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Introduction

INTENDED USE

This manual is designed to assist you with the operation of the Model 3002 S3 Signature Series MedSurg Bed. Read it thoroughly before using the equipment.

SPECIFICATIONS

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<th>Safe Working Load</th>
<th>500 lbs</th>
<th>227 kg</th>
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<tr>
<td>Note: Safe Working Load indicates the sum of the patient, mattress, and accessory weight.</td>
<td></td>
<td></td>
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<tr>
<td>Scale System Capacity (optional equipment). Loads weighing up to</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scale System Accuracy (optional equipment)</td>
<td>± 2 pounds at 0° - ± 10° Trendelenburg for patients weighing 100 pounds or less</td>
<td></td>
</tr>
<tr>
<td></td>
<td>± 2% of the total patient weight at 0° - ± 10° Trendelenburg for patients weighing greater than 100 pounds</td>
<td></td>
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<tr>
<td>Overall Length/Width</td>
<td>Standard Bed</td>
<td>Siderails Up</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Siderails Down</td>
</tr>
<tr>
<td>Patient Sleep Surface - Standard Bed</td>
<td>84&quot; x 35&quot;</td>
<td>213,4 cm x 88,9 cm</td>
</tr>
<tr>
<td>Bed Height to Top of Seat Litter</td>
<td>Standard</td>
<td>16&quot; to 30&quot; ±0.5</td>
</tr>
<tr>
<td>Litter Platform to Top of Siderail</td>
<td>Full Up</td>
<td>Head End Siderail</td>
</tr>
<tr>
<td></td>
<td>Full Up</td>
<td>Foot End Siderail</td>
</tr>
<tr>
<td>Space Between Siderails (Full Up)</td>
<td>2-1/4&quot;</td>
<td>5,72 cm</td>
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<tr>
<td>Knee Gatch Angle</td>
<td>0° to 45°</td>
<td></td>
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<td>Fowler Angle</td>
<td>0° to 60°</td>
<td></td>
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<tr>
<td>Trendelenburg/Reverse Trendelenburg</td>
<td>+12° to -10° ± 1°</td>
<td></td>
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<tr>
<td>Electrical Requirements - all electrical requirements meet UL 2601 specifications.</td>
<td>115VAC, 60Hz, 8A</td>
<td></td>
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<tr>
<td>Outlet Option</td>
<td>115VAC, 60Hz, 10A</td>
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<td>(1) 9V Alkaline Battery (Nurse Call Option)</td>
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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.
ENVIRONMENTAL CONDITIONS

<table>
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<tr>
<td>Ambient Temperature</td>
<td><img src="image" alt="" /> 10 °C (50 °F)</td>
<td><img src="image" alt="" /> -30 °C (140 °F)</td>
</tr>
<tr>
<td>Relative Humidity (Non-Condensing)</td>
<td><img src="image" alt="" /> 75%</td>
<td><img src="image" alt="" /> 95%</td>
</tr>
<tr>
<td>Atmospheric Pressure</td>
<td><img src="image" alt="" /> 700 hPa</td>
<td><img src="image" alt="" /> 1060 hPa</td>
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*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.

**WARNING**

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

**CAUTION**

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

**Note**

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

- Headboard
- Brake Pedal
- Siderail Release
- Handle
- Siderail
- Footboard
- Control Panel
- Nurse Control Panel
- Steer Pedal (not shown)
- Brake Pedal
- Caster
Symbols

Warning, consult accompanying documentation

~ Alternating Current

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

Class 1 Equipment: equipment in which protection against electric shock does not rely on BASIC INSULATION only, but which includes an additional safety precaution in that means are provided for the connection of the EQUIPMENT to the protective earth conductor in the fixed wiring of the installation in such a way that ACCESSIBLE METAL PARTS cannot become live in the event of a failure of the BASIC INSULATION.

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
Before operating the 3002 S3 MedSurg Bed, it is important to read and understand all information in this manual. Carefully read and strictly follow the safety guidelines listed on this page. It is important that all users have been trained and educated on the inherent hazards associated with the usage of electric beds.

