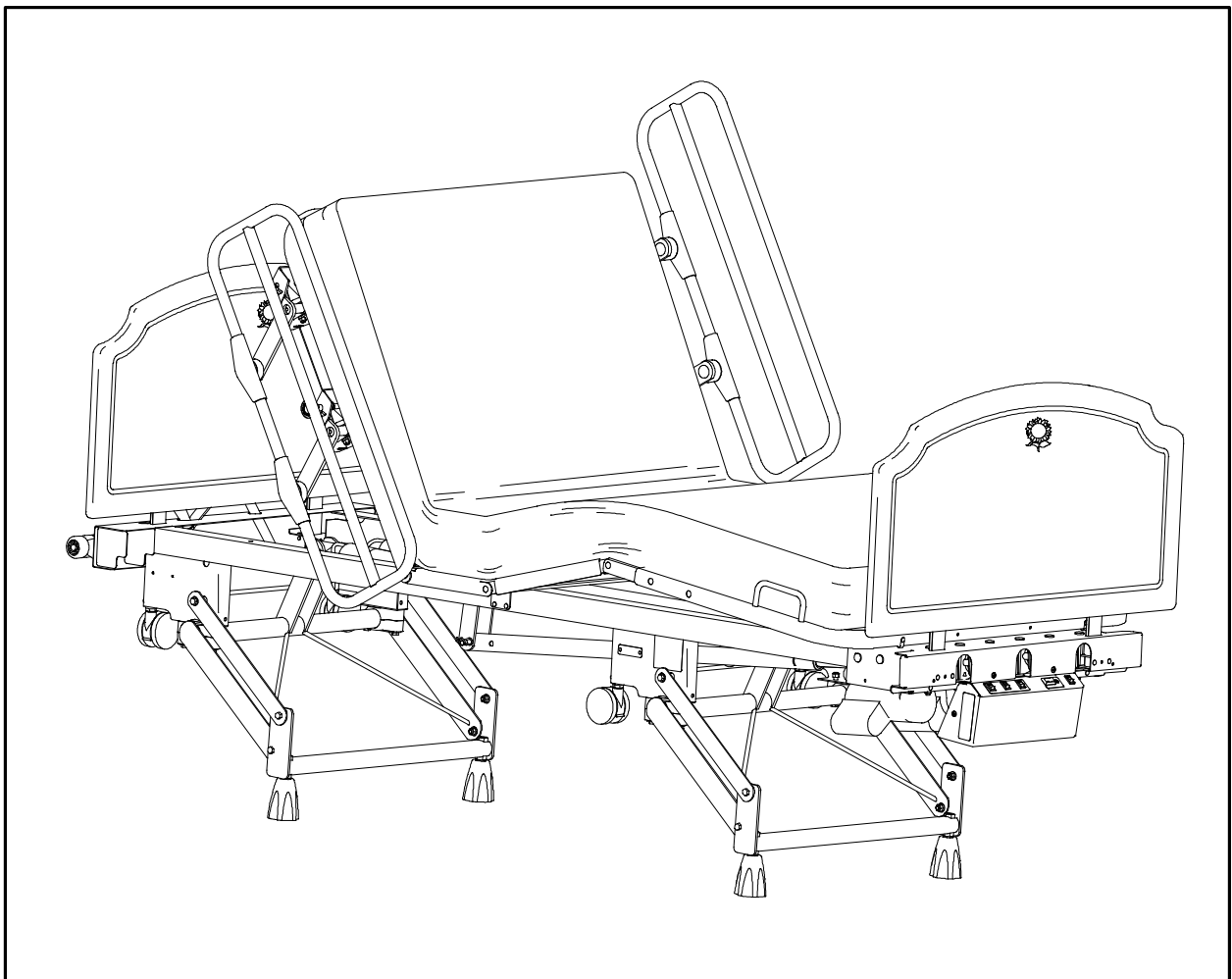


**The SUNFLOWER™**  
**MANUAL / ELECTRIC LONG TERM CARE BED**

Product Number: FL18M1  
FL18M2  
FL18E1  
FL18E2



**Technical Assistance and Parts**

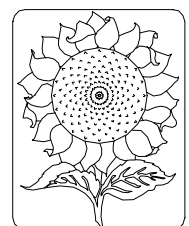
**1 800 428-5025 (Service in English in Canada)**

**1 800 361-2040 (Service in French in Canada)**

**1 800 327-0770 (In the United States)**

**E-Mail (Canada): [service@bertec.strykercorp.com](mailto:service@bertec.strykercorp.com)**

Manufactured by Stryker Bertec Medical Inc



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## NOTE

Stryker Bertec Medical Inc gives special attention to the quality of the information found in this document. Any comments on its content will be most welcomed. Please forward your remarks to the Technical Service department (see section 1.2).

## 1. INTRODUCTION

This Operations manual is designed to assist you with the operation of the Sunflower bed. Before operating the bed, it is important to thoroughly read and understand all information in this manual.

