siderail while holding it.
- To **raise** a **full-length siderail**, grasp the rail in its center and raise the siderail fully up until it locks in place.

HEAD AND FOOT BOARD USAGE

The head and foot boards may be removed and replaced easily. The removal of the head board enables quick access to the patient's head.

- Board Removal: Grasp both ends of the board and lift up.
- Board Installation: Insert the board posts inside the mounting sockets.
If the bed is equipped with the optional foot board control panel, slide the foot board slowly in the mounting sockets while ensuring that the board connector properly fits into the foot casing connector.

NURSE CALL (OPTIONAL) USAGE

The optional nurse call function allows the patient to communicate with the nurse station by simply pressing the nurse call button integrated to the inner control panels of the head siderails (see [page 15](#)).

Note

Included with the nurse call option are two 1/4" phono plugs located on the frame at the head end of the bed. They enable the use of a nurse call cord that can be placed within reach of a patient who is not in the bed.

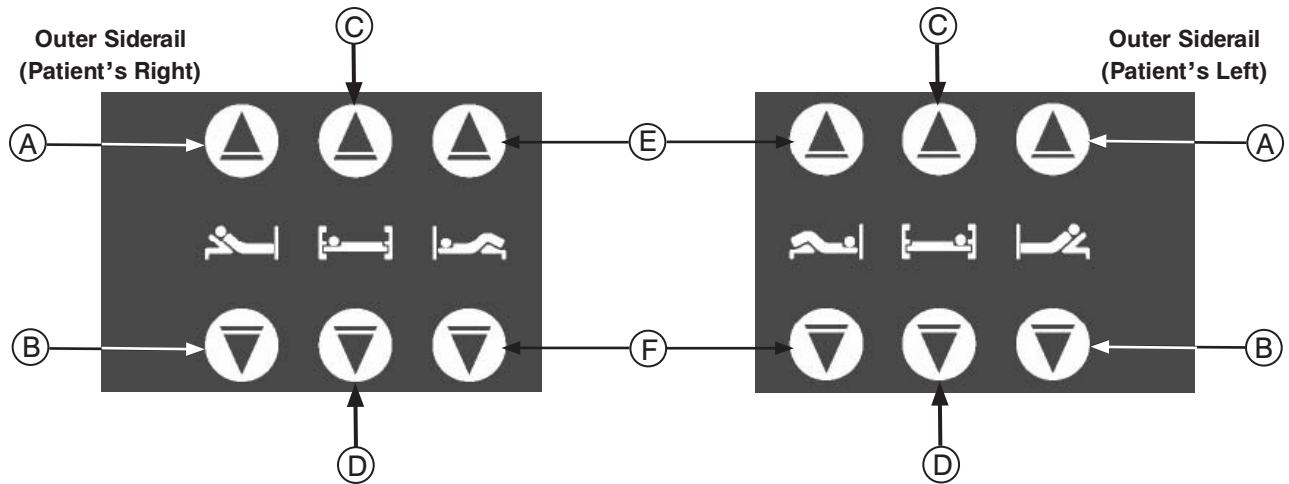
Operation Guide

SIDERAIL CONTROL PANEL USAGE (OPTIONAL)

