

ZOOM<sup>®</sup> Critical Care Bed Model 2040

# SCRV/EP® Operations Manual



For parts or technical assistance call: USA: 1-800-327-0770 (option 2) Canada: 1-888-233-6888

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#### Intended Use

This manual is designed to assist you with the operation of the Model 2040 Zoom<sup>®</sup> Patient Transport Frame. Read it thoroughly before using the equipment

#### Specifications

Safe Working Load Note: Safe Working Load indicates the sum of the patient, mattress, and accessory weight. Scale System Capacity (optional equipment). Loads weighing up to		500 lbs	227 kg 227 kg
Scale System Accuracy (optional equipment)		<ul> <li>±1 pound of total patient weight at any bed position<sup>1</sup> (patients weighing 100 pounds or less)</li> <li>±1% of total patient weight at any bed position<sup>1</sup> (patients weighing greater than 100 pounds)</li> </ul>	
Overall Length/Width	Length	93"	236 cm
	Width	42.5"	108 cm
Minimum Bed Height		18"	46 cm
Maximum Bed Height (Standard) Maximum Bed Height (Enhanced) (Add 2 inches if the bed has 8" casters.)		30" to 31" 32" to 33"	76.2 cm. to 78.7 cm 81.2 cm. to 83.8 cm.
Fluor Access		16"	41 cm
Knee Gatch Angle		0° to 30°	
Back Angle		0° to 90°	
Trendelenburg/Reverse Trendelenburg		+10° to -12° ±1°	
Electrical Requirements		115 VAC, 60 Hz, 7.0 A	
Battery Voltage		24V, 31 Ah	
Outlet Option		125 VAC, 5A, 60 Hz	
$^{1}$ If the bed is equipped with the enhanced heig from 0° to $\pm 5^{\circ}$ Trend.	ght option, the scale ac	ccuracy is as describe	d above for litter angles
Mattress Specifications			
Thickness		6"	15.2 cm
Width		>= 35"	>= 88.9 cm
Length		>= 84"	>= 213.4 cm
ILD		80 lbs	36.3 kg

The above stated mattress specifications assist in ensuring the product conforms to HBSW and IEC specifications.

#### 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.

#### Warning / Caution / Note Definition

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



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.



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. Before operating the 2040 Zoom<sup>®</sup> Patient Transport Frame, it is important to read and understand all information in this manual. Carefully read and strictly follow the safety guidelines listed on this page. To ensure safe operation of the unit, methods and procedures must be established for educating and training hospital staffon the intrinsic risks associated with the usage of motorized electric frames..



Warning, Refer to Service/Maintenance Manual

, 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.

Mode of Operation: Continuous

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



In accordance with European Directive 2002/96/EC on Waste Electrical and Electronic Equipment, 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.

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- The 2040 Patient Transport Frame is equipped with a hospital grade plug for protection against shock hazard. It
  must be plugged directly into a properly grounded three-prong receptacle. Grounding reliability can be achieved
  only when a hospital grade receptacle is used.
- Serious injury can result if caution is not used when operating the unit. Operate the unit only when all persons are clear of the electrical and mechanical systems.
- To help reduce the number and severity of falls by patients, always leave the bed in the lowest position when the patient is unattended.
- When raising the siderails, listen for the "click" that indicates the siderail has locked in the up position. Pull firmly
  on the siderail to ensure it is locked into position. Siderails are not intended to be a patient restraint device. It is
  the responsibility of attending medical personnel to determine the degree of restraint and the siderail positioning
  necessary to ensure a patient will remain safely in bed.
- Always apply the caster brakes when a patient is getting on or off the bed. Always keep the caster brakes applied
  when a patient is on the bed (except during transport). Injury could result if the bed moves while a patient is getting
  in or out of bed.
- Ensure the brakes are completely released prior to attempting to move the unit. Attempting to move the unit with the brakes actuated could result in injury to the user and/or patient.
- Put the drive wheel in the neutral position and release the brakes before pushing the unit manually. Do not attempt to push the unit manually with the drive wheel engaged. The unit will be difficult to push and injury could result.
- The CPR emergency release requires assistance to lower the Back if the angle of the Back is above 80°. Attempting to lower the Back in this position without assistance may result in injury to the operator.
- The power save mode is activated after one hour on battery power with no motion release switch activation. Functions including Bed Exit, scale and motion will cease to operate when the unit enters the power save mode. Injury to the patient could occur if proper patient monitoring protocol is not observed.
- The Bed Exit System is intended only to aid in the detection of a patient exiting the unit. It is NOT intended to replace patient monitoring protocol. The bed exit system signals when a patient is about to exit. Adding or subtracting objects from the frame after arming the bed exit system may cause a reduction in the sensitivity of the bed exit system.
- To avoid pinching your fingers, place the I.V. pole in the upright position before using the drive handle.
- Always unplug the power cord and push the battery power on/off switch to the "OFF" position before service or cleaning. When working under the frame, always place blocks under the litter frame to prevent injury in case the Bed Down switch is accidently activated.
- Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.
- The 2040 Patient Transport Frame is intended for use by trained hospital personnel only.
- · Warning: Service only by qualified personnel. Refer to maintenance manual.
- Do not modify the 2040 Patient Transport Frame. Modifying the unit can cause unpredictable operation resulting in injury to the patient or operator. Modifying the unit will also void its warranty.
- When using any mattress and/or mattress overlay that increases the overall height greater than 6" extra caution and or operator supervision is required to help reduce the likelihood of a patient fall occurring.

To avoid possible injury and to assure proper operation when using a powered mattress replacement system such as XPRT:

- Confirm proper scale system operation following mattress installation. For best results, secure the therapy mattress power cord to prevent damage to the cord or interference with the bed frame and the scale system.
- Do not zero bed scales or weigh patient with Percussion, Vibration, Rotation or Turn-Assist active. Patient motion and position resulting from the dynamic therapy mattress may adversely affect scale system performance.
- Do no initialize ("arm") bed exit with Percussion, Vibration, Rotation or Turn-Assist active. The patient motion and position resulting from the dynamic therapy mattress may adversely affect bed exit system performance.
- When using an XPRT Therapy Mattress extra caution and or operator supervision is required to help reduce the likelihood of a patient fall occurring.

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- Use caution while maneuvering the unit with the drive wheel activated. Always ensure there are no obstacles near the unit while the drive wheel is activated. Injury to the patient, user or by standers or damage to the frame or surrounding equipment could occur if the unit collides with an obstacle.
- Use caution when transporting the unit down halls, through doors, in and out of elevators, etc. Damage to the siderails or other parts of the unit could occur if the unit comes in contact with walls or door frames.
- If unanticipated motion occurs, unplug the power cord from the wall socket, push the battery power on/off switch to the "OFF" position (the LED will not be illuminated) and actuate the drive wheel pedal to the neutral position.
- The siderails are not intended to be used as a pushing device. Damage to the siderails could occur.
- · The use of a mattress overlay may reduce the effectiveness of the siderail.
- When attaching equipment to the frame, ensure it will not impede normal operation. I.E.: Hooks on hanging equipment must not actuate control buttons, equipment must not hide the nurse call button, etc.
- Use caution when lowering the bed with items attached to the optional accessory rail. If caution is not used, items may contact the floor resulting in damage to the items and/or injury to the patient or user.
- The lockout buttons on the foot board lock the Fowler, Gatch and Bed Up/Down functions and prevent motion of the bed. It is the responsibility of attending medical personnel to determine whether these functions should be locked and to use the buttons accordingly.
- Scale function may be affected by siderail/caster interference. With the litter fully lowered or lowered in Reverse Trendelenburg, the siderails tucked under the litter in the storage position and the casters turned, there is the potential for interference between the siderail and the caster. Raise the siderails when lowering the litter to the full down position to prevent the interference from causing the bed's scale system to weigh inaccurately.
- If large fluid spills occur in the area of the circuit boards or motors, immediately unplug the power cord from the
  wall socket and push the battery power on/off switch to the "OFF" position. Remove the patient from the unit and
  clean up the fluid. Have maintenance completely check the unit. Fluids can short out controls and may cause
  the unit to operate erratically or make some functions completely inoperable. Component failure caused by fluids
  could even cause the unit to operate unpredictably and could cause injury to the patient. DO NOT put the unit back
  into service until it is completely dry and has been thoroughly tested for safe operation.
- Preventative maintenance should be performed at a minimum of annually to ensure all features are functioning as designed. Close attention should be given to safety features including, but not limited to:
  - Safety side latching mechanisms Ca
    - Caster braking systems
  - Leakage current 300 microamps max. No controls or cabling entangled in frame mechanisms
  - Frayed electrical cords and components All controls return to off or neutral position when released
- The battery tray assembly weighs 50 pounds. Take care when removing the two hex head screws securing it to the base frame or personal injury could result.
- · The 2040 Patient Transport Frame is not intended for pediatric use or for patients under 50 pounds.
- Because individual beds may have different options, foot boards should not be moved from one bed to another. Interchanging foot boards between beds could result in unpredictable bed operation.
- The weight of the I.V. bags should not exceed 40 pounds.
- I.V. Poles should not be used as a bed push/pull device.
- The cleanliness and integrity of both ground chains must be maintained to minimize static build up and discharge.
- · Do not add or remove weight when the bed exit system is armed.

The following Caution statements apply to the optional 110 V outlet:

- Maximum total load 5 A receptacle rating: 125 VAC, 5 A, 60 Hz.
- The total system chassis risk current should not exceed 300 uA
- · Grounding continuity should be checked periodically.
- Do not use for life sustaining equipment.
- Use only hospital grade equipment with electrical outlet.
- Unplug free standing equipment before transporting the bed.