**WARNING**

- Powered bed mechanisms can cause serious injury. Operate bed only with persons clear of mechanisms.
- Danger: Explosion hazard. Do not use in the presence of flammable anesthetics. 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). After the brake pedal is applied, push on the bed to ensure the brakes are locked. Serious 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 moving the unit. Attempting to move the unit with the brakes actuated could result in injury to the user and/or patient.
- Do not attempt to move the foot end of the bed laterally when the steer pedal is activated. When the steer pedal is activated, the steer caster at the foot end of the bed cannot swivel. Attempting to move the bed laterally when the steer pedal is activated may cause injury to the user.
- The 3002 S3 MedSurg Bed is not intended for use with patients less than two years of age.
- 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 attaching equipment to the frame, ensure it will not impede normal frame operation. For example: hooks on hanging equipment must not actuate control buttons, equipment must not hide the nurse call button, foley bags must not rest on brake pedal, etc. Use only a Stryker supplied interface cable. Use of any other cable may cause the bed to function improperly, which may result in patient or user injury.
- The 3002 S3 MedSurg Bed is equipped with a hospital grade plug for protection against electric 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.
- When raising the siderails, listen for the “click”. When raising the siderail, the first click will indicate you can return to the intermediate position, the second click indicates the full up position. Once in position, move the siderail from side to side 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 to ensure a patient will remain safely in bed.
- 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 zeroing the weigh system may cause a reduction in the sensitivity of the bed exit system.
- Before servicing or cleaning the bed, *always* unplug the bed power cord from the wall socket. When working under a bed in the high position, always place blocks under the litter frame and apply the brakes to prevent injury in case the Bed Down switch is accidently pressed.
- To avoid pinching your fingers, place the I.V. pole in the upright position before using the drive handle.
- 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 the XPRT or Position PRO:

- 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 or Position PRO Mattress, extra caution and/or operator supervision is required to help reduce the likelihood of a patient fall occurring.

**CAUTION**

- Unplug bed during service or cleaning.
- Preventative maintenance should be performed at a minimum of annually to ensure all bed features are functioning properly. Close attention should be given to safety features including, but not limited to, safety side latching mechanisms, frayed electrical cords and components, all electrical controls returning to the off or neutral position when released, caster braking systems, no controls or cabling entangled in bed mechanisms, leakage current 300 microamps maximum, scale and bed exit systems calibrated properly and the siderail gas spring not leaking oil.
- Because individual beds may have different options, footboards should not be moved from one bed to another. Mixing footboards could result in unpredictable bed operation.
- The lockout buttons on the footboard 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.
- The maximum safe working load for each I.V. pole is 40 pounds.
- I.V. Poles should not be used as a bed push/pull device.
- 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 scale system to weigh inaccurately.
- The use of a mattress overlay may reduce the effectiveness of the siderail.
- 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.
- There is a possible fire hazard when using half bed length type oxygen administering equipment. Ensure that the siderails are outside of the tent.
- There is a possible fire hazard when used with oxygen administering equipment other than the nasal or mask type. Lock control at foot of bed when using oxygen administering equipment.
- The weight of the foley bags placed on isolated bag hooks should not exceed five pounds.
- The weight of pumps placed on footboard pump holder should not exceed 45 pounds.
Safety Tips and Guidelines

/Bed Awareness Option

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

⚠️ WARNING

- The optional /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 /BED Awareness system indicator lights are only an aid to the caregiver, and 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 /BED Awareness system, the nurse must physically verify that the siderails are locked.

⚠️ CAUTION

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

110V Option

In addition to the previous warnings and cautions, all of the following warnings and cautions apply to units equipped with the 110V option.

- Only use equipment with the following electrical specs: 110 VAC; 10A; 60Hz. Maximum total load drawn by equipment used in this receptacle outlet must not exceed 10A. The total system chassis risk current should not exceed 300 microamps. Grounding continuity should be checked periodically.
- To avoid risk of electrical shock, unplug all power cords before opening the service compartment, junction box or receptacle.
- Do not use the optional 110V outlet for life sustaining equipment.
It is important that the 3002 S3 MedSurg Bed is working properly before it is put into service. The following list will help ensure that each part of the bed is tested.

**WARNING**

- The 3002 S3 MedSurg is equipped with a hospital grade plug for protection against electric 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.
- Use only a Stryker supplied interface cable. Use of any other cable may cause the bed to function improperly which may result in patient or user injury.

1. Plug the bed into a properly grounded, hospital grade wall receptacle and ensure the LED light at the foot end of the bed comes on.
2. Plug the optional interface cable into the 37-pin connector under the litter frame at the head end of the bed, into the “Patient Station”, “Head Wall”, “Docker Station” or equivalent (whichever applies). Test the interface cable to verify it is functioning properly.
3. Ensure the siderails raise, lower, lock in the up position, lock in the intermediate position when lowered and store smoothly (page 16).
4. Ensure that all four casters lock when the brake pedal is engaged (page 14).
5. Raise the fowler (head of bed) up to approximately 60°. Squeeze the CPR release handle and ensure the back will drop with minimal effort.

**Note**

Ensure that the “Brake” LED located on the outside of the head end siderails and on the footboard control panel blink when the brakes are not engaged.

6. Perform each function on the footboard control panel to ensure that each function is working properly (page 24).
7. Perform each function on both head end siderails to ensure that each is working properly (page 16).
8. Activate the motion stop system to ensure it is functioning properly: press and hold down the BED DOWN key. As the bed lowers, push up on the motion interrupt pan under the bed and ensure the downward motion stops. Release the pan and allow the downward motion to continue.