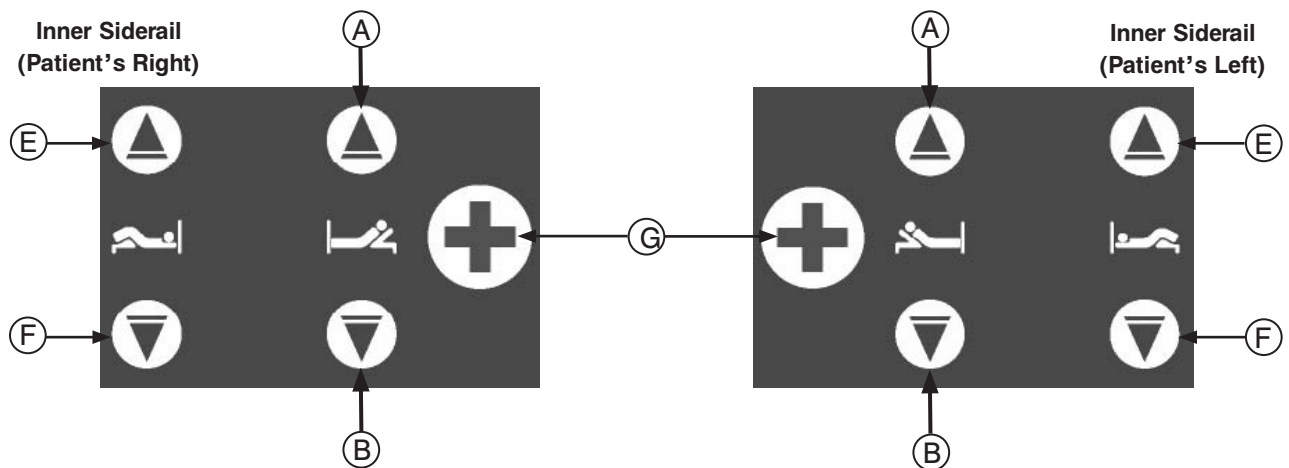
According to options chosen, siderails may be equipped with fixed (half-length siderails only) or removable (half-length and full-length siderails) control panels (patient control) allowing the setting of the bed height (F) and the head and thigh section positions (E).

Note

In order for the patient to use the siderail functions of the optional fixed or removable control panels, the functionality must be unlocked. Refer to the control lockouts section on the following page for procedure.



A	Press to raise Fowler.
B	Press to lower Fowler.
C	Press to raise bed.
D	Press to lower bed.
E	Press to raise Knee Gatch.
F	Press to lower Knee Gatch.
G	Press to activate nurse call (optional)



[Return To Table of Contents](#)

Operation Guide

FOOT BOARD CONTROL PANEL USAGE

The bed is equipped standard with a control panel located on the foot board at the foot end of the bed. An optional control panel, identical to the standard one, may also be present on the foot board. When both panels are present, the bed functions may be activated from the controls of either panel.

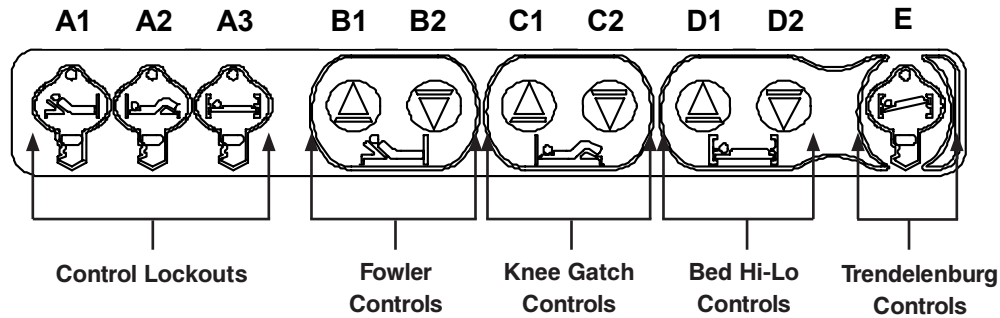


Figure 1

Note

- The three control lockouts (A1 to A3) as shown in Figure 1 allow the selective lock out of controls available to the patient and the nurse staff through the optional siderail control panels or the optional pendant control. The state of the LED associated to each control indicates whether the control is available to the patient or is locked. A LED that is illuminated green (On) indicates that the control is available to the patient. If the LED is not illuminated (Off), then the control is locked.
- The optional pendant control does not allow the patient to adjust the bed height, thus the Hi-Lo control lockout (A3) will not function when a pendant control is used. The LED associated with this lockout will illuminate (On) if the control is pressed, but with no consequence on the bed operation.