#### *i*BED Awareness Option

In addition to the previous warnings and cautions, all of the following warnings and cautions apply to units equipped with the *i*BED Awareness option.

#### WARNING

- The optional *i*BED Awareness system only indicates the siderail position, it does NOT indicate if the siderail is locked. It is the caregiver's responsibility to ensure that the siderails are locked after every move and also before leaving a patient in the room.
- The optional *i*BED Awareness system indicator lights are only an aid to the caregiver but in no way replace the caregiver's responsibility of checking on patients. Caregivers should not rely on the lights to perform their duties.
- · Before arming the optional iBED Awareness system, the nurse must physically verify that siderails are locked.

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- If the optional *i*BED Awareness system is being used; ensure the bed is in the desirable state (*i*BED Awareness ON and with the light Green) before leaving the room.
- If the optional *i*BED Awareness system is being used and the *i*BED Awareness is alerting, do not turn off *i*BED Awareness as the display information to troubleshoot the bed will get lost.
- If the optional *i*BED Awareness system is being used; use of accessories that cover the alert light are not recommended.



Potential pinch points



It is important that the 2040 Patient Transport Frame is working properly before it is put into service. The following list will help ensure that each part of the unit is checked.

• Plug the power cord into a properly grounded, hospital grade wall receptacle. The 12 volt batteries that provide power to the drive wheel and back up power to the unit functions will charge whenever the power cord is plugged into the wall socket. The batteries require approximately 10 hours of charging time before the bed is put into service.

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The 2040 Patient Transport Frame is equipped with a hospital grade plug for protection against shock hazard. It must be plugged directly into a properly grounded three-prong receptacle. Grounding reliability can be achieved only when a hospital grade receptacle is used.

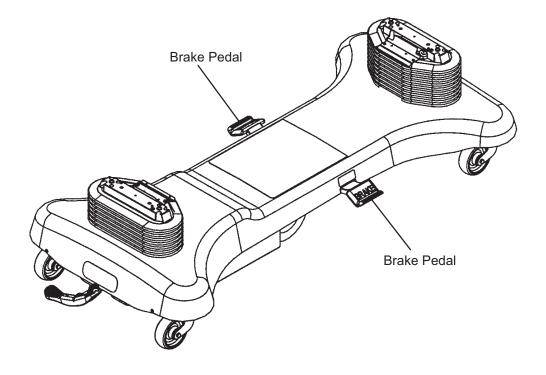
- Depress the pedal at either side of the frame fully to set the four wheel brakes and ensure all four casters lock. Depress the pedal again to release the brakes.
- Ensure the siderails raise and lower smoothly and lock in the up and intermediate positions.
- Run through each function on the foot board control panel and ensure that each is working properly (see function lockout system usage instructions, and weigh system control panel guide).
- · Ensure all functions are working properly on the siderail controls (see siderail instructions).
- · Ensure all motion functions are working properly at the head end (see control panel guide).
- Raise the Back up to approximately 60°. Squeeze the CPR release handle and ensure the Back and Knee will drop
  with minimal effort.
- Unplug the power cord from the wall socket. Push the battery power switch located on the lower left corner of the head end to the "ON" position. Again, verify each function on the foot board and siderails is operating properly.
- With the battery power switch in the "ON" position and the brakes engaged, verify the "Release Brakes" LED on the head end control panel is illuminated.
- With the battery power switch in the "ON" position and the drive wheel in the neutral position (not touching the floor), ensure the "Engage Drive Wheel" LED on the head end control panel is illuminated.
- Run through the operation of the drive wheel (refer to Drive Wheel Operation section) to ensure it is operating
  properly.
- If the bed is equipped with the Nurse Call option, verify it is functioning properly prior to patient use.

#### **Brake Pedal Operation**

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Always apply the caster brakes when a patient is getting on or off the bed. Always keep the caster brakes applied when a patient is on the bed (except during transport). Injury could result if the bed moves while a patient is getting in or out of bed.

Ensure the brakes are completely released prior to attempting to move the unit. Attempting to move the unit with the brakes engaged could result in injury to the user and/or patient.



To activate the brakes, push down once on one of the pedals located at the midpoint of the bed on both sides (identified by the label at right). The pedal will remain in the lowered position, indicating the brakes are engaged. To disengage the brakes, push down once and the pedal will return to the upper position. BRAKE PRESS TO SET OR RELEASE

#### Note

There are LED lights on the outside of the head end siderails (Refer to Head End Control Panel Operation Guide section) that will blink when the brakes are not engaged only if the power cord is plugged into a wall socket or the battery power switch is turned on. The brakes will still operate properly when the power cord is not plugged in. There is also a "Release Brakes" LED on the Head End Control Panel that will illuminate when the brakes are engaged while the battery power switch is on (Refer to Head End Control Panel Operation Guide).

#### **Battery Charging and Operation**

- 1. The unit has two 12 volt batteries to provide power to the drive wheel and back up power to the unit functions if the power cord is unplugged from the wall socket. Neither the unit functions nor the drive wheel will operate properly if the batteries are not sufficiently charged. The batteries require approximately 10 hours of charging time when they are fully discharged.
- 2. The batteries are charging whenever the power cord is plugged into a properly grounded, hospital grade wall socket. When the unit is stationary, the power cord should be plugged into a wall socket whenever possible.

#### Note

The battery will operate under slightly decreased power until it has run through 10-15 cycles of usage and recharging.

- 1. The "Plug Bed In To Charge" LED on the Head End Control Panel will be illuminated while the battery power switch is on if the battery level is low (Refer to Head End Control Panel Operation Guide). Plug the power cord into a wall socket to charge the batteries.
- 2. After one hour on battery power with no motion release switch activation, the unit will enter power save mode and none of the unit's powered functions will operate. Squeeze either of the motion release switches located under the drive handle to enable the unit functions.

#### Note

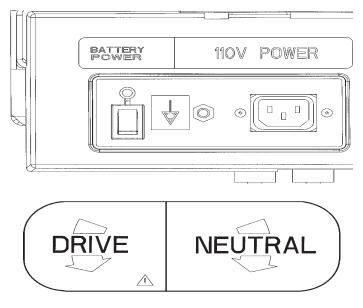
The three LED's on the Head End Control Panel may still be illuminated when the unit is in power save mode. The Battery Power LED located at the left side of the head end of the unit will be illuminated when the unit is in power save mode.



The power save mode is activated after one hour on battery power with no motion release switch activation. Functions including Bed Exit, scale and motion will cease to operate when the unit enters the power save mode. Injury to the patient could occur if proper patient monitoring protocol is not observe

#### **Drive Wheel Operation**

- Unplug the power cord from the wall socket and secure the cord sufficiently to prevent entanglement while the unit is in motion. The drive wheel will not operate if the power cord is plugged into the wall socket.
- Activate the power to the drive wheel by placing the battery power switch located at the left side of the head end of the litter in the "ON" position. The LED will illuminate.
- Engage the drive wheel by rotating the pedal located at the head end to the left as shown on the label. To place the drive wheel in the neutral position, rotate the pedal to the right.
- 4. Release the brakes. The drive system will not function while the brakes are engaged. The "Release Brakes" LED on the head end control panel will be illuminated if the brakes are engaged while the battery power switch is on.

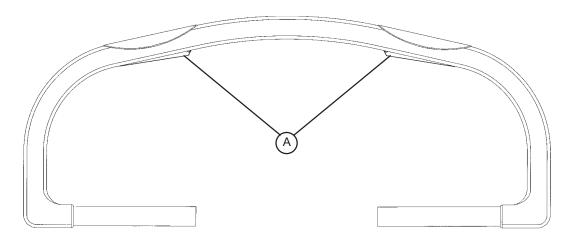




USE CAUTION while maneuvering the unit with the drive wheel activated. Always ensure there are no obstacles near the unit while the drive wheel is activated. Injury to the patient, user or by standers or damage to the unit or surrounding equipment could occur if the unit collides with an obstacle.

USE CAUTION when transporting the unit down halls, through doors, in and out of elevators, etc. Damage to the siderails or other parts of the unit could occur if the unit comes in contact with walls or door frames.

5. Grasp the drive handle at the two raised grip areas. Squeeze either of the motion release switches (A) located under the handle to enable the movement of the drive wheel. Either or both switches will enable movement but both switches must be released to stop movement.



#### **Drive Wheel Operation (Continued)**

6. While continuing to squeeze the switch(es), push the handle away from you or pull the handle toward you to initiate motion in that direction. The forward speed will increase proportionally to the distance the drive handle is moved. I.E. the farther forward the drive handle is pushed, the faster the unit will move. To stop motion, remove your hands from the switches and the handle.

#### Note

The drive wheel does not pivot. The unit cannot be moved directly sideways with the drive wheel engaged. With the drive wheel pedal in the neutral position and the unit's brakes released, the unit can be moved in any direction including sideways.

Driving a Zoom<sup>®</sup>-equipped unit over liquids or slick surfaces could decrease the traction of the drive wheel.



Put the drive wheel in the neutral position and release the brakes before pushing the unit manually. Do not attempt to push the unit manually with the drive wheel engaged. The unit will be difficult to push and injury could result.



When attaching equipment to the frame, ensure it will not impede normal operation. For example: Hooks on hanging equipment must not actuate control buttons, equipment must not hide the nurse call button, etc.

#### **Operating I.V. Poles**

To use the 2-Stage Permanently Attached I.V. pole:

#### Note

The 2-stage permanently attached I.V. pole is an option and may have been installed at either the head, foot or both ends. The choice was made at the time the unit was purchased.