Hospital staff should be able to refer to this manual at all time when using the bed. A Maintenance manual, included in the Customer's Guide, is also available to assist you with the servicing of the bed.

This Operations manual is an integral part of the bed and should be turned over to the new user should the bed be sold or transferred.

### 1.1 BED SPECIFICATIONS \*

Load Capacity	450 lb (204 kg)
Fowler Angle	0° to 85°
Knee Gatch Angle	0° to 30°
Sleep surface	36" x 76" - 78-1/2" (91.5cm x 193 cm - 199 cm) Accommodates 35" x 76" - 78" - 80" (89 cm x 193 cm - 198 cm - 203 cm) mattresses.
Minimum/Maximum Bed Height -FL18E1/M1 -FL18E2/M2	11 to 25 in. (28 to 63.5 cm) 12 to 26 in. (30.5 to 66 cm)
Bed Stabilizing System -FL18E1/M1 -FL18E2/M2	Reverse Lock System (Bed Normally Rests on Legs) Floor Lock System (Bed Normally Rests on Casters)
Overall Weight: -FL18E1/E2 Fully Electric w/Full-Length Siderail and Designer Boards. -FL18M1/M2 w/Full-Length Siderail and Designer Boards.	288 lb (127 kg) 260 lb (118 kg)
Overall Dimensions -Length: 76" Bed w/o and w/Bumpers 80" Bed w/o and w/Bumpers -Width: Siderail down - Siderail up	84 1/8 in. - 86 1/4 in. (214 cm - 219 cm) 86 5/8 in. - 89 in. (220 cm - 226 cm) 39 1/4 in. - 42 in. (99.6 cm - 106.6 cm)
Electrical Requirements - All electrical requirements meet the CSA standard C22.2 No. 125 and UL 544 specifications for class 2G.	120 V, 50/60 Hz, 5 A

\* Stryker Bertec Medical Inc provides special attention to product improvement and reserves the right to change specifications without notice.

### 1.2 TECHNICAL SUPPORT

For questions regarding this product, please contact one of the following Technical Service departments or your local representative:

#### In Canada:

Stryker Bertec Medical Inc  
Service in English: 1 800 428-5025  
Service in French: 1 800 361-2040  
E-mail: [service@bertec.strykercorp.com](mailto:service@bertec.strykercorp.com)  
70, 5<sup>th</sup> Avenue, P.O. Box 128  
L'Islet (Quebec), G0R 2C0, Canada

#### In the United States:

Stryker Medical  
1 800 327-0770  
6300, Sprinkle Road  
Kalamazoo, MI 49001-9799  
USA

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### 1.3 WARNING / CAUTION / NOTE DEFINITIONS

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



---

#### **WARNING**

The personal safety of the patient or user may be involved. Disregarding this information could result in injury to the patient or user.

---



---

#### **CAUTION**

These instructions point out special procedures or precautions that must be followed to avoid damaging the equipment.

#### **NOTE**

Notes provide special information to make maintenance easier or important instruction clearer.

---

### 1.4 SAFETY PRECAUTIONS

The following is a list of safety precautions that must be observed when operating or servicing the Sunflower bed. They are repeated throughout the manual, where applicable. Carefully read and strictly follow them before operating or servicing this unit.



---

#### **WARNING**

- The Sunflower bed is not intended for pediatric use.
- It is important that all users have been trained and educated on the inherent hazards associated with the use of electric and manual beds. Bed mechanisms can cause serious injury to the patient or user. Operate bed only when all people are clear of the mechanisms.
- Electric Sunflower beds are equipped with a hospital grade plug for protection against shock hazard. It must be plugged directly into a properly grounded receptacle. Grounding reliability can be achieved only when a hospital grade receptacle is used.
- Always make sure the bed is resting on its legs or the caster brakes are applied when a patient is on the bed. Serious injury could occur if the bed moves while a patient is getting in or out of bed. Always check bed stability after having moved the bed and seated it on the floor or engaged the caster brakes.
- Possible fire hazard exists when this bed is used with oxygen administering equipment other than nasal, mask type or half bed-length tent type. It is recommended to disconnect the bed in such circumstances. When using a half bed-length tent type, ensure the siderails are outside the oxygen tent. Oxygen tent should not extend below the mattress support level.
- To help reduce the number and severity of falls by patients, always leave the bed in the lowest position and leave the siderails fully up when the patient is unattended. After raising the siderails, pull firmly on the siderail to ensure it is securely locked into the up position.
- Always keep siderails in the fully raised position and the sleep surface horizontal in its lowest position when the patient is sleeping unless the patient's medical conditions dictates otherwise. If the bed is equipped with half-length siderails and the sleep surface is not in the horizontal position, it is strongly recommended that only the head siderails be kept in their highest position and the foot siderails be stored on the side of the bed to avoid the risks of a patient becoming caught between the two siderail sections.