WARNING

Do not use an accessory that slides under the bed frame when the bed is in low position or remove it before lowering the bed. Failure to conform to this safety precaution could result in serious patient injury and equipment damage.

Button	Function
A1	Press to lock the Fowler controls. The green LED will go off.
A2	Press to lock the Knee Gatch controls. The green LED will go off. Note: The Knee Gatch lockout is also used to enable the Auto Contour positioning.
A3	Press to lock the bed height adjustment controls.
B1	Press to raise the Fowler.
B2	Press to lower the Fowler.
C1	Press to raise the Knee Gatch.
C2	Press to lower the Knee Gatch.
D1	Press to raise the bed.
D2	Press to lower the bed.

Operation Guide

Button	Function
E	<p>Press to activate the Trendelenburg positioning. Once this control is activated, the Trendelenburg positions become available through the bed Hi-Lo controls (D1 and D2). The Trendelenburg LED will go on.</p> <ul style="list-style-type: none">• Trendelenburg: Press the Hi-Lo up control (D1) to lower the head end of the bed and raise the foot end.• Reverse Trendelenburg: Press the Hi-Lo down control (D2) to lower the foot end of the bed and raise the head end. <p>Note: To replace the sleep surface to horizontal position after a Trendelenburg positioning, press the Trendelenburg control to deactivate it (LED will go off) and use the bed Hi-Lo controls to either raise or lower the sleep surface to its limit. Then set the bed to the desired height.</p>

AUTO CONTOUR POSITIONING (OPTIONAL)

The bed may be equipped with the optional Auto Contour positioning. The Auto Contour positioning partially raises the thigh section as the head section is raised. It prevents the patient from slipping toward the foot end of the bed.

To enable the Auto Contour positioning, deactivate the Knee Gatch lockout (**A2**). The lockout green LED will illuminate (On).

ACCESSORIES

Listed below are the accessories certified for the FL23E bed according to the IEC 60601-2-38 standard, as well as their maximum load capacity where applicable:

- Bed extension
- Bed extension cushions
- Two-function removable pendant control
- Siderail removable two-function control panel
- Monitor tray - Maximum load: 40 lbs (18 kg)
- Ø 1" removable anodized aluminum IV pole - Maximum load: 11 lbs (5 kg)
- Ø 1" fixed anodized aluminum IV pole - Maximum load: 11 lbs (5 kg)
- Ø 1/2" removable anodized aluminum IV pole - Maximum load: 11 lbs (5 kg)
- Emergency crank
- Overhead trapeze, model ST6020-24 from Texas Medical Industries - Maximum load: 150 lbs (68 kg)
- Padded siderail covers for full-length siderails (set of two)
- Padded siderail covers for half-length siderails (set of four)

Preventative Maintenance

CHECKLIST

Preventative maintenance should be performed at least once a year to ensure all bed features are operating properly. Ensure that any bed malfunction is promptly reported to your service personnel for immediate attention. When servicing, use only identical replacement parts provided by Stryker. Preventative maintenance may need to be performed more frequently based on the usage level of the bed.