- 1. Lift and pivot the pole from the storage position and push down until it rests in the receptacle.
- 2. To raise the height of the pole, pull up on the telescoping portion (A) until it locks into place at its fully raised position.
- 3. Rotate the I.V. hangers (B) to desired position and hang I.V. bags.
- 4. To lower the I.V. pole turn the latch (C) clockwise until section (A) lowers.

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The weight of the I.V. bags should not exceed 40 pounds.

# \Lambda WARNING

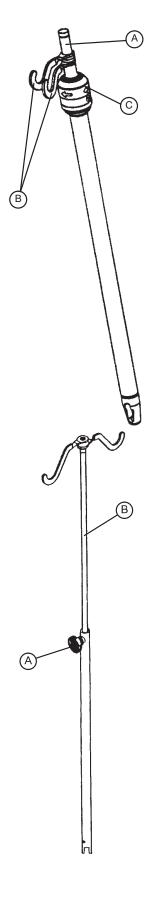
To avoid pinching your fingers, place the I.V. pole in the upright position before using the drive handle.

#### To use the "Removable" IV pole:

- 1. Install the pole at any of the four receptacles on the bed top (located on all four corners of the frame).
- 2. To raise the height of the pole, turn knob (A) counterclockwise and pull up on the telescoping portion (B) of the pole and raise it to the desired height.
- 3. Turn knob (A) clockwise to tighten the telescoping portion in place.

# 🕂 Caution

The weight of the I.V. bags should not exceed 40 pounds.



#### **CPR Emergency Release Usage**

If the Back and/or Knee is raised and quick access to the patient is needed, squeeze one of the two red emergency release handles, located under the litter top at the head section on either side of the unit, and the Back and Knee will lower to a flat position. The handle can be released at any time to stop the Back from lowering.



Assistance is required to lower the Back if the angle of the Back is greater than 80° when the CPR emergency release is activated. Attempting to lower the Back in this position without assistance may result in injury to the operator.

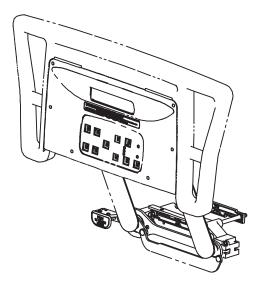
#### **CPR Board Usage**

The CPR board is stored on the head board. To remove it, pull it away from the head board and lift it out of the storage position. The head board can also be removed and used as an emergency CPR board.

#### Foley Bag Hooks Usage

The standard Foley bag hooks are found at three locations on both sides of the frame: Under the frame rail below the seat section, below the thigh section and at the extreme foot end of the frame. The patient weight reading on the scale system <u>will not</u> be affected when the Foley bag hooks are used.

#### **Positioning Siderails**



#### Note

The head end siderails can be locked at two positions (intermediate & full). The foot end siderails lock in the full up position only.

- All four siderails can slide away to the side of the bed when not in use. To remove the rail from the lowered position, grasp the handle on the siderail panel and pull outward.
- To engage the head end siderail, grasp the rail and swing it upward to full height. When the siderail is being raised, it does not lock in the intermediate position. To lower the siderail, push in the yellow release handle and rotate the siderail until it locks in the intermediate position. To lower the siderail fully, push in the yellow release handle again and rotate the siderail until it is completely lowered.

#### Note

To activate the siderail bypass mechanism, the rail must be fully lowered. If the rail is not completely lowered, the siderail will lock in the intermediate position when it is raised. There is no intermediate level and thus no bypass function on the foot end siderails.

• The same procedure is used to raise and lower the foot end siderail, however, the siderail swings toward the foot end of the frame instead of the head end. There is no intermediate position for the foot end siderails.



When raising the siderails, listen for the "click" that indicates the siderail has locked in the up position. Pull firmly on the siderail to ensure it is locked into position. Siderails are not intended to be a patient restraint device. It is the responsibility of attending medical personnel to determine the degree of restraint and the siderail positioning necessary to ensure a patient will remain safely in bed.



The siderails are not intended to be used as a pushing device. Damage to the siderails could occur. The use of a mattress overlay may reduce the effectiveness of the siderail.

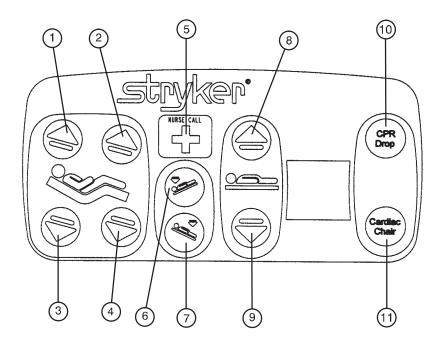
#### **Siderail Control Panel Lights**

- The head end siderails are equipped with lights to illuminate the siderail control buttons and the nurse call switch. The lights are activated at the foot board control panel.
- There are three settings for the intensity of the siderail control lights: Low, medium and high. When all the siderail lights are off, push the siderail control light button on the foot board once to turn on both the control lights and the nurse call indicator light. Push the button again to change the siderail control lights from low to medium setting, and again to change to the high setting. (The intensity of the nurse call indicator light does not change.)
- When all the siderail lights are on, pushing the button once will turn off only the siderail control lights and pushing it again will turn off the nurse call indicator light (refer to Foot Board Control Panel Operation Guide section).

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The intent of the nurse call indicator light on the siderails is to help the patient locate the button for contacting the nurse station. Turning this light off will compromise this ability, especially in a darkened room.

#### **Outside Siderail Function Guide**



- 1. Press to raise back section.
- 2. Press to raise knee section.
- 3. Press to lower back section.
- 4. Press to lower knee section.
- 5. Press to activate nurse call. This function is optional equipment.
- 6. Press to lower the head end (Trendelenburg).
- 7. Press to lower the foot end (Reverse Trendelenburg).
- 8. Press to raise the litter. If your bed is equipped with the enhanced height option, continue to hold the button an additional 5 seconds after the first stop. The litter will raise an additional 2 inches.
- 9. Press to lower the litter. The following functions are optional equipment.
- 10. Press to activate emergency CPR positioning. The Back will lower to flat, the Knee will lower to flat, the litter will level from Trendelenburg/reverse Trendelenburg, and the litter will lower to full down.
- 11. Press to activate Cardiac Chair positioning. The Knee will raise, the Back will raise or lower to 51° and the litter will tilt to -10° reverse Trendelenburg (foot end down). Release the button to stop bed movement. Hold the button until movement stops to complete the function.

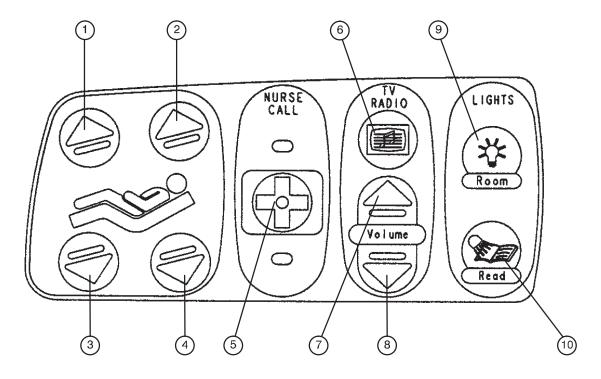
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When attaching equipment to the frame, ensure it will not impede normal operation. For example: Hooks on hanging equipment must not actuate control buttons, equipment must not hide the nurse call button, etc.

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The power save mode is activated after one hour on battery power with no motion release switch activation. Functions including Bed Exit, scale and motion will cease to operate when the unit enters the power save mode. Injury to the patient could occur if proper patient monitoring protocol is not observed.

#### Inside Siderail Function Guide



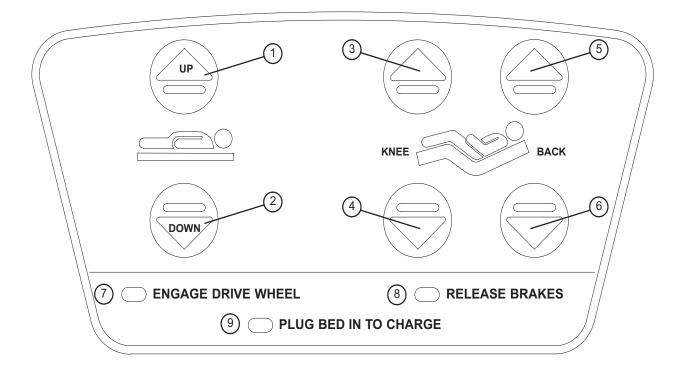
- 1. Press to raise knee section.
- 2. Press to raise back section.
- 3. Press to lower knee section.
- 4. Press to lower back section.

- 5. Press to activate the nurse call.
- 6. Press to turn on the TV or radio. Press again to change TV channels and to turn off the TV.
- 7. Press to increase the TV or radio volume.
- 8. Press to decrease the TV or radio volume.
- 9. Press to turn on the room lights. Press again to turn off.
- 10. Press to turn on the reading light. Press again to turn off.

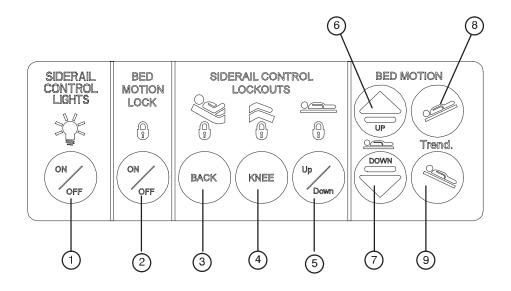
# 

When attaching equipment to the frame, ensure it will not impede normal unit operation. For example: Hooks on hanging equipment must not actuate control buttons, equipment must not hide the nurse call button, etc.