- Siderails, with or without their padded covers or nets, 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 utilize the siderails properly could result in serious patient injury.
  - When a patient's condition requires greater safety measures for their security, you can remove completely the pendant control and install protective pads on the siderails.
  - When the sleep surface sections are articulated, ensure that all spaces created by the raised siderails are clear to avoid the patient's limb becoming trapped between siderails and boards and between siderails (if applicable).
  - When large fluid spills occur in the area of the circuit board, cables and motors, immediately unplug the bed. 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.
  - Do not steam clean, hose off or ultrasonically clean the bed. Do not immerse any part of the bed. The electrical components of the bed may be damaged by exposure to water. Hand wash regularly all surfaces of the bed with a soft cloth moistened with a solution of lukewarm water and 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 are found in the mattress cover which may allow fluid to enter the mattress. Failure to properly clean mattress or dispose of defective mattress will increase the risk of exposure to pathogenic substances which may cause injury to the patient or user.
  - Always unplug the bed power cord from the wall outlet when cleaning or servicing the bed. When working under the bed with the bed in the high position, always place blocks under the sleep surface and lock the casters to prevent injury.
  - When using the emergency hand crank during a power failure, unplug the power cord from the wall receptacle so that unexpected resumption of power will not rotate handle. Remove and store the crank before reconnecting the bed.
  - **Do not** attempt to fit a Patient Helper system on the Sunflower bed. Due to the bed lightness of weight, no receptacles are provided at the head end of the bed to install a such a device as it may cause the bed to tip on its side.
- 



**CAUTION**

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- Ensure that any bed malfunction is promptly reported to maintenance personnel for immediate attention. Preventative maintenance should be performed periodically to ensure all bed features are functioning properly.
- Make sure that the power cord does not get trapped under a leg when the bed is seated on the floor, after having been moved.

---

## 1.5 WARRANTY

### Limited Warranty

All Stryker Bertec products are guaranteed against material or workmanship defects, improper operation of mechanisms, and premature wear of bed components under normal use conditions.

For questions regarding warranty, please contact Stryker Bertec Technical Service department (see section 1.2) or your local representative.

### To Obtain Service and/or Parts

For an on-site diagnosis and/or repair of a bed malfunction by a Stryker Field Service Representative or to order replacement parts (refer to section 1.6.2, "To Order Replacement Parts" in the Sunflower Maintenance Manual), simply contact our Technical Service department or your local representative.

### Return Authorization

Merchandise cannot be returned without approval from the Stryker Bertec Technical Service department. An authorization number will be provided which must be clearly printed on the returned merchandise. Stryker Bertec reserves the right to charge shipping and restocking fees on returned items.

### Damaged Merchandise

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 Bertec will file a freight claim with the appropriate carrier for damages incurred. Claims will be limited in amount to the actual replacement cost. In the event that this information is not received by Stryker Bertec within the fifteen (15) days period following the delivery of the merchandise, or the damage was not noted on the delivery notice 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 30 days of invoice.

---

## 1.6 BED CLEANING AND MATTRESS CARE



### **WARNING**

Always unplug the bed power cord from the wall outlet 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 warranty.

### **Cleaning Beds**

- 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**

Failure to properly clean mattress covers or dispose of defective mattress will increase the risk of exposure to pathogenic substances which may cause injury to the patient or user.

---

#### ***Inspection***

- Implement local policies to address regular care, maintenance, and cleaning of mattresses and covers. The cover cleaning and sterilization procedures can be found below and on the mattress label.
- Inspect mattress cover surface (also zip fasteners and cover inner surface if mattresses have zip fasteners) regularly for signs of damage. If the mattress cover is stained, soiled, or torn, examine the mattress, and seek instructions from the infection control nurses, as the mattress may harbour micro-organisms. If the mattress is wet or badly stained, withdraw the mattress from service.
- Seek the advice of infection control nurse in case of heavy soiling or infection, as general cleaning procedures are unlikely to be adequate.

#### ***Cleaning and Sterilization***

- Stains: Wash with lukewarm water using a mild detergent. Rinse with water and let dry.
- Tough stains and sterilization: Chlorine bleach diluted with ten parts of water.

## **1.7 SET-UP PROCEDURES**

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 tested.

---



#### **CAUTION**

Position the head end of the bed at least nine inches apart from the wall to prevent the wall from being damaged when the bed is lowered.

#### **NOTE**

Sunflower beds (**FL18**) may be fully or partially electric (**FL18E**) or completely manual (**FL18M**). Both electric and manual models may be equipped with either the Reverse Lock system (bed normally rests on its legs) (**FL18E1 / FL18M1**) or the Floor Lock system (bed normally rests on its casters) (**FL18E2 / FL18M2**).

### **Electric (FL18E1/E2) Bed Checklist**

---



#### **WARNING**

Electric Sunflower beds are equipped with a hospital grade plug for protection against shock hazard. It must be plugged directly into a properly grounded receptacle. Grounding reliability can be achieved only when a hospital grade receptacle is used.