- _____ All fasteners secure.
- _____ Inspect for excessive wear on the oil-impregnated bronze shoulder spacers found at the bed hinge points. **Do not lubricate these spacers, replace as needed.**
- _____ On both sides of the bed, depress fully down on the side of the pedal identified with a red sticker and ensure that the brakes are applied and the bed immobilized. Toggle the pedal to neutral and ensure the brakes are released.
- _____ On both sides of the bed, depress fully down on the side of the pedal identified with a green sticker and ensure that the steer mode - bed steer caster or optional 5th wheel - is engaged. Toggle the pedal to neutral and ensure that the steer mode disengages.
- _____ Siderails move upward and downward, and latch properly (see [page 14](#)).
- _____ All controls of the inner and outer siderail control panels (optional) working properly (see [page 15](#)).
- _____ All controls on the foot end and optional foot board panels working properly, including Trendelenburg and lockout LEDs (see [page 16](#)).
- _____ Fowler and Knee Gatch (if raised) flatten and the Fowler control motor resets itself automatically when one or both optional CPR handles is pulled until the Fowler is horizontal. Wait about 30 seconds - the time for the Fowler motor to reset itself - then raise the Fowler to ensure that the resetting of the motor has indeed occurred.
- _____ Verify the Fowler, Knee Gatch and Hi-Lo motions to ensure that the motion interrupt switch integrated to the four electric actuators is operating properly.
- _____ 120V optional auxiliary outlet working properly.
- _____ Optional night light working properly.
- _____ Head end bumpers tightly secured to frame and working properly.
- _____ No rips or cracks in mattress cover. Replace if ripped or cracked.
- _____ Power cord not frayed. Replace if protective sheath is cut or ripped.
- _____ No cables worn or pinched.
- _____ All electrical connections tight.
- _____ All grounds secure to the frame.
- _____ All casters roll properly. Check caster for cuts, wear, etc.
- _____ Measure current leakage and grounding continuity of the bed and the optional auxiliary outlet. Contact your local Technical Service department for the acceptable values.

Bed Serial Number:		

Completed by: _____

Date: _____

Cleaning

BED CLEANING

WARNING

Always unplug the bed power cord from the power source when cleaning or servicing the bed.

CAUTION

Do not use harsh cleaners, solvents or detergents. Do not steam clean, hose off or ultrasonically clean the bed. Do not immerse any part of the bed. The bed electrical parts may be damaged by exposure to water.

Germicidal disinfectant, used as directed, and/or Chlorine Bleach products **are not** considered mild detergents. These products are corrosive in nature and may cause damage to your bed if used improperly. If these types of products are used, ensure the beds are rinsed with clean water and thoroughly dried following cleaning. **Failure to properly rinse and dry the beds will leave a corrosive residue on the surface of the bed, possibly causing premature corrosion of critical components.** Failure to follow the above directions when using these types of cleaners may void this product's warranty.

Bed Cleaning

Hand wash all surfaces of the bed with a soft cloth moistened with a solution of lukewarm water and a mild detergent. Wipe the bed clean and dry thoroughly to avoid build up of cleaning solution.

MATTRESS CARE

WARNING

Inspect the mattress after each use. Discontinue use if any cracks or rips, which may allow fluid to enter the mattress, are found in the mattress cover. Failure to properly clean the mattress, or dispose of it if defective, may increase the risk of exposure to pathogenic substances and may bring about diseases to the patient and user.

Inspection

- Implement local policies to address regular care, maintenance, and cleaning of mattresses and covers. The cover cleaning procedure can be found below as well as on the mattress label.
- Inspect mattress cover surface, inside and outside, and the zip fasteners if mattresses have zip fasteners regularly for signs of damage. If the mattress cover is heavily stained, soiled or torn, remove the mattress from service.

Cleaning

Stains: Wash with lukewarm water using a mild detergent. Rinse with water and let dry. For tough stains use bleach diluted with ten parts of water.

Warranty

LIMITED WARRANTY

Stryker Medical Division, a division of Stryker Corporation, warrants to the original purchaser the Electric MedSurg Bed, Model FL23E, to be free from defects in material and workmanship for a period of One (1) year after date of delivery. Stryker's obligation under this warranty is expressly limited to supplying replacement parts and labor for, or replacing, at its option, any product which is, in the sole discretion of Stryker, found to be defective. If requested by Stryker, products or parts for which a warranty claim is made shall be returned prepaid to the factory. Any improper use or any alteration or repair by others in such manner as in Stryker's judgment affects the product materially and adversely shall void this warranty. Any repair of Stryker products using parts not provided or authorized by Stryker shall void this warranty. No employee or representative of Stryker is authorized to change this warranty in any way.