<sup>►</sup> The following functions are optional equipment.



- 1. Press and hold to raise the litter. If your bed is equipped with the enhanced height option, continue to hold the button an additional 5 seconds after the first stop. The litter will raise an additional 2 inches.
- 2. Press and hold to lower the litter.
- 3. Press to raise the Knee section.
- 4. Press to lower the Knee section.
- 5. Press to raise the Back section.
- 6. Press to lower the Back section.
- 7. The "Engage Drive Wheel" LED will be illuminated whenever the battery power switch is on and the drive wheel pedal is in the neutral position. The light will go off when the drive wheel is in the drive position.
- 8. The "Release Brakes" LED will be illuminated whenever the bed's brakes are engaged while the battery power switch is on. The light will go off when the brakes are disengaged.
- 9. The "Plug Bed In To Charge" LED will be illuminated while the battery power switch is on if the battery level is low. Plug the bed power cord into the wall socket to charge the batteries.



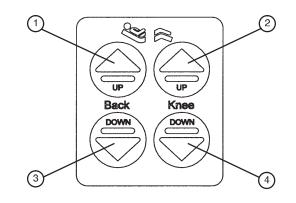
- 1. Press repeatedly for low, medium and high settings for the siderail control lights. Continue to press this switch to turn off the siderail control lights (Refer to Siderail control panel lights section) and the nurse call indicator light.
- 2. Press to lock out all motion controls on the siderails. Press again to unlock.
- 3. Press to lock out the Back motion control on the siderails. Press again to unlock.
- 4. Press to lock out the Knee motion control on the siderails. Press again to unlock.
- 5. Press to lock out the up/down motion controls on the siderails. Press again to unlock.
- 6. Press to raise the litter. Continue to hold the button an additional 5 seconds after the first stop. The litter will raise an additional 2 inches.
- 7. Press to lower the litter.
- 8. Press to lower the head end (Trendelenburg).
- 9. Press to lower the foot end (Reverse Trendelenburg).

# 

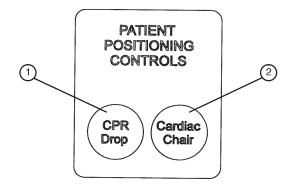
When attaching equipment to the frame, ensure it will not impede normal operation. For example: Hooks on hanging equipment must not actuate control buttons, equipment must not hide the nurse call button, etc. Because individual beds may have different options, foot boards should not be moved from one bed to another. Interchanging foot boards between beds could result in unpredictable bed operation.



The power save mode is activated after one hour on battery power with no motion release switch activation. Functions including Bed Exit, scale and motion will cease to operate when the unit enters the power save mode. Injury to the patient could occur if proper patient monitoring protocol is not observed.

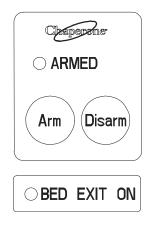


- 1. Press to raise back section.
- 2. Press to raise knee section.
- 3. Press to lower back section.
- 4. Press to lower knee section.



- 1. Press to activate the emergency CPR function. The Back will lower to flat, the Knee will lower to flat, the litter will level from Trendelenburg/reverse Trendelenburg, and the litter will lower to full down.
- 2. Press to activate the Cardiac Chair function. The Knee will raise, the Fowler will raise or lower to approximately 52° and the bed will tilt to approximately -12° reverse Trendelenburg (foot end down) or -14° if the bed has the enhanced height option. Release the button to stop bed movement: Hold the button until movement stops to complete the function.

#### Chaperone® Bed Exit (Optional Equipment)



#### For beds with a scale system:

#### Note

If the scale system is in use, it will switch to "off" when the "ARM" key is pressed.

- 1. Before putting the patient on the bed, the scale system must be zeroed for the Bed Exit System to function properly (Refer to Scale System Usage section for instructions on zeroing the scale system).
- 2. Put the patient on the bed and push the "ARM" key to activate the Bed Exit function. The "ARMED" light will come on.
- 3. To deactivate Bed Exit, push the "DISARM" key. The "ARMED" and "BED EXIT ON" lights will turn off.

#### For beds without a scale system:

- 1. Before putting the patient on the bed, press and hold the "ARM/DISARM" and the "SELECT ZONE" keys together for 5 seconds. The top light will begin to flash.
- 2. Release the "ARM/DISARM" and the "SELECT ZONE" keys and do not touch the bed until the top light stops flashing.
- 3. Put the patient on the bed and push and release the "ARM/DISARM" key (top light will come on).
- 4. The Bed Exit system with Zone Control will automatically select the first zone. To change the zone, push and hold the "SELECT ZONE" key until the light indicating the desired zone comes on.
- 5. To deactivate Bed Exit, push the "ARM/DISARM" key. The selected zone light and "BED EXIT ON" light will turn off.

# 

To avoid possible injury and to assure proper operation when using a powered mattress replacement system such as XPRT, do not initialize ("arm") bed exit with Percussion, Vibration, Rotation or Turn–Assist active. The patient motion and position resulting from a dynamic therapy mattress may adversely affect bed exit system performance.

#### Chaperone<sup>®</sup> Bed Exit With Zone Control (Optional equipment)



#### For beds with a scale system:

#### Note

If the scale system is in use, it will switch to "off" when Bed Exit is armed.

- 1. Before putting the patient on the bed, the scale system must be zeroed for the Bed Exit System to function properly (Refer to Scale System Usage section for instructions on zeroing the scale system).
- 2. Put the patient on the bed and push and release the "ARM/DISARM" key (top light will come on).
- 3. The Bed Exit system with Zone Control will automatically select the first zone. To change the zone, push and hold the "SELECT ZONE" key until the light indicating the desired zone comes on.
- 4. To deactivate Bed Exit, push the "ARM/DISARM" key. The selected zone light and "BED EXIT ON" lights will turn off.

#### For beds without a scale system:

- 1. Before putting the patient on the bed, press and hold the "ARM/DISARM" and the "SELECT ZONE" keys together for 5 seconds. The top light will begin to flash.
- 2. Release the "ARM/DISARM" and the "SELECT ZONE" keys and do not touch the bed until the top light stops flashing.
- 3. Put the patient on the bed and push and release the "ARM/DISARM" key (top light will come on).
- 4. The Bed Exit system with Zone Control will automatically select the first zone. To change the zone, push and hold the "SELECT ZONE" key until the light indicating the desired zone comes on.
- 5. To deactivate Bed Exit, push the "ARM/DISARM" key. The selected zone light and "BED EXIT ON" light will turn off.

# 

To avoid possible injury and to assure proper operation when using a powered mattress replacement system such as XPRT, do not initialize ("arm") bed exit with Percussion, Vibration, Rotation or Turn-Assist active. The patient motion and position resulting from a dynamic therapy mattress may adversely affect bed exit system performance.

## Chaperone<sup>®</sup> Bed Exit With Zone Control (Continued)

#### Chaperone<sup>®</sup> Zone Settings

The first zone (top indicator light) is the traditional Bed Exit zone. The patient can move around the bed freely but cannot fully exit the bed or the alarm will sound.

The second zone (middle indicator light) is more restrictive than the first zone. When the zone is selected, the bed measures the location of the patient's center of gravity. If the patient's center of gravity moves from the original location more than 6.5 inches to either side or 13 inches toward the head or foot, an alarm will sound.

The third zone (bottom indicator light) is the most restrictive zone. When the zone is selected, the bed measures the location of the patient's center of gravity. If the patient's center of gravity moves from the original location more than 1 inch to either side or 1 inch toward the head or foot, an alarm will sound.

#### Note

All zone dimensions are  $\pm$  .5 inches.

#### **LED Display Panel Guide**

The LED Display Panel is located at the foot end of the frame, below the Control Panel.



- "POWER" will light when the power cord is plugged into the wall receptacle or the battery power switch is on.
   Will blink if the 9 V Nurse Call battery needs to be replaced.
- "BED MOTION LOCKED" will light when the Bed Motion Lock has been activated.

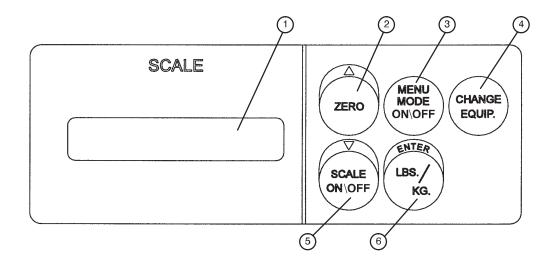
#### Function Lockout System

- 1. To lock out all motion switches on the unit, press the "ON/OFF" switch in the "Siderail Control Lockouts" module. The "padlock" symbol on the control panel will be lighted when that function is locked out.
- 2. To lock out the movement functions on the siderails and prevent the patient from changing the positioning of the frame, press the "BACK" or "KNEE" switch in the "Siderail Control Lockouts" module. The "padlock" symbol on the control panel will be lighted when that function is locked out.
- 3. To lock out the up/down motion on the siderails, press the Up/Down switch in the "Siderail Control Lockouts" module. The "padlock" symbol on the control panel will be lighted when that function is locked out.

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The lockout buttons on the foot board lock the Fowler, Gatch and Bed Up/Down functions and prevent motion of the bed. It is the responsibility of attending medical personnel to determine whether these functions should be locked and to use the buttons accordingly.