---

#### **NOTE**

When partially electric, the bed is equipped with a combination of electric and manual actuators. Note that on partially electric beds, the Hi-Lo command and bed-on-caster warning LED are present only when the optional powered Hi-Lo function is installed on the bed.

---



- Plug the power cord into a properly grounded hospital grade wall receptacle.
  - For both models, ensure that the On/Off switch LED goes on when the switch is turned on.
- Check (if present) the yellow bed-on-caster warning LED and the casters for proper operation by doing the following:
  - FL18E1:** Press and hold the Hi-Lo switch in the foot end control panel to lower the bed until it automatically stops. Release switch, press and hold it again to lower the bed onto its casters. Ensure the yellow bed-on-caster warning LED blinks when the bed is lowered onto its casters and goes out when the bed is brought back onto its legs. Check casters for proper operation when the bed is resting on them.
  - FL18E2:** Press and hold the Hi-Lo switch in the foot end control panel to lower the bed until it rests onto its legs. Ensure that the yellow bed-on-caster warning LED goes off when the bed is lowered onto its legs and blinks when it is brought back onto its casters. Ensure the bed moves easily when resting on its casters. Apply the locking mechanism on all casters and try to move the bed to ensure it is properly stabilized.
- Connect the pendant control to the bed receptacles located on each side of the bed under the centre section of the sleep surface:
  - Deactivate (allows access to pendant control commands) the optional lockout controls and test all pendant controls for proper operation.
  - Activate the optional lockout controls in the foot end control panel and ensure that they effectively lock the corresponding pendant controls.
- Using the Hi-Lo switch and/or the pendant controls and/or the hand cranks, fully raise and lower the sleep surface, the Fowler and the Knee Gatch to ensure they all move smoothly.
- Foot support arm working properly.
- Check the emergency hand crank (optional) for proper operation in all available screw openings located at the foot end of the bed.
- Ensure the siderails raise and lower smoothly, and lock in the up position. If the bed is equipped with half-length siderails, ensure that rails lock in the down position.

If any problems are found during bed set-up, contact our Technical Service department (see section 1.2).

### **Manual (FL18M1/M2) Bed Checklist**

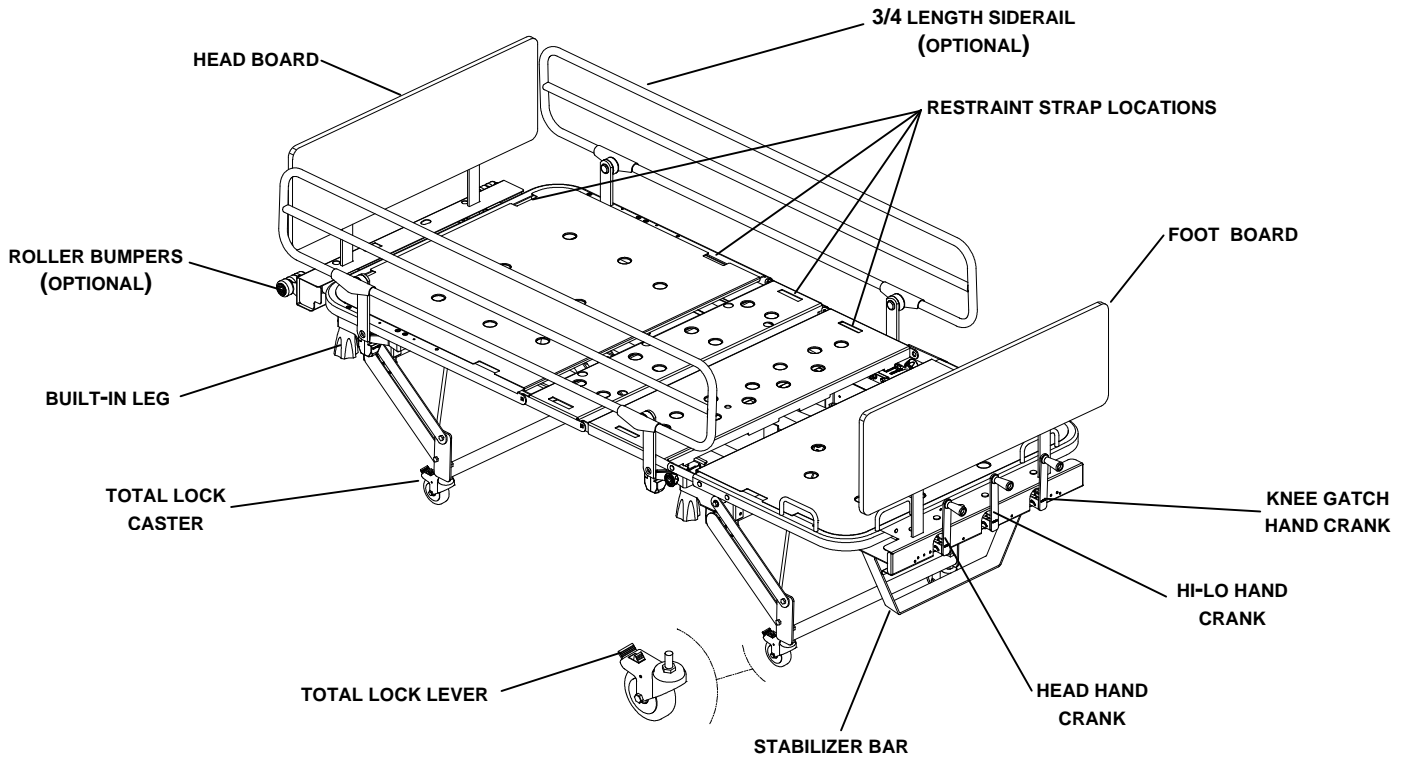
- Ensure the siderails raise and lower smoothly, and lock in the up position. If the bed is equipped with half-length siderails, ensure that rails lock in the down position.
- Using the three hand cranks, fully raise and lower the sleep surface, the Fowler and the Knee Gatch to ensure they operate properly.
- Foot support arm working properly.
- Ensure bed casters operate properly:
  - FL18M1:** Lower the sleep surface, using the hand cranks, until the bed rests on its casters and move the bed. Ensure the bed moves easily.
  - FL18M2:** Ensure the bed moves easily when resting on its casters. Apply the locking mechanism on each casters and try to move the bed to ensure it is properly stabilized.