Stryker Medical Bed products are designed for a 15 year expected service life under normal use, conditions, and with appropriate periodic maintenance as described in the maintenance manual for each device. Stryker warrants to the original purchaser that the welds on its Bed products will be free from structural defects for the expected 15 year life of the Bed product as long as the original purchaser owns the product.

This statement constitutes Stryker's entire warranty with respect to the aforesaid equipment. **Stryker makes no other warranty or representation, either expressed or implied, except as set forth herein. There is no warranty of merchantability and there are no warranties of fitness for any particular purpose. In no event shall Stryker be liable here under for incidental or consequential damages arising from or in any manner related to sales or use of any such equipment.**

TO OBTAIN PARTS AND SERVICE

Stryker products are supported by a nationwide network of dedicated Stryker Field Service Representatives. These representatives are factory trained, available locally, and carry a substantial spare parts inventory to minimize repair time. Simply call your local representative, or call Stryker Customer Service USA at 1-800-327-0770, Canada 1-888-233-6888.

SERVICE CONTRACT COVERAGE

Stryker has developed a comprehensive program of service contract options designed to keep your equipment operating at peak performance at the same time it eliminates unexpected costs. We recommend that these programs be activated before the expiration of the new product warranty to eliminate the potential of additional equipment upgrade charges.

A Service Contract helps to:

- Ensure equipment reliability
- Stabilize maintenance budgets
- Diminish downtime
- Establish documentation for JCAHO
- Increase product life
- Enhance trade-in value
- Address risk management and safety

SERVICE CONTRACT PROGRAMS

Stryker offers the following service contract programs:

Service Agreement Options *	Gold	Silver	Parts	Labor	PM
Annually scheduled preventative maintenance	X				X
All parts	X	X	X		
All labor and travel	X	X		X	
Unlimited emergency service calls	X	X		X	
Priority one contact: two hour phone response	X	X	X	X	
Most repairs completed within 3 days	X	X		X	
JCAHO documentation	X	X		X	X
On-site record of PM & emergency service	X				X
Factory-trained Stryker service technician	X	X		X	X
Stryker authorized parts used	X	X	X	X	X
Service during regular business hours (8–5)	X	X	X	X	X

* Does not include maintenance due to abuse or for any disposable items. Stryker reserves the right to change options without notice.

Stryker Medical also offers personalized service contracts.
Pricing is determined by age, location, model and condition of product.

**For more information on our service contracts,
please call your local representative.**

RETURN AUTHORIZATION

Merchandise cannot be returned without approval from the Stryker Customer Service Department. An authorization number will be provided which must be printed on the returned merchandise. Stryker reserves the right to charge shipping and restocking fees on returned items. **Special, modified, or discontinued, items not subject to return.**

DAMAGED MERCHANDISE

ICC Regulations require that claims for damaged merchandise must be made with the carrier within fifteen (15) days of receipt of merchandise. **Do not accept damaged shipments unless such damage is noted on the delivery receipt at the time of receipt.** Upon prompt notification, Stryker will file a freight claim with the appropriate carrier for damages incurred. Claim will be limited in amount to the actual replacement cost. In the event that this information is not received by Stryker within the fifteen (15) day period following the delivery of the merchandise, or the damage was not noted on the delivery receipt at the time of receipt, the customer will be responsible for payment of the original invoice in full. Claims for any short shipment must be made within thirty (30) days of invoice.

INTERNATIONAL WARRANTY CLAUSE

This warranty reflects U.S. domestic policy. Warranty outside the U.S. may vary by country. Please contact your local Stryker Medical representative for additional information.

[Return To Table of Contents](#)

UNITED STATES
Stryker Medical
3800 E. Centre Ave.,
Portage, Michigan USA
49002

CANADA
Stryker Canada
45 Innovation Drive
Hamilton, Ontario Canada
L9H 7L8

EC	REP
----	-----

European Representative
Stryker France
ZAC Satolas Green Pusignan
Av. De Satolas Green
69881 MEYZIEU Cedex
France

stryker[®]