#### Scale System Control Panel Guide (Optional Equipment)



- 1. LCD displays patient weight. Trendelenburg angle is displayed when the scale is not active.
- 2. Press to zero scale system (Refer to Scale System Usage section). Also press to scroll while Menu Mode is active.
- 3. Press to enter and exit the Menu Mode.
- 4. Press when adding or removing equipment on the frame (Refer to Scale System Usage section).
- 5. Press to turn scale system on and off. Also press to scroll while Menu Mode is active.
- 6. Press to change weight from pounds to kilograms or back (Refer to Scale System Usage section). Also press while using the Menu Mode.
- 7. Press to display the Trendelenburg or Fowler angle (Refer to Scale System Usage section).

#### Note

If weight is displayed, SCALE ON/OFF must be pressed to turn off the scale before the Trend. or Fowler angle will display.

# 

Scale function may be affected by siderail/caster interference. With the litter fully lowered or lowered in Reverse Trendelenburg, the siderails tucked under the litter in the storage position and the casters turned, there is the potential for interference between the siderail and the caster. Raise the siderails when lowering the litter to the full down position to prevent the interference from causing the bed's scale system to weigh inaccurately.

The power save mode is activated after one hour on battery power with no motion release switch activation. Functions including Bed Exit, scale and motion will cease to operate when the unit enters the power save mode. Injury to the patient could occur if proper patient monitoring protocol is not observed.

#### Scale System Control Panel Guide (Optional Equipment) (Continued)

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To avoid possible injury and to assure proper operation when using a powered mattress replacement system such as XPRT:

- Confirm proper scale system operation following mattress installation. For best results, secure the mattress power cord to prevent damage to the cord and interference with the bed frame and the scale system.
- Do not zero bed scales or weigh patient with Percussion, Vibration, Rotation or Turn-Assist active. Patient motion and position resulting from the dynamic therapy mattress may adversely affect scale system performance.

For more detailed operating instructions see the following:

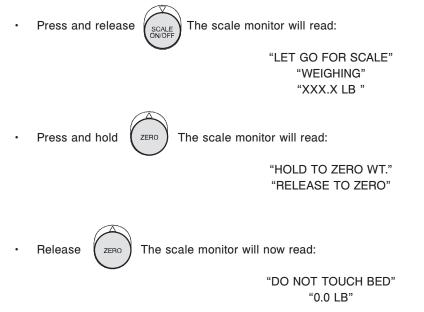
- 1. Preparing The Unit For Patient Stay/Zeroing the Scale System page 31
- 2. Activating the Scale System and Displaying Patient Weight page 31
- 3. Adding or Removing Items During a Patient's Stay -page 32
- 4. Displaying Trendelenburg or Fowler Angle page 33
- 5. Converting the Patient's Weight page 33
- 6. Viewing Patient Weight In Gain/Loss Mode page 35
- 7. Changing the Numerical Value Of Displayed Weight page 36

## Preparing The Bed For Patient Stay/Zeroing The Scale System

#### Note

Do not zero the bed while a patient is in bed. If this should occur, remove the patient and zero the bed again. If Bed Exit is armed, it must be disarmed before the scales can be zeroed.

· Prepare the bed for the patient's stay by adding/removing linens, pillows, etc



The bed is now ready for the patient.

#### Note

If there is a problem with a load cell or another component of the scale system, the system will try to zero for 30 seconds, and the scale monitor will read:

"UNABLE TO ZERO" "TRY AGAIN"

If the problem continues, after 3 attempts at zeroing, the scale system will lock and the scale monitor will read:

"Scale Sys. Error" "Call for service"

### Activating The Scale System And Displaying Patient Weight

Press and release



The scale monitor will read:

"LET GO FOR SCALE" "WEIGHING" "XXX.X LB"

## Adding Or Removing Items During A Patient's Stay

If it is necessary to add or remove items (monitors, pumps, etc.) during the patient's stay, to activate the scale system. After the scale monitor reads: "XXX.X LB", press and press and release CHANGE EQUIP. The scale monitor will read: hold "HOLD TO START" "RELEASE TO START" CHANGE EQUIP. The scale monitor will read: Release "DO NOT TOUCH BED" "ADD/REMOVE EQUIP." CHANGE EQUIP. Add or remove the equipment and press The scale monitor will read: "RELEASE TO FIN." CHANGE EQUIP. The scale monitor will read: Release "DO NOT TOUCH BED" "XXX.X LB"

The weight displayed will be that of the patient only.

- If the CHANGE EQUIPMENT function is started but not finished, after 50 seconds the monitor will read:
  - "HIT CH. EQ. TO END"
- Press CHANGE The scale monitor will read:
   "RELEASE TO FIN."

CHANGE Dress of the scale monitor will read:

"DO NOT TOUCH BED" "XXX.X LB"

Release

## **Displaying Trendelenburg Or Fowler Angle**

· If scale system is on, press and hold



The scale monitor will read:

"EXIT SCALE" "FOWLER ANGLE X°" (default setting) or "TREND ANGLE X°"

· If scale system is not active, the scale monitor will read:

"FOWLER ANGLE X" (default setting) or "TREND ANGLE X"

#### **Converting The Patient's Weight**

Press and release

LBS./ KG.

The scale monitor will read:

"WEIGHT NOW KGS" "XXX.X KG"

• Repeat the procedure to return to pounds. The display will read:

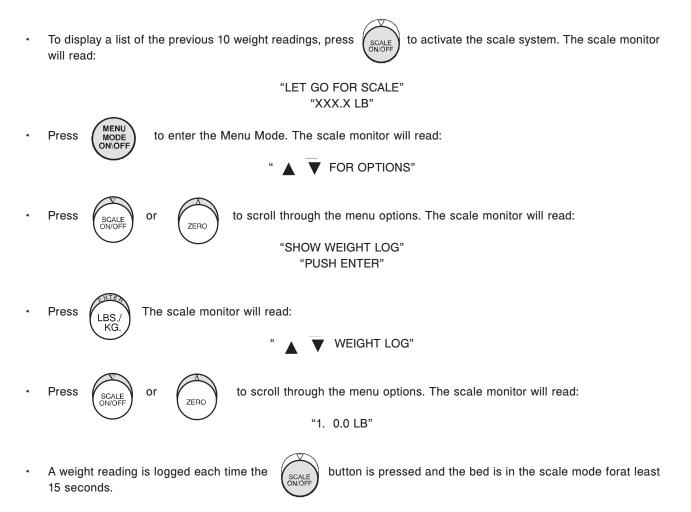
"WEIGHT NOW LBS" "XXX.X LB"

· If the unit of measurement has been locked, the display will read:

**"UNITS ARE LOCKED"** 

A service technician must be called to unlock the unit of measurement.

## **Displaying The Weight Log**

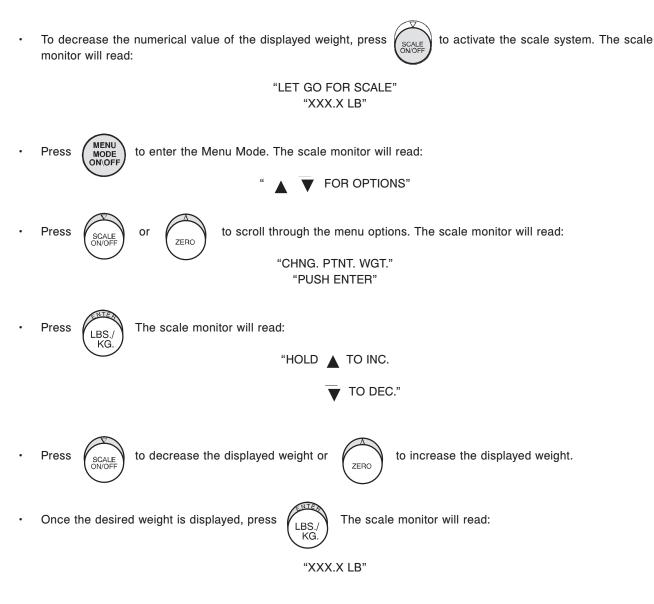


The first weight reading displayed (1.) is the most recent. If the change in the patient's weight since the last reading was taken is less than .2 pounds, the log will not update. Zeroing the scale system clears the weight log.