If any problems are found during bed set-up, contact our Technical Service department (see section 1.2).

## **1.8 BED ILLUSTRATION**

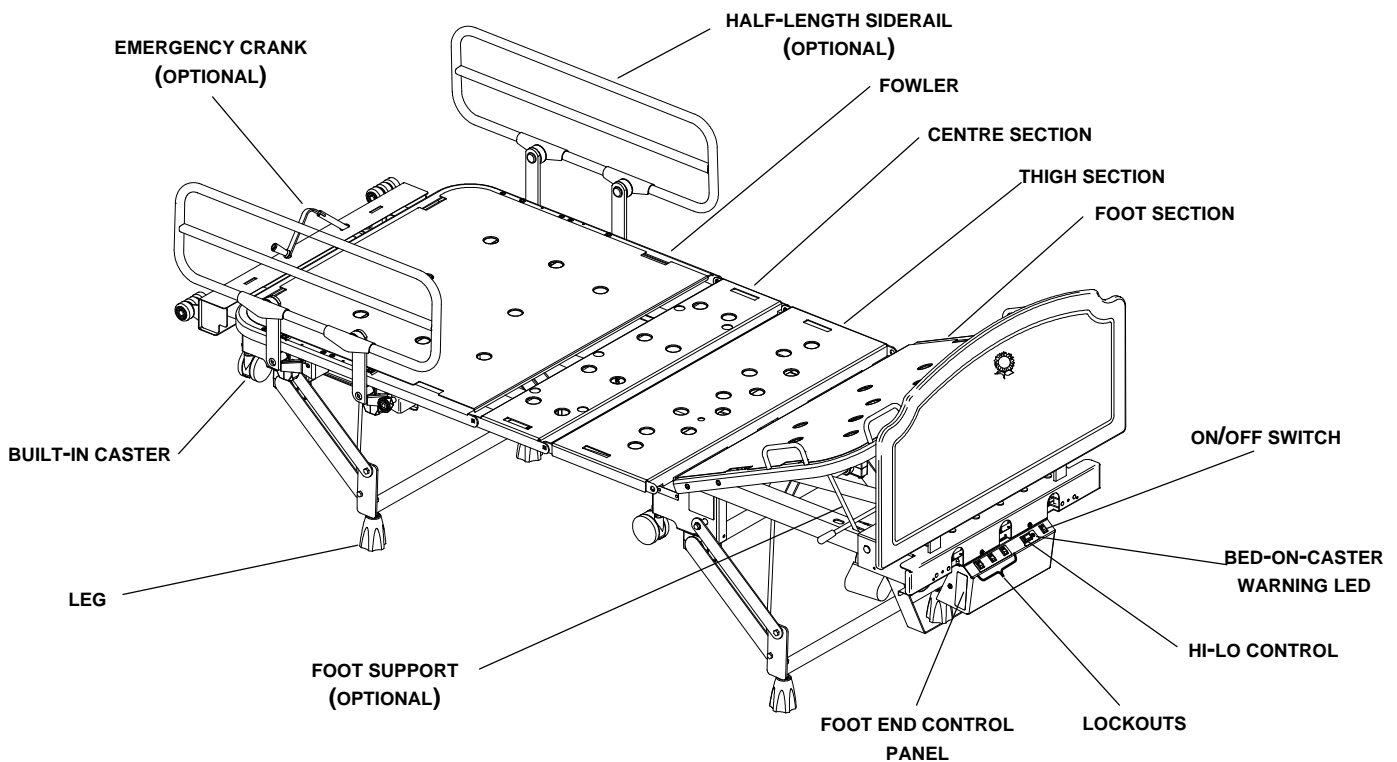
**FL18M2 Bed (Floor Lock System - Bed Normally Rests on Casters)**

Illustration of a fully manual bed equipped with three-quarter-length siderails.