**Note**

The bed’s upward motion or other functions are not disrupted by the motion stop system.

9. If the bed is equipped with the Nurse Call option, verify it is functioning properly prior to patient use.

If any problems are found during bed setup, contact Stryker Technical Support at (800) 327−0770.
BRAKE PEDAL OPERATION

WARNING

Always apply the caster brakes when a patient is getting on or off the bed. Push the bed sideways to ensure the brakes are securely locked. Always engage the brakes unless the bed is being moved. Injury could result if the bed moves while a patient is getting on or off the bed.

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.

Note

The LED lights located on the outside of the head end siderails and on the foot end control panel will blink when the brakes are not engaged only if the bed is plugged into a wall socket or is running on battery power (see pages 19 & 26-27). The brakes will still operate properly when the bed is not plugged in.

STEER PEDAL OPERATION

When the bed is moved, the steer caster helps guide the bed along a straight line and helps the bed pivot around corners.

To activate the steer caster, move the pedal located at the head end of the bed to your right as shown on the label.

Note

For proper “tracking” of the steer caster, push the bed approximately 10 feet to allow the wheels to face the direction of travel before engaging the steer pedal. If this is not done, proper “tracking” will not occur and the bed will be difficult to steer.

WARNING

Do not attempt to move the foot end of the bed laterally when the steer pedal is activated. When the steer pedal is activated, the steer caster at the foot end of the bed cannot swivel. Attempting to move the bed laterally when the steer pedal is activated may cause injury to the user.
CPR EMERGENCY RELEASE

When quick access to the patient is needed, and the Fowler (head of bed) is raised, squeeze one of the two release handles (marked by the red CPR label) and the Fowler can quickly be guided down to a flat position.

Note
The handle can be released at any time to stop the Fowler from lowering.

FOOT PROP USAGE

The foot prop causes the foot end of the Knee Gatch to rise when the Gatch button is used to raise the Gatch. To lower the foot end of the Gatch, release the prop by grasping the end of the Knee Gatch, lifting upward and swinging the prop (A) toward the head end of the bed which will disengage the prop stop.

WARNING
To avoid injury while cleaning or servicing under the foot section, secure the foot section with string or bungee cords or hold it up out of the way.

FRACTURE FRAME USAGE

A standard fracture frame can be mounted on the bed using the I.V. sockets located on all four corners of the bed. I.V. poles can be used in conjunction with a fracture frame if the I.V. pole adaptor sockets are purchased.

WARNING
Use only retractable traction or fracture frames. Failure to use a retractable frame may result in injury to the patient and/or damage to the equipment.

FOLEY BAG HOOKS USAGE

The standard foley bag hooks are found at four locations (on each side of the bed); below the seat (middle) section and at the extreme foot end of the frame. Optional isolated foley bag hooks can be purchased and are located at the foot end of the bed under the frame. The patient weight reading on the scale system is not affected when the optional isolated foley bag hooks are used.

Patient Restraint Strap Locations
The bed has 10 locations for installing patient restraint straps on the litter top, five on each side of the bed.

WARNING
Improperly adjusted restraint straps can cause serious injury to a patient. The clinician must use her/his judgement to determine proper use of restraint straps and restraint strap locations. Clean Velcro AFTER EACH USE. Saturate Velcro with disinfectant and allow disinfectant to evaporate. (Appropriate disinfectant for nylon Velcro should be determined by the hospital.)
POSITIONING SIDERAIS

NOTE

• The siderails can be locked at two heights (intermediate & full up).
• The siderails can slide in towards the bed when not in use. To remove the rail from the tucked position, grasp the top of the rail and pull outward.
• To raise head end siderail to full height position, grasp the rail and swing it upward until it locks in place (two clicks are heard). Note: When the siderail is being raised, it does not lock in the intermediate position unless it is brought back after the first click.
• To lower the siderail and lock in intermediate position, pull outward on the siderail release handle (A) and rotate the siderail down toward the head end of the bed until it locks at the intermediate position.
• To lower the siderail in its full down position, pull outward on the release handle (A) and rotate the siderail downward toward the head end of the bed until it is completely lowered.
• To raise and lower the foot end siderail, the same procedures are required as for the head end siderail, however, the siderail swings toward the foot end of the bed.

WARNING

• Be sure the siderail is locked securely into position.
• Siderails in a full up or intermediate position are not intended to keep patients from exiting the bed. They are designed to keep a patient from inadvertently rolling off the bed. Proper restraint methods should be utilized to ensure the patient remains in the bed.
• The intermediate position is only intended to assist patients and users when getting in or out of the bed in addition to assisting in positioning themselves in the bed.
• The Intermediate position should not be used in place of the full up position.
• The siderails are not intended to be used as a push device.

To disengage the rail, pull outward on release handle (A) and swing the rail down to the desired height (intermediate or full down). When storing siderails, ensure they are at a full down position.