### Viewing Patient Weight In Gain/Loss Mode

• To view the patient's weight and to begin totaling the amount of weight the patient has gained or lost, press to activate the scale system. The scale monitor will read: "LET GO FOR SCALE" MENU to enter the Menu Mode. The scale monitor will read: Press MODE ON\OF FOR OPTIONS" to scroll through the menu options. The scale monitor will read: Press or ZEBO "START GAIN/LOSS" "PUSH ENTER" Press The scale monitor will read: LBS./ KG "DO NOT TOUCH BED" "XXX.X LB G XX.X" MENU MODE ON\OFI to enter the Menu Mode. The scale monitor will read: To exit Gain/Loss mode, press FOR OPTIONS" Press to scroll through the menu options. The scale monitor will read: or ZERO "QUIT GAIN/LOSS" **"PUSH ENTER"** The scale monitor will read: Press LBS./ KG "XXX.X LB"

## Changing The Numerical Value Of Displayed Weight

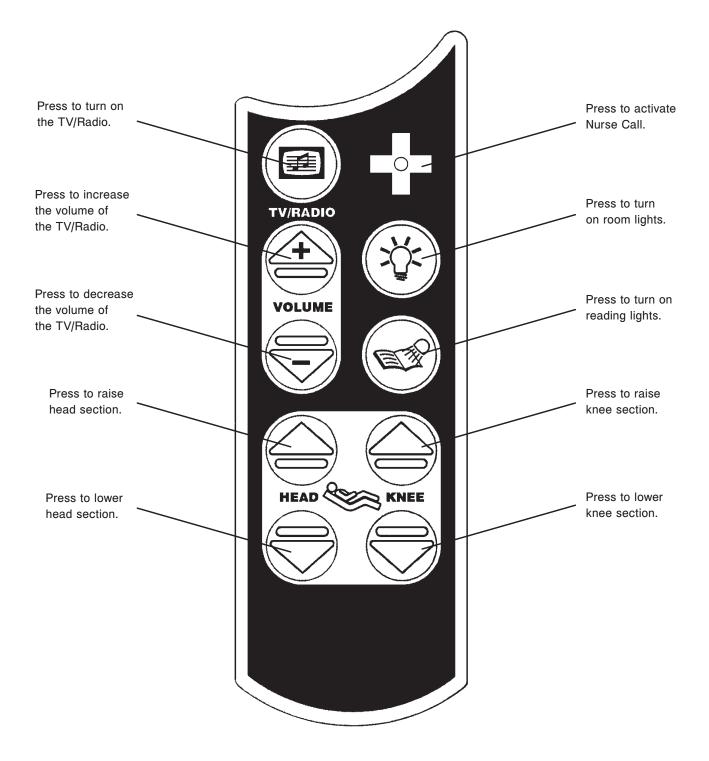


#### Note

If one of the load cells is malfunctioning or overloaded, the scale monitor will read:

"Scale Sys. Error" "Call for service"

Call a service technician.



# Intended Use

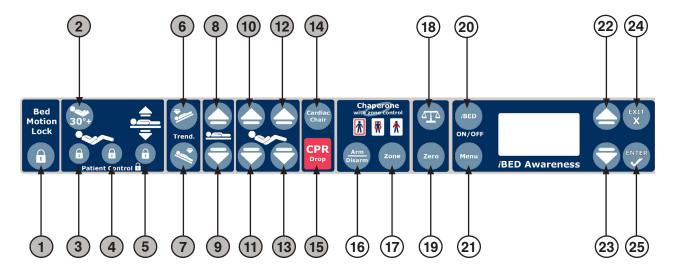
The *i*BED Awareness system is intended to serve as a secondary monitoring system, informing the operator via a visual or audible alert when a preset condition changes.

- When the *i*BED Awareness is turned "On", the system has the ability to automatically monitor the following:
  - Brake Set/Not Set
  - Siderail Position
- Additionally, when the bed is in low height and/or Chaperone Bed Exit system is armed, the system has the ability to monitor these features when *i*BED Awareness is turned "On".

# **Footboard Control Panel Buttons**

LOCKS	MOTION	BED EXIT SCALE	iBED / MENU
2	6 8 10 12 14	18	20 22 24
Bed Motion Lock	Trend.	Chaperone with zone control Arm Disarm Zone Zero	IBED ON/OFF Menu iBED Awareness
1 3 4 5	7 9 11 13 15	16 17 19	21 23 25

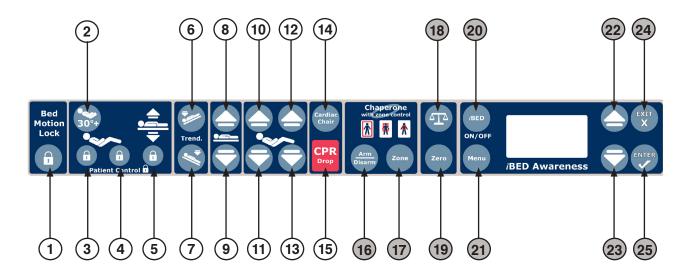
Button	Name	Button	Name	Button	Name
1	Bed Motion Lock	9	Bed Down	17	Bed Exit Zone Control
2	Fowler 30 <sup>+</sup> Lock	10	Fowler Up	18	Scale
3	Patient Fowler Lock	11	Fowler Down	19	Scale Zero
4	Patient Gatch Lock	12	Gatch Up	20	<i>i</i> BED On/Off
5	Patient Bed Up/ Down Lock	13	Gatch Down	21	Menu
6	Trend	14	Cardiac Chair	22	Menu Up
7	Reverse Trend	15	CPR Drop	23	Menu Down
8	Bed Up	16	Bed Exit Arm/Disarm	24	Exit X
				25	Enter ✓



# **Footboard Control Panel Functions**

	Button	Name	Function
	1	Bed Motion Lock	Locks all motion on bed. The Bed Motion Lock button will illuminate when activated.
	2	Fowler 30 <sup>+</sup> Lock	Places bed at 30° and locks Fowler below 30°. The Fowler 30+ button will illuminate when activated.
-ocks	3	Patient Fowler Lock	Locks out Fowler control at all locations (Siderail, Pendant, Headend) with the exception of the operator controls located on the Footboard. The Patient Fowler Lock will illuminate when activated.
LOC	4	Patient Gatch Lock	Locks out Gatch control at all locations (Siderail, Pendant, Headend) with the exception of the operator controls located on the Footboard. The Patient Gatch Lock will illuminate light when activated.
	5	Patient Bed Up/ Down Lock	Locks out Bed Height control at all locations (Siderail, Pendant, Headend) with the exception of the operator controls located on the footboard. The Patient Bed Up/Down Lock button will illuminate light when activated.
	6	Trendelenburg	Lowers head end and raises foot end of bed.
	7	Reverse Trendelenburg	Lowers foot end and raises head end of bed
	8	Bed up	Raises bed.
_	9	Bed Down	Lowers bed.
6	10	Fowler Up.	Raises Fowler.
MOTION	11	Fowler Down	Lowers Fowler.
9	12	Gatch Up	Raises Gatch.
2	13	Gatch Down	Lowers Gatch.
	14	Cardiac Chair	When activated, the knee will raise, the Fowler will raise or lower to approximately 52° degrees and the bed will tilt to approximately -12° Reverse Trendelenburg (foot end down).
	15	CPR Drop	Activates electronic CPR function; flattens litter and puts bed in low height.

Return To Table of Contents



# Footboard Control Panel Functions (Continued)

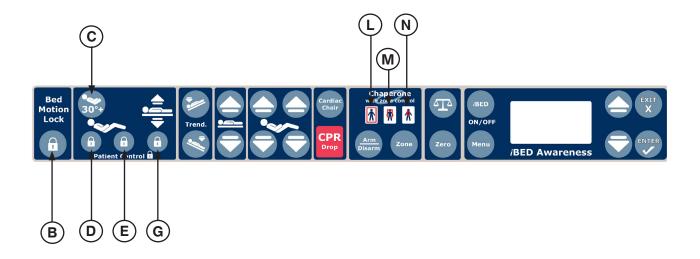
	Button	Name	Function
EXIT	16	Bed Exit Arm/Disarm	Activates BED EXIT system. The selected zone graphic will illuminate when activated. When Bed Exit is in alarm mode, press "Arm/Disarm" to turn Bed Exit "Off".
BED	17	Zone Control	Changes the Zone.
SCALE	18	Scale	Turns Scale system ON/OFF.
SC/	19	Zero	Zeroes Bed.
	20	<i>i</i> BED On/Off	Turns <i>i</i> BED Awareness system ON/OFF.
	21	Menu	Access MENU selections.
iBED/MENU	22	Menu Up	Scroll Up through menu.
3ED/I	23	Menu Down	Scroll Down through menu.
<i>i</i> I	24	Exit X	Exits or Escapes from menu selection; also used to Save and/or Cancel operations.
	25	Enter ✓	Selects menu item; also used to Save and/or Cancel operations.

# Note

*i*BED Awareness options populated with Chaperone Bed Exit features without Zone Control will not have button 17.

# LED Indicators: Footboard

The LED's inform the operator of various product conditions as listed below.

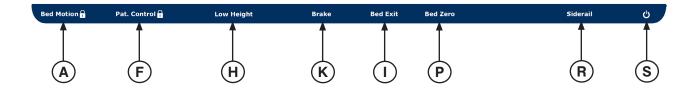


Button	Name: Function	LED Indicator
В	<b>Bed Motion Lock LED</b> : LED is illuminated if Bed Motion is locked; blinking if motion is attempted when lock is "On".	AMBER
С	<b>Fowler 30+ Lock LED</b> : LED is illuminated if Fowler 30+ is locked; blinking if locked and motion is attempted; flashing if lock condition is violated by CPR.	AMBER
D	<b>Patient Control Fowler Lock LED</b> : LED is illuminated if the Patient Fowler Lock is "On".	AMBER
E	<b>Patient Control Gatch Lock LED</b> : LED is illuminated if the Patient Gatch Lock is "On".	AMBER
G	Patient Control Bed Up/Down Lock LED: LED is illuminated if the Patient Bed Up/Down Lock is "On".	AMBER
L	Zone 1 LED: LED is illuminated when Bed Exit is "On" and Zone 1 activated.	AMBER
М	Zone 2 LED: LED is illuminated when Bed Exit is "On" and Zone 2 activated.	AMBER
N	Zone 3 LED: LED is illuminated when Bed Exit is "On" and Zone 3 activated.	AMBER

# Note

*i*BED Awareness options populated with Chaperone Bed Exit features without Zone Control will not have items M or N.