**FL18E1 Bed (Reverse Lock System - Bed Normally Rests on Legs)**

Illustration of a fully electric bed equipped with half-length siderails.

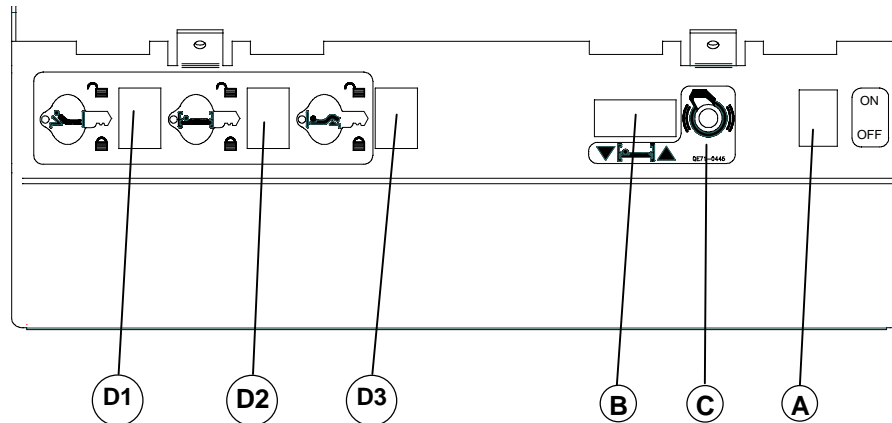


## 2. BED OPERATION GUIDE

The bed available positions are achieved either through electric commands, such as those found in the foot end control panel and the pendant control, or hand cranks.

### 2.1 POSITIONING THE BED THROUGH:

#### The Foot End Control Panel



**Figure 2.1**

#### **A: Main Power Switch**

Press switch upper or lower side to respectively activate or deactivate bed powered functions. In the ON position, the On/Off switch green LED will go on indicating that the bed functions are activated.

#### **NOTE**

When the power switch is turned off, all electric commands are inoperative but the bed is still powered to keep basic function active (yellow bed-on-caster warning LED will keep blinking if bed is resting on its casters).

#### **B - C: Hi-Lo Control and Yellow Bed-on-Caster Warning LED (optional)**

**B:** Press and hold left or right side of the switch to respectively lower or raise the sleep surface. Note that on the FL18E1 bed model, the sleep surface will automatically stop at a preset height when lowered to prevent casters from reaching the floor inadvertently.

**C:** The optional powered Hi-Lo function includes a yellow bed-on-caster warning LED. The yellow LED will blink as long as the bed is resting on its casters as a reminder that the bed is unstable.

#### **D1 to D3: Lockout Controls (optional)**

##### **D1: Fowler lockout switch**

Press the switch upper side to allow access or lower side to inhibit access to the pendant control Fowler function.

##### **D2: Hi-Lo lockout switch**

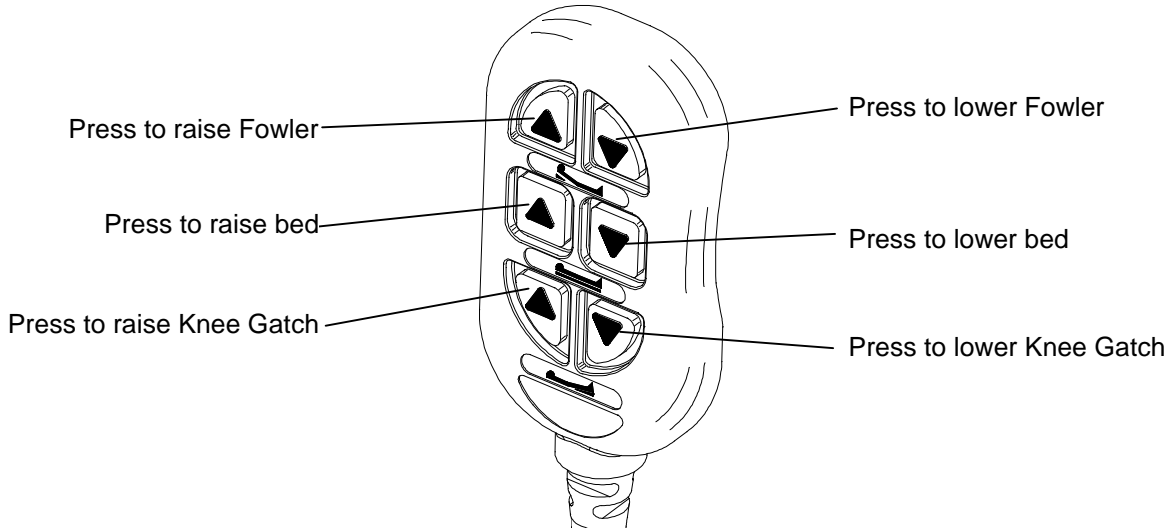
Press the switch upper side to allow access or lower side to inhibit access to the pendant control Hi-Lo function.