CONTROL PANEL LIGHTS

The bed is equipped with lights to illuminate the head end siderail control panel and the red nurse call switches. Both can be activated at the footboard control panel. Five settings are available for the control panel lights: Off, Low Intensity, Medium Intensity, High Intensity and Nurse Call Only.

To change the control panel light settings, press the “Menu” button on the footboard. Scroll down through the menu items and select “Backlight” then press “Enter”. Select the desired setting by highlighting it and then pressing “Enter”.

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OPERATING I.V. POLES

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

To use the “Removable” I.V. 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 maximum safe working load for each I.V. pole is 40 pounds.

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 of the bed. 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.

⚠️ CAUTION
The maximum safe working load for each I.V. pole is 40 pounds.
NIGHT LIGHT USAGE

The bed is equipped with two night lights to illuminate the floor area around the bed. There is a switch under the litter thigh section on the patient’s left side that turns both lights on and off.

NURSE CALL BACKUP BATTERY (OPTIONAL)

- To prevent a low battery condition when the bed is not plugged in, position the cord out switch at the head end of the bed to the off position. The switch is identified by the label shown below. If the switch is not positioned as shown below and the bed power cord and pendant cord are unplugged, the life of the backup battery will be significantly reduced.
- If the Nurse Call battery needs to be replaced, a message will appear on the footboard display. The battery is located on the patient’s left side at the head end of the bed. No tools are required to replace the battery. Unplug the bed power cord from the wall socket and remove the battery from its housing to replace.

USING THE 110 VOLT OUTLET (OPTIONAL)

- The 110V outlet has its own power cord that must be plugged into a properly grounded hospital grade three prong wall receptacle different from the wall receptacle the bed power cord is plugged into.
- If the equipment plugged into the bed outlet is not receiving power, check the 10A circuit breakers located on the litter frame under the head section. Reset, if necessary.

WARNING

- Only use equipment with the following electrical specs: 110 VAC; 10A; 60Hz. Maximum total load drawn by equipment used in this receptacle outlet must not exceed 10A. The total system chassis risk current should not exceed 300 microamps. Grounding continuity should be checked periodically.
- To avoid risk of electrical shock, unplug all power cords before opening the service compartment, junction box or receptacle.
- Do not use the optional 110V outlet for life sustaining equipment.

CPR BOARD USAGE (OPTIONAL EQUIPMENT)

If the bed is equipped with the optional CPR board, it is stored on the bed’s headboard. To remove it, pull it away from the headboard using both hands and lift it out of storage position.
# Siderail Operation Guide

## NURSE CONTROL FUNCTIONS (OUTSIDE SIDERAIL)

*Signature Green Color Option Shown*

![Siderail Diagram](image)

### LEFT OUTER SIDERAIL SHOWN
*(Right Outer Siderail same as the Left)*

<table>
<thead>
<tr>
<th>Button</th>
<th>Button Name</th>
<th>Button Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Brake LED</td>
<td>LED flashes when Brakes are not engaged. LED is &quot;Off&quot; when brakes are engaged.</td>
</tr>
<tr>
<td>2</td>
<td>Cardiac Chair</td>
<td>Press to activate the Cardiac Chair function.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• The Knee will raise.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• The back will raise to approximately 60°.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• The bed will tilt to approximately −10° reverse Trendelenburg (foot end down).</td>
</tr>
<tr>
<td>3</td>
<td>Bed/Litter Up</td>
<td>Press to raise the Bed/Litter.</td>
</tr>
<tr>
<td>4</td>
<td>Bed/Litter Down</td>
<td>Press to lower the Bed/Litter.</td>
</tr>
<tr>
<td>5</td>
<td>Nurse Call</td>
<td>Push to activate Nurse Call.</td>
</tr>
<tr>
<td>6</td>
<td>Knee Gatch Up</td>
<td>Press to raise the Knee Gatch.</td>
</tr>
<tr>
<td>7</td>
<td>Knee Gatch Down</td>
<td>Press to lower the Knee Gatch.</td>
</tr>
<tr>
<td>8</td>
<td>Fowler Up</td>
<td>Press to raise the Fowler.</td>
</tr>
<tr>
<td>9</td>
<td>Fowler Down</td>
<td>Press to lower the Fowler.</td>
</tr>
</tbody>
</table>

Note: The intent of the nurse call light on the siderails is to ensure the patient immediately knows which button to push to contact the nurse station. Turning the light off may compromise this ability, especially in a darkened room.
# PATIENT CONTROL FUNCTIONS WITHOUT OPTIONAL SMART TV (INSIDE SIDERRAIL)

![Signature Green Color Option Shown](image)

**LEFT INSIDE SIDERRAIL SHOWN**

*Right Inside Siderail same as the Left with exception of the Nurse Call and Nurse Answer LED. LED 7 and 8 will change positions on the right inner siderail.*