LED Indicators: Dashboard



Button	Name: Function	LED Indicator
А	Bed Motion Lock LED: LED is illuminated when Bed Motion Lock is activated.	AMBER
F	<b>Patient Control Lock LED</b> : LED is illuminated when any of the Patient Control (Fowler, Gatch, Bed Up/Down) Lock buttons are activated.	AMBER
н	<b>Low Height LED</b> : LED is illuminated when bed is in low height. The LED will blink if the <i>i</i> BED Awareness system is "On", the low height is being monitored, and the bed is not in low height.	AMBER
I	<b>Bed Exit LED</b> : LED is illuminated when the Bed Exit is armed. The LED will blink if the Bed Exit is turned Off while the <i>i</i> BED Awareness system is turned On.	AMBER
к	<b>Brake LED</b> : LED is illuminated when the brake is set, and will blink if the brake is not set.	AMBER
Р	Bed Zero LED: LED is illuminated if Bed Zero is successful.	AMBER
R	<b>Siderail LED</b> : LED is illuminated if <i>i</i> BED Awareness system is "On". The LED will blink when siderail state has changed.	AMBER
S	Power LED: LED is illuminated when bed has power.	GREEN

## **Display Screens**

There are 5 types of display screens listed by priority below with one being the highest.

## Types

Screen	Туре	Priority
Alarm Indications	Bed Exit Alarm Message	1
Alarm Indications	Brake Alarm Message	2
Maaaaaa	iBED Awareness Alert Messages	3
Messages	Conditional Message	4
Menus	Main Menu	5
Status Screen	Default Screen	6

#### Power Up

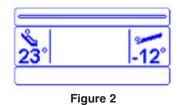
The initialization screen shown in Figure 1 will be displayed on power up.



Figure 1

## **Status Screen**

- The status screen is the default screen.
- Information on this screen includes the 'Fowler Angle' and the 'Trend Angle' values.
- If this screen is inactive for 60 seconds, the Backlighting will be reduced.
- Figure 2 shows an example of the "Status" Screen:



#### Message Screen

· As required message screens are provided during alarm conditions and user interaction with the bed.

#### Main Menu Screen

- The Main Menu contains selectable product features to the caregiver.
  - There are eight features listed in the main menu as ordered below:
  - 1. Weight Log (Weight Log is the Default Selection)
  - 2. Gain/Loss
  - 3. Change Equip. (Change Equipment)
  - 4. Change Ptnt. Wgt. (Change Patient Weight)
  - 5. Scale Units (Change Scale Units)
  - 6. Backlight (Backlighting)
  - 7. Advanced Options
  - 8. Exit Menu
- To select a feature, press the "Menu Up" and "Menu Down" button to scroll to the desired feature and press the "Enter/√" button.

## 1. Weight Log

• This feature provides the operator with up to 10 of the last weights logged by the scale system as shown in Figure 3.

(	
1.234lb	New
2.789lb	
3. 67 lb	Old▼

Figure 3

#### 2. Gain/Loss

• This feature provides information to the caregiver on the weight gain or loss of the patient.

#### To enable:

- Select "Gain/Loss" in the menu then press the "Enter/√" button, Figure 4 will be displayed.
- When "Release Button" message flashes on the display, release the "Enter/√" button; "Do Not Touch Bed" message will flash on the display.
- When Gain/Loss is On, "Gain/Loss Enable" message displays.

#### NOTE: Refer to Figure 5

- The base represents the scale weight when the gain/loss feature was enabled.
- The second piece of information represents the "Gain" or the "Loss" and the weight difference between the current displayed weight and the saved base weight.

•

- **NOTE:** Refer to Figure 6
- If the Gain or the Loss exceeds 99.9 lb, then the system will display '---' instead of a value.



Figure 4



Figure 5



Figure 6

## Main Menu (Continued)

#### 3. Change Equipment

The change equipment feature allows the operator to add or remove item from the product without affecting the patient weight.

#### To Change Equipment:

- Select "Change Equip." in the menu then press the "Enter/√" button, Figure 7 will be displayed.
- When "Release to Start" message displays on the screen, release the "Enter/ $\sqrt{}$ " button; "Do Not Touch Bed" message will flash on display.
- Figure 8 will display when the system is ready to change equipment.
- Press the "Enter/√" button to Add/Remove equipment or press the "Exit/X" button to cancel operation.
  - If "Enter/√" is pressed to Add/Remove Equipment then the message **"Do Not Touch Bed"** will flash on the display.
  - If "Exit/X" is pressed, "Operation Canceled" message will display.
- Figure 9 will be displayed when the system completes the change equipment adjustment.

# 4. Change Patient Weight

The change patient feature allows the operator to add or remove weight from the patient weight.

#### To Change Patient Weight:

- Select "Change Pnt. Wgt." in the menu.
- Press and hold the "Enter/ $\sqrt{}$ " button, Figure 10 will be displayed.
- When "Release Button" message displays on the screen, release the "Enter/√" button; "Do Not Touch Bed" message will flash on display.
- When the system is ready to change patient weight the following information will be displayed:
  - Allow used to Change patient Weight using arrow button;
  - Display the new patient weight;
  - Press" Enter/√" when done;
  - Press "Exit/X" to cancel operation.
- If "Enter/ $\sqrt{}$ " is pressed, the message "Do Not Touch Bed" will flash on the display.
- If "Exit/X" is pressed, "Patient Weight Changed" message will display.







Figure 8



Figure 9



Figure 10

# Main Menu (Continued)

# 5. Scale Units

- The Change Scale Units feature allows the operator to select the unit of value (lb or kg) for the scale information that is presented on the display.
- When the change scale units is selected, Figure 11 is displayed.
- This screen will highlight the current scale unit setting.
- To change the scale unit setting, scroll to the desired setting and press the "Enter/ $\checkmark$ " button.
- The default setting is "Pounds [lb]"



- When the backlight feature is selected the display will change to the backlight selection screen as shown in Figure 12.
- This screen will highlight the current backlight setting.
- Five settings are available for the backlight; Off, Low, Medium, High, and Nurse Call Only.
- To change the backlight setting; scroll to the desired setting and press the "Enter/√" Button; "Save Successful" message will display.
- The default setting is "Low".

## 7. Advanced Options

The advanced menu items include:

- 1. Choose Exit Alarm
- 2. Brake Alarm
- 3. Bed Status Alarm
- 4. Status to N/C

#### Choose Exit Alarm

The caregiver can choose between 10 exit alarms.

To Select Alarm:

- Select "Choose Exit Alarm" from the menu.
- Scroll through the 10 Tone Patterns listed in the menu. A sample alarm will sound for each Tone Pattern highlighted.
- · "Save Successful" message will be displayed.

🗸 Enter 📋	X Exit
Figure	11

Scale Units

Use ka

Use Ib Only



Figure 12

#### Main Menu / Advanced Options (Continued)

#### Brake Alarm

The caregiver can enable or disable a brake alarm feature. If the brakes are not engaged and the bed is plugged in an audible alarm will occur. This feature is only available on non-Zoom beds.

To Enable/Disable Brake Alarm:

- Select "Brake Alarm" from the menu.
- Use the Up and Down Arrow buttons to select enable or disable the alarm.
- Press "Enter/ $\checkmark$ " to save the alarm state.
- · "Save Successful" message will be displayed.

#### Bed Status (iBED Awareness Audible Alarm)

The caregiver can enable or disable an audible alarm for *i*BED Awareness alert states.

To Enable/Disable Alarm:

- Select "Bed Status Alarm" from the menu.
- Select "On" to Enable or "Off" to disable and then press "Enter/√"
- · "Save Successful" message will be displayed.

#### Status Nurse Call (iBed Awareness Priority Signal)

The caregiver can enable or disable a priority signal alarm through the Nurse Call system based on an *i*BED Awareness alarm state.

To Enable/Disable Alarm:

- Select "Status to N/C" from the menu.
- Select "On" to Enable or "Off" to disable and then press "Enter/√"
- "Save Successful" message will be displayed.

#### 8. Exit Menu

Exits Main Menu screen and returns display to the default Status Screen.

## *i*BED Awareness Functionality

- The *i*BED Awareness provides functionality that will monitor status conditions on the product and produce an alert if the state had changed.
- When the system is turned "On", it monitors each of the siderail positions and brake automatically. If the bed is in Low Height and/or Bed Exit is armed, the system will also monitor these features when bed status is turned "On".
- In the event of a power loss, the *i*BED Awareness system will operate in the last known condition when power is restored.
- *i*BED Awareness will not be able to be turned "On" if any system error conditions exist that impede the function of the *i*BED Awareness system. The system errors that affect this feature include the four side rail sensors and the scale system. For details on error codes, refer to the Maintenance Manual.

# *i*BED Awareness Light Bar

A light bar, located centrally on the front of the footboard, will illuminate and indicate the state of the *i*BED Awareness system.

#### Features

- When the *i*BED Awareness system is "On" the light bar turns green.
- If an alert state on the *i*BED Awareness system is triggered, the light bar will change to the alert state and flash AMBER.
- During an alert state, an AMBER dashboard LED associated with the alert will blink on the footboard and the display screen will show the details of the alert state.

#### *i*BED Awareness Side LED's

LEDs, located on each side of the bed near the foot end, will provide an indication of an alert state.

## Features

- If an alert state on the *i*BED Awareness system is triggered, the side LEDs will change to the alert state and blink AMBER.
- During an alert state, an AMBER dashboard LED associated with the alert will blink on the footboard and the display screen will show details of the alert state.

#### *i*BED Awareness Button

The *i*BED control button is used to turn the *i*BED Awareness system "On" and "Off".

#### Features

When the button is pressed the *i*BED Awareness system will save information based on the current state of the product and based on the system rules.

#### Turning on the *i*BED Awareness system

- 1. Press the iBED On/Off button.
- 2. The following message will be displayed on the screen: "Bed Status On".