##### **D3: Knee Gatch lockout switch**

Press the switch upper side to allow access or lower side to inhibit access to the pendant control Knee Gatch function.

### **The Removable Pendant Control**

Pendant controls with varied combinations of bed function commands give access to the bed Fowler and/or Knee Gatch and/or Hi-Lo functions. These commands will function once the power switch is turned on. They can be selectively locked out using the lockout controls described above. Illustrated below is the three function pendant control.

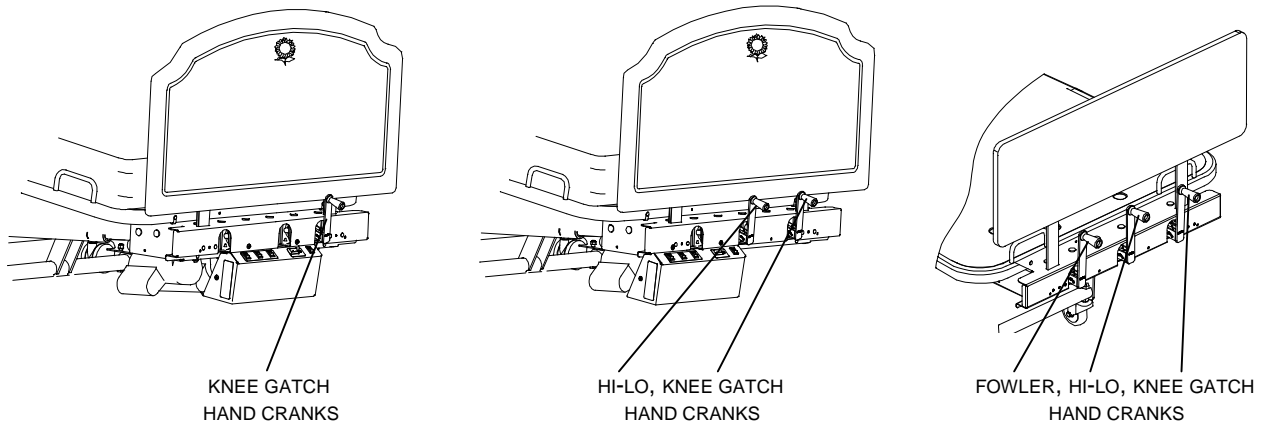


**Figure 2.1A**

### **The Hand Cranks**

Partially electric and manual Sunflower beds are equipped with hand cranks to adjust the bed positions.

Figure 2.1B illustrate different combinations of powered and manually operated bed functions.

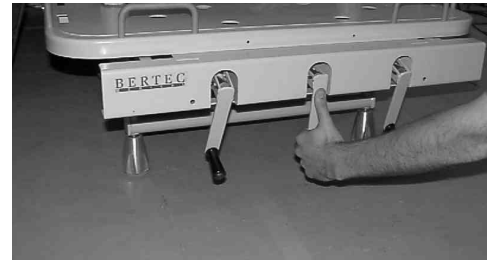


**Figure 2.1B**

**Operating the crank handle**

To use the crank handle:

1. Extend the appropriate crank handle from tucked away position.
2. Turn the crank handle clockwise (to raise) or counter clockwise (to lower) as needed.
3. Place the crank handle back to its tucked away position by simply pushing the top part of the handle with the thumb (where it says to push) while directing it under the bed.

**WARNING**

Always ensure that Reverse Lock (normally resting on their legs) beds equipped with a manual Hi-Lo actuator are still on their legs and stable after they have been lowered to a low position. These beds have no warning device to indicate that they rest on their casters. If no bed movement is intended, great care must be taken not to inadvertently lower the bed to the point where the casters come in contact with the floor thus destabilizing the bed.

**2.2 MOVING OR STABILIZING THE BED (ELECTRIC AND MANUAL BEDS)****WARNING**

Always ensure the bed is resting on its legs or the caster's brake are applied when a patient is on the bed. Serious injury could occur if the bed moves while a patient is getting in or out of bed. Always check bed stability after having moved the bed and brought it back onto its legs or engaged the caster brakes.

Two stabilizing principles characterize Sunflower beds: the Reverse Lock system and the Floor Lock system.

**Reverse Lock System (FL18E1 and FL18M1 Bed Models)**

These bed models are usually stabilized because they normally rest on their legs and have to be lowered onto their casters to be moved.