<table>
<thead>
<tr>
<th>Button</th>
<th>Button Name</th>
<th>Button Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TV On/Off</td>
<td>Press to turn TV or radio on and to select a channel.</td>
</tr>
<tr>
<td>2</td>
<td>Room Light</td>
<td>Press to turn the room light On/Off.</td>
</tr>
<tr>
<td>3</td>
<td>Bed Overhead Light</td>
<td>Press to turn the bed overhead light On/Off.</td>
</tr>
<tr>
<td>4</td>
<td>TV/Radio Volume Down</td>
<td>Press to decrease volume; TV or Radio.</td>
</tr>
<tr>
<td>5</td>
<td>TV/Radio Volume Up</td>
<td>Press to increase volume; TV or Radio.</td>
</tr>
<tr>
<td>6</td>
<td>Nurse Call</td>
<td>Press to activate Nurse Call. <em>Note:</em> Yellow LED will light when button is pushed. Green LED will light with Nurse Station acknowledgment.</td>
</tr>
<tr>
<td>7</td>
<td>Nurse Call LED</td>
<td>Illuminates amber when nurse call has been pressed by patient.</td>
</tr>
<tr>
<td>8</td>
<td>Nurse Call Answer LED</td>
<td>Illuminates green when answered by Nurse.</td>
</tr>
<tr>
<td>9</td>
<td>Fowler Up</td>
<td>Press to raise the Fowler.</td>
</tr>
<tr>
<td>10</td>
<td>Fowler Down</td>
<td>Press to lower the Fowler.</td>
</tr>
<tr>
<td>11</td>
<td>Knee Gatch Down</td>
<td>Press to lower the Knee Gatch.</td>
</tr>
<tr>
<td>12</td>
<td>Knee Gatch Up</td>
<td>Press to raise the Knee Gatch.</td>
</tr>
</tbody>
</table>
PATIENT CONTROL FUNCTIONS WITH OPTIONAL SMART TV (INSIDE SIDERAIL)

Signature Green Color Option Shown

LEFT INSIDE SIDERAIL SHOWN
(Right Inside Siderail same as the Left)

<table>
<thead>
<tr>
<th>Button</th>
<th>Button Name</th>
<th>Button Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TV On/Off</td>
<td>Press to turn TV or radio on and to select a channel.</td>
</tr>
<tr>
<td>2</td>
<td>Room Light</td>
<td>Press to turn the room light On/Off.</td>
</tr>
<tr>
<td>3</td>
<td>Bed Overhead Light</td>
<td>Press to turn the bed overhead light On/Off.</td>
</tr>
<tr>
<td>4</td>
<td>TV/ Volume Down</td>
<td>Press to decrease TV volume.</td>
</tr>
<tr>
<td>5</td>
<td>TV/ Volume Up</td>
<td>Press to increase TV volume.</td>
</tr>
<tr>
<td>6</td>
<td>Nurse Call</td>
<td>Press to activate Nurse Call. Note: Yellow LED will light when button is pushed.</td>
</tr>
<tr>
<td>7</td>
<td>Nurse Call LED</td>
<td>Illuminates amber when nurse call has been pressed by patient.</td>
</tr>
<tr>
<td>8</td>
<td>Nurse Call Answer LED</td>
<td>Illuminates green when answered by Nurse.</td>
</tr>
<tr>
<td>9</td>
<td>Fowler Up</td>
<td>Press to raise the Fowler.</td>
</tr>
<tr>
<td>10</td>
<td>Fowler Down</td>
<td>Press to lower the Fowler.</td>
</tr>
<tr>
<td>11</td>
<td>Knee Gatch Down</td>
<td>Press to lower the Knee Gatch.</td>
</tr>
<tr>
<td>12</td>
<td>Knee Gatch Up</td>
<td>Press to raise the Knee Gatch.</td>
</tr>
</tbody>
</table>
PATIENT TV CHANNEL CONTROL FUNCTIONS WITH OPTIONAL SMART TV (INSIDE SIDERAIL)

Signature Green Color Option Shown

LEFT INSIDE SIDERAIL SHOWN
(Right Inside Siderail same as the Left)

<table>
<thead>
<tr>
<th>Button</th>
<th>Button Name</th>
<th>Button Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TV Channel Up</td>
<td>Press to change TV channel up.</td>
</tr>
<tr>
<td>2</td>
<td>TV Channel Down</td>
<td>Press to change TV channel down.</td>
</tr>
<tr>
<td>3</td>
<td>Mute TV</td>
<td>Press to mute TV volume. Press again to turn the sound back on.</td>
</tr>
<tr>
<td>4</td>
<td>Closed Caption</td>
<td>Press to display the closed captioning. Press again to turn off the closed captioning.</td>
</tr>
</tbody>
</table>
INTENDED USE

The iBED 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 iBED 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 with Zone Control system is armed and/or the Fowler 30+ is “On”, the system has the ability to monitor these features independently when iBED Awareness is turned “On”.