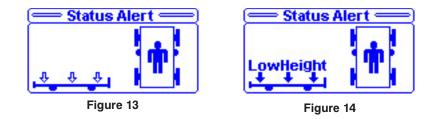
## Turning off the *i*BED Awareness system

- 1. Press and hold the *i*BED On/Off button.
- 2. The following message will be displayed on the screen: "Bed Status Off".

#### *i*BED Awareness Monitoring and Alarms

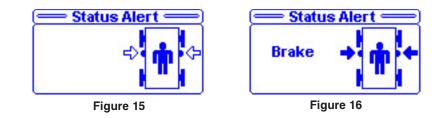
#### Low Height

- If the low height state changes:
  - 1. The low height LED on the dashboard blinks and the display screen flashes between Figure 13 message and Figure 14 message.



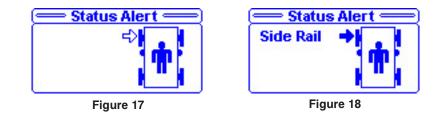
#### Brakes

- If the brake state changes:
  - 1. The brake LED on the dashboard blinks and the display screen flashes between Figure 15 message and Figure 16 message.



## Siderails

- If the siderail state changes:
  - 1. The siderail LED on the dashboard blinks and the display screen flashes between Figure 17 message and Figure 18 message.



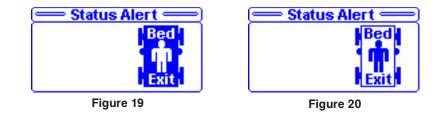
## Note

The arrow pointing to the siderail in Figure 17 and 18 will change depending on the siderail position in alarm.

## iBED Awareness Monitoring and Alarms (continued)

#### **Bed Exit**

- If the bed exit is disarmed:
  - 1. The bed exit LED on the dashboard blinks and the display screen flashes between Figure 19 message and Figure 20 message.



#### **Additional Alarm Conditions**

- If an audible alarm is required, the caregiver can set the bed status alarm to "On" through the Advanced Options Menu in the Main Menu.
- If the caregiver would like to set the bed status alarm to the Nurse Call Station, the "Status to N/C" must be turned "On" through the Advanced Options Menu in the Main Menu.

#### Note

By default these two advanced options are turned "Off".

## *i*BED Awareness Locks

## Fowler 30<sup>+</sup> Lock button

- The Fowler 30+ Lock is a dual purpose button. It positions the bed's fowler 30<sup>o</sup> to the horizontal and locks any Fowler motion below 30<sup>o</sup>.
- When the Fowler 30+ button is pressed, the bed will reposition only if it is below 30° and Figure 21 will be displayed.
- Once the bed reaches its final position (Trend Angle =  $0^{0}$ , Fowler Angle =  $30^{0}$ ), Figure 22 will be displayed.
- · If the button is not held until the final position is reached Figure 23 will be displayed.
- If bed is put in CPR position manually or by pressing the CPR button, Figure 24 will be displayed.

e Message e Mess	e Message e Mess
Repositioning	Locked
Figure 21	Figure 22
<u> Message —</u>	( <u> </u>
Hold to	Lock Violation, Turn
Reposition & Lock	Off Lock or Raise
repusition & Lock	Fowler
Figure 23	Figure 24

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## *i*BED Awareness Locks (Continued)

# **Bed Motion Lock**

- If Bed Motion lock button is pressed Figure 25 will be displayed.
- If Bed Motion lock button is pressed when already "on" then Figure 26 will be displayed.

ee Message ee Messa	Message ——
Locked	Unlocked
Figure 25	Figure 26

• If Motion is attempted when lock is "On", Figure 27 and 28 are displayed.

**Note:** CPR Drop button overrides locks.

<u> Message — </u>	🥮 Message —
= Motion Locked =	= =
Press 🔂 to Unlock	Press 🔂 to Unlock
Figure 27	Figure 28

## Patient Control Locks

- If the Patient Control lock button is pressed Figure 25 as shown above will be displayed.
- If the Patient Control lock button is pressed when already "on" then Figure 26 as shown above will be displayed.

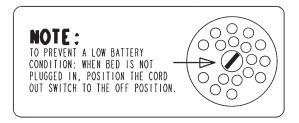


Service only by qualified personnel. Refer to the maintenance manual. Ensure the power cord is unplugged and battery power switch is turned to the off position before servicing.

#### **Nurse Call Battery**

To prevent a low battery condition when the power cord is not plugged in, position the cord out switch at the head end to the off position. The switch is identified by the label shown below. If the switch is not positioned as shown below and the power cord and pendant cord are unplugged, the life of the backup battery will be significantly reduced.

If the foot board POWER LED (located on the outside of both siderails) is flashing, the Nurse Call battery needs to be replaced. The battery is located on the patient's left side under the litter frame. No tools are required to replace the battery. Unplug the power cord from the wall socket and replace the battery. After replacing the battery, verify the foot board POWER LED is no longer flashing. Properly dispose of the old battery in accordance with local regulations.



## Main Power Circuit Breaker

In the event of a loss of electric function, unplug the power cord from the wall socket and reset the circuit breaker(s) located under the head end of the litter on the patient's left side. Plug the power cord into a properly grounded wall receptacle and follow the setup procedures.

#### **Battery Charger Circuit Breaker**

If the battery charger circuit breaker(s) located under the litter on the patient's head end, left side are tripped, refer to the troubleshooting section of the maintenance manual.

#### Checklist

- All fasteners secure
- Engage brake pedal and push on the frame to ensure all casters lock securely
- Engage drive wheel and ensure it is operating properly
- \_\_\_\_ Motion release switches working properly
- Confirm Head End Control Panel functionality
- \_\_\_\_\_ Confirm battery powered functionality
- \_\_\_\_\_ Siderails move, latch and stow properly
- \_\_\_\_\_ All functions on siderails working properly (including LED's)
- \_\_\_\_\_ CPR release working properly
- \_\_\_\_\_ Optional foot prop intact and working properly
- \_\_\_\_\_ I.V. pole working properly
- \_\_\_\_\_ Foley bag hooks intact
- \_\_\_\_\_ Chart rack intact and working properly
- \_\_\_\_ CPR board not cracked or damaged and stores properly
- \_\_\_\_\_ No cracks or splits in head and foot boards
- \_\_\_\_\_ All functions on footboard working properly (including LED's)
- \_\_\_\_\_ No rips or cracks in mattress cover
- \_\_\_\_\_ Scale and Bed Exit system calibrated properly
- \_\_\_\_\_ Power cord not frayed
- \_\_\_\_\_ No cables worn or pinched
- \_\_\_\_\_ All electrical connections tight
- \_\_\_\_\_ All grounds secure to the frame
- Ground impedance not more than 100 milliohms
- \_\_\_\_\_ Current leakage not more than 300 microamps
- \_\_\_\_\_ Apply grease to litter grease points
- \_\_\_\_\_ Ensure ground chains are clean, intact, and have at least two links touching the floor.
- "Brake" LED on the foot board (*i*BED Awareness option only) blinks when brakes are not engaged.
- \_\_\_\_\_ Siderail switches working properly (*i*BED Awareness option).
- \_\_\_\_\_ Bed Status Light Bar LEDs working properly (*i*BED Awareness option).
- \_\_\_\_\_ Bed Status Side Indicator LEDs working properly (iBED Awareness option).
- \_\_\_\_\_ Inspect footboard control labeling for signs of degradation (*i*BED Awareness option).

Bed Serial Number:	

Completed by:

Date: \_\_\_\_\_

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Hand wash all surfaces of the bed with warm water and mild detergent. DRY THOROUGHLY. Do not steam clean or hose off the Zoom<sup>®</sup> Bed. Do not immerse any part of the bed. Some of the internal parts of the bed are electric and may be damaged by exposure to water.

Suggested cleaners for bed surfaces:

Quaternary Cleaners (active ingredient – ammonium chloride) Phenolic Cleaners (active ingredient – o-phenylphenol) Chlorinated Bleach Solution (5.25% – less than 1 part bleach to 100 parts water)

Avoid over saturation and ensure the product does not stay wet longer than the chemical manufacturer's guidelines for proper disinfecting.

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SOME CLEANING PRODUCTS ARE CORROSIVE IN NATURE AND MAY CAUSE DAMAGE TO THE PRODUCT IF USED IMPROPERLY. If the products described above are used to clean Stryker patient care equipment, measures must be taken to insure the beds are wiped with damp cloth soaked in 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.

For mattress cleaning instructions, please see the tag on the mattress, or contact the mattress manufacturer.

Clean Velcro<sup>®</sup> AFTER EACH USE. Saturate Velcro<sup>®</sup> with disinfectant and allow disinfectant to evaporate. (Appropriate disinfectant for nylon Velcro<sup>®</sup> should be determined by the hospital.

#### **Limited Warranty**

Stryker Medical Division, a division of Stryker Corporation, warrants to the original purchaser the ZOOM<sup>®</sup> Critical Care Bed to be free from defects in material and workmanship for a period of ONE (1) years 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 Beds 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 Beds 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				Х
All parts	X	X	Х		
All labor and travel	X	X		X	
Unlimited emergency service calls	X	X		X	
Priority one contact: two hour phone response	X	X	Х	X	
Most repairs completed within 3 days	X	X		X	
JCAHO documentation	X	X		X	Х
On-site record of PM & emergency service	X				Х
Factory-trained Stryker service technician	X	X		X	Х
Stryker authorized parts used	X	X	Х	X	Х
Service during regular business hours (8-5)	X	X	Х	X	Х

\* 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.

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

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