***Moving the Electric (FL18E1) and Manual (FL18M1) Beds***

- To move a bed equipped with a powered Hi-Lo function, press and hold the left side of the Hi-Lo switch (see **B**, section 2.1) to lower the sleep surface until it automatically stops, and then release, press and hold the switch again until casters reach the floor. The yellow bed-on-caster warning LED (see **C**, section 2.1) will then blink and continue so as long as the bed will be resting on its casters.
- To move a bed not equipped with the powered Hi-Lo function, lower the bed onto its casters using the hand crank. Note that the lowering movement has no preset stop and that there is no warning device to remind that the bed is resting on its casters, so precautions must be taken before using the bed to ensure it is stable (resting on its legs).

**CAUTION**

Ensure that the power cord does not get trapped under a leg when the bed is brought back on its legs after having been moved.

### **Floor Lock System (FL18E2 and FL18M2 Bed Models)**

These bed models are usually mobile because they normally rest on their casters and are stabilized by either engaging the caster locking mechanisms or lowering the bed on its legs.

#### ***Stabilizing the Electric (FL18E2) and Manual (FL18M2) Beds***

- To stabilize a bed equipped with a powered Hi-Lo function, press and hold the left side of the Hi-Lo switch (see **B**, section 2.1) until the legs reach the floor. Note that there will be no intermediary stop in the movement and that the yellow bed-on-caster LED (see **C**, section 2.1) will stop blinking as soon as the legs reach the floor. LED blinking will resume when the bed will be brought back onto its casters.
- To stabilize a bed not equipped with the powered Hi-Lo function, lower the bed onto its legs using the hand crank.
- These bed can also be stabilized by pressing down the four caster lock levers with the foot. To release the locking mechanism, push back the top part of the lock lever with the foot.

#### **NOTE**

Since beds equipped with the Floor Lock system normally rests on their casters, the yellow bed-on-caster warning LED (if present) will blink continually except when the bed is resting on its legs. Locking the casters has no effect on the blinking LED.

## **2.3 POSITIONING SIDERAILS**

The Sunflower may be equipped with three different types of siderails: full length, three-quarter length and half-length (head only). They raise and lower through a rotational movement.

### **Raising a Siderail**

#### ***Full length and three-quarter length siderails:***

To engage the siderail, grip the rail and swing it upward toward the head end of the bed until full height is reached and rail locks into position.

#### ***Half-length siderail:***

To engage a half-length siderail, grip the rail, pull the release latch knob and swing rail upward toward the head end of the bed until full height is reached and rail locks into position.

### **Lowering a siderail**

To disengage a siderail, grip the upper part of the rail with one hand and pull the release latch knob with the other. Swing rail down towards the foot end of the bed. The half-length siderail is the only type of rail that will latch when the low position is reached.



#### **WARNING**

Be sure siderail is locked securely into position. Siderails, with or without their padded covers or nets, 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 utilize the siderails properly could result in serious patient injury.

---

## 2.4 HEAD AND FOOT BOARDS

### **Removing Boards**

Seize both ends of the board and lift it up until the posts come out of their sockets.

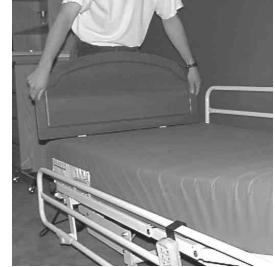
### **Replacing Boards**

#### ***Head board:***

Insert board with posts facing toward the outer side of the bed.

#### ***Foot board:***

Insert board with posts facing toward the inner side of the bed.



## 2.5 PATIENT RESTRAINT STRAP LOCATIONS

The bed is equipped with 12 separate locations for installing patient restraint straps. Ten of them are located on the mattress support edges directly across from each other whereas the remaining two are located on the top part of the Fowler, parallel to the head board (see section 1.9, "Bed Illustration").

## 2.6 FOOT SECTION SUPPORT ROD (OPTIONAL)

An optional foot section support rod enables the positioning of the bed in the vascular and Trendelenburg positions.

### **Vascular Positioning**

The vascular position is obtained by combining the raised Knee Gatch and the supported foot section. Once the Knee Gatch is raised, lift the foot section and position the support rod in the catches.



### **Trendelenburg Position**

The Trendelenburg position is obtained much the same way as is the vascular position. Once the Knee Gatch is raised and the foot section is supported, simply lower the Knee Gatch until a straight slope is obtained.



## 2.7 EMERGENCY CRANK (OPTIONAL)

The emergency crank allows the adjustment of the mattress support sections and the bed height in the event of a power failure.



### **WARNING**

When using the emergency crank during a power failure, unplug the power cord from the wall receptacle so that unexpected resumption of power will not rotate handle. Remove and store the crank before reconnecting the bed.

### **Operating the Emergency Crank**

Insert the crank into the appropriate actuator opening at the foot end of the bed, and rotate crank in the direction indicated to raise or lower as needed.

### **Storage**

The emergency crank is stored at the head end of the bed (see section 1.9, "Bed Illustration"). Always store the handle after use.