FOOTBOARD CONTROL PANEL BUTTONS

<table>
<thead>
<tr>
<th>Button</th>
<th>Name</th>
<th>Button</th>
<th>Name</th>
<th>Button</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bed Motion Lock</td>
<td>9</td>
<td>Bed/Litter Down</td>
<td>17</td>
<td>Bed Exit Zone Control</td>
</tr>
<tr>
<td>2</td>
<td>Fowler 30°+</td>
<td>10</td>
<td>Fowler Up</td>
<td>18</td>
<td>Scale</td>
</tr>
<tr>
<td>3</td>
<td>Patient Fowler Lock</td>
<td>11</td>
<td>Fowler Down</td>
<td>19</td>
<td>Scale Zero</td>
</tr>
<tr>
<td>4</td>
<td>Patient Gatch Lock</td>
<td>12</td>
<td>Knee Gatch Up</td>
<td>20</td>
<td>iBED On/Off</td>
</tr>
<tr>
<td>5</td>
<td>Patient Bed Up/Down Lock</td>
<td>13</td>
<td>Knee Gatch Down</td>
<td>21</td>
<td>Menu</td>
</tr>
<tr>
<td>6</td>
<td>Trend</td>
<td>14</td>
<td>Cardiac Chair</td>
<td>22</td>
<td>Menu Up</td>
</tr>
<tr>
<td>7</td>
<td>Reverse Trend</td>
<td>15</td>
<td>CPR Drop</td>
<td>23</td>
<td>Menu Down</td>
</tr>
<tr>
<td>8</td>
<td>Bed/Litter Up</td>
<td>16</td>
<td>Bed Exit Arm/Disarm</td>
<td>24</td>
<td>Exit</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25</td>
<td>Enter</td>
</tr>
</tbody>
</table>

Signature Green Color Option Shown
## Footboard Operation Guide

### FOOTBOARD CONTROL PANEL FUNCTIONS

<table>
<thead>
<tr>
<th>Button</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bed Motion Lock</td>
<td>Locks all motion on bed. The Bed Motion Lock button will illuminate when activated.</td>
</tr>
<tr>
<td>2</td>
<td>Fowler 30°+</td>
<td>Moves bed out of trend and raises the Fowler to 30°. The Fowler 30°+ button and dashboard light will illuminate when activated. Note: The Fowler will not go below 30° once the Fowler 30°+ lock is activated. However, it may be raised or lowered in the 30° to 60° range.</td>
</tr>
<tr>
<td>3</td>
<td>Patient Fowler Lock</td>
<td>Locks out Fowler control at all locations (Siderail, Pendant, Head End) with the exception of the operator controls located on the Footboard. The Patient Fowler Lock button will illuminate when activated.</td>
</tr>
<tr>
<td>4</td>
<td>Patient Gatch Lock</td>
<td>Locks out Gatch control at all locations (Siderail, Pendant, Head End). The Patient Gatch Lock button will illuminate when activated. This function also prevents the auto contour of the Gatch when motion is used. Note: Auto contour is the feature of the bed that when Fowler is actuated, Gatch automatically moves with the Fowler.</td>
</tr>
<tr>
<td>5</td>
<td>Patient Bed Up/Down Lock</td>
<td>Locks out Bed Height control at all locations (Siderail, Pendant, Head End) with the exception of the operator controls located on the Footboard. The Patient Bed Up/Down Lock button and Bed Motion dashboard light will illuminate when activated.</td>
</tr>
<tr>
<td>6</td>
<td>Trendelenburg</td>
<td>Lowers head end and raises foot end of bed.</td>
</tr>
<tr>
<td>7</td>
<td>Reverse Trendelenburg</td>
<td>Lowers foot end and raises head end of bed</td>
</tr>
<tr>
<td>8</td>
<td>Bed/Litter Up</td>
<td>Raises Bed/Litter.</td>
</tr>
<tr>
<td>9</td>
<td>Bed/Litter Down</td>
<td>Lowers Bed/Litter.</td>
</tr>
<tr>
<td>10</td>
<td>Fowler Up</td>
<td>Raises Fowler.</td>
</tr>
<tr>
<td>11</td>
<td>Fowler Down</td>
<td>Lowers Fowler.</td>
</tr>
<tr>
<td>12</td>
<td>Knee Gatch Up</td>
<td>Raises Knee Gatch.</td>
</tr>
<tr>
<td>13</td>
<td>Knee Gatch Down</td>
<td>Lowers Knee Gatch.</td>
</tr>
<tr>
<td>14</td>
<td>Cardiac Chair</td>
<td>When activated, the knee will raise, the Fowler will raise or lower to approximately 60° degrees and the bed will tilt to approximately -10° Reverse Trendelenburg (foot end down).</td>
</tr>
<tr>
<td>15</td>
<td>CPR Drop</td>
<td>Activates electronic CPR function; flattens litter and puts bed in low height.</td>
</tr>
</tbody>
</table>

---

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### FOOTBOARD CONTROL PANEL FUNCTIONS (CONTINUED)

<table>
<thead>
<tr>
<th>Button</th>
<th>Name</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>Bed Exit Arm/Disarm</td>
<td>Activates Bed Exit system. The selected zone graphic will illuminate when activated. When Bed Exit is in alarm mode, press and hold “Arm/Disarm” to turn Bed Exit “Off”.</td>
</tr>
<tr>
<td>17</td>
<td>Zone Control</td>
<td>Changes the Zone.</td>
</tr>
<tr>
<td>18</td>
<td>Scale</td>
<td>Displays scale information on screen.</td>
</tr>
<tr>
<td>19</td>
<td>Zero</td>
<td>Zeroes Bed.</td>
</tr>
<tr>
<td>20</td>
<td>On/Off</td>
<td>Turns /BED Awareness system ON/OFF.</td>
</tr>
<tr>
<td>21</td>
<td>Menu</td>
<td>Accesses MENU selections.</td>
</tr>
<tr>
<td>22</td>
<td>Menu Up</td>
<td>Scroll Up through menu.</td>
</tr>
<tr>
<td>23</td>
<td>Menu Down</td>
<td>Scroll Down through menu.</td>
</tr>
<tr>
<td>24</td>
<td>Exit</td>
<td>Exits or Escapes from menu selection; also used to Cancel operations.</td>
</tr>
<tr>
<td>25</td>
<td>Enter</td>
<td>Selects menu item; also used to Save operations.</td>
</tr>
</tbody>
</table>

Signature Green Color Option Shown

[Diagram of Footboard Control Panel]

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LED INDICATORS: FOOTBOARD

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

<table>
<thead>
<tr>
<th>LED</th>
<th>Name: Function</th>
<th>LED Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td><strong>Bed Motion Lock LED</strong>: LED is illuminated if Bed Motion is locked; blinking if motion is attempted when lock is “On”.</td>
<td>AMBER</td>
</tr>
<tr>
<td>B</td>
<td><strong>Fowler 30°+ Lock LED</strong>: LED is illuminated if Fowler 30°+ is locked; blinking if locked and Fowler motion is attempted while Fowler is at 30°; flashes if lock condition is violated by CPR.</td>
<td>AMBER</td>
</tr>
<tr>
<td>C</td>
<td><strong>Patient Control Fowler Lock LED</strong>: LED is illuminated if the Patient Fowler Lock is “On”.</td>
<td>AMBER</td>
</tr>
<tr>
<td>D</td>
<td><strong>Patient Control Gatch Lock LED</strong>: LED is illuminated if the Patient Gatch Lock is “On”.</td>
<td>AMBER</td>
</tr>
<tr>
<td>E</td>
<td><strong>Patient Control Bed Up/Down Lock LED</strong>: LED is illuminated if the Patient Bed Up/Down Lock is “On”.</td>
<td>AMBER</td>
</tr>
<tr>
<td>F</td>
<td><strong>Zone 1 LED</strong>: LED is illuminated when Bed Exit is “On” and Zone 1 activated; flashes if a Bed Exit event occurs.</td>
<td>AMBER</td>
</tr>
<tr>
<td>G</td>
<td><strong>Zone 2 LED</strong>: LED is illuminated when Bed Exit is “On” and Zone 2 activated; flashes if a Bed Exit event occurs.</td>
<td>AMBER</td>
</tr>
<tr>
<td>H</td>
<td><strong>Zone 3 LED</strong>: LED is illuminated when Bed Exit is “On” and Zone 3 activated; flashes if a Bed Exit event occurs.</td>
<td>AMBER</td>
</tr>
</tbody>
</table>

Signature Green Color Option Shown
**LED INDICATORS: FOOTBOARD (CONTINUED)**

**Signature Green Color Option Shown**

<table>
<thead>
<tr>
<th>LED</th>
<th>Name: Function</th>
<th>LED Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td><strong>Bed Motion Lock LED:</strong> LED is illuminated when Bed Motion Lock is activated or when the Patient Control (Fowler, Gatch, Bed Up/Down) Lock buttons are activated.</td>
<td>AMBER</td>
</tr>
<tr>
<td>B</td>
<td><strong>Fowler 30°+ LED:</strong> LED is illuminated when the Fowler 30+ is locked. The LED will blink if the iBED Awareness system is “On”, the Fowler 30+ is being monitored and the Fowler goes below 30 degrees or the Fowler 30+ is turned “Off”.</td>
<td>AMBER</td>
</tr>
<tr>
<td>C</td>
<td><strong>Low Height LED:</strong> LED is illuminated when bed is in low height. The LED will blink if the iBED Awareness system is “On”, the low height is being monitored, and the bed is not in low height.</td>
<td>AMBER</td>
</tr>
<tr>
<td>D</td>
<td><strong>Brake LED:</strong> LED is illuminated when the brake is set, and will blink if the brake is not set.</td>
<td>AMBER</td>
</tr>
<tr>
<td>E</td>
<td><strong>Bed Exit LED (Optional):</strong> LED is illuminated when the Bed Exit is armed. The LED will blink if the Bed Exit is turned Off while the iBED Awareness system is turned On or if Bed Exit alarms while monitored by iBED Awareness system.</td>
<td>AMBER</td>
</tr>
<tr>
<td>F</td>
<td><strong>Bed Zero LED (Optional /BED Awareness):</strong> LED is illuminated if Bed Zero is successful.</td>
<td>AMBER</td>
</tr>
<tr>
<td>G</td>
<td><strong>Siderail LED (Optional /BED Awareness):</strong> LED is illuminated if /BED Awareness system is “On”. The LED will blink when siderail state has changed.</td>
<td>AMBER</td>
</tr>
<tr>
<td>H</td>
<td><strong>Power LED:</strong> LED is illuminated when bed has power.</td>
<td>GREEN</td>
</tr>
</tbody>
</table>
DISPLAY SCREENS

There are 4 types of display screens listed by priority below with one being the highest.

Types

<table>
<thead>
<tr>
<th>Screen</th>
<th>Type</th>
<th>Priority</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alarm Indications</td>
<td>Bed Exit Alarm Message</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Brake Alarm Message</td>
<td>2</td>
</tr>
<tr>
<td>Messages</td>
<td>iBED Awareness Alert Messages</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Conditional Message</td>
<td>4</td>
</tr>
<tr>
<td>Menus</td>
<td>Main Menu</td>
<td>5</td>
</tr>
<tr>
<td>Status Screen</td>
<td>Default Screen</td>
<td>6</td>
</tr>
</tbody>
</table>

1. Power Up

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

![Figure 1](image1)

2. 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:

![Figure 2](image2)

3. Message Screen
   - As required message screens are provided during alarm conditions and user interaction with the bed.

4. Main Menu
   - The Menu screen provides a list of available features accessible to the operator.
OPTIONAL CHAPERONE BED EXIT

Signature Green Color Option Shown

1. Before positioning the patient on the bed, the scale system must be zeroed for the Bed Exit System to function properly (see page 32 for instructions on zeroing the scale system).
2. Position the patient on the bed and press the “Arm/Disarm” button to activate the Bed Exit function. The footboard “Bed Exit” LED and dashboard “Bed Exit” LED will turn on.

⚠️ WARNING

The Bed Exit System is intended only to aid in the detection of a patient exiting the bed. It is NOT intended to replace patient monitoring protocol. It signals when a patient is about to exit. Adding or subtracting objects from the bed after arming the bed exit system may cause a reduction in the sensitivity of the bed exit system. 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.
Footboard Operation Guide

CHAPERONE BED EXIT WITH ZONE CONTROL

1. Before positioning the patient on the bed, the scale system must be zeroed for the Bed Exit System to function properly (see page 32 for instructions on zeroing the scale system).
2. Position the patient on the bed and press the “Arm/Disarm” button to activate the Bed Exit function. The footboard “Zone 1” LED and dashboard “Bed Exit” LED will turn on.
3. The Bed Exit system with Zone Control automatically selects Zone 1. To change the Zone, press and hold the “Zone” button until the light indicating the desired Zone comes on.
4. To deactivate Bed Exit, press the “Arm/Disarm” button. The selected footboard Zone light and the dashboard “Bed Exit” lights will turn off.

**WARNING**

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 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 ± .5 inches.
OPTIONAL SCALE SYSTEM

Weighing a Patient on the Scale System

The scale feature provides information to the caregiver on the weight of a patient.

To Weigh a Patient:

1. Press and hold the (“Scale”) button.
2. “Release Button” message flashes on the display as shown in figure 40.
3. Release the “Scale” button.
4. After the “Scale button has been released, “Weighing ... Do Not Touch Bed” message will flash on the display as shown in Figure 41.
5. When weighing has been completed, the patient’s weight will be displayed on the status screen as shown in Figure 42. The patient weight displayed is stored in the system for later use.

NOTE

• Pressing the scale button again within 60 seconds of the first press (this means that the scale data is still being displayed on the status screen), will remove the data from the screen. This second button press will remove the data so that the operator can walk away and not worry about having the data available to non-authorized persons. The second button press will not log a value into the weight log. If the operator would like to have two consecutive readings within 60 seconds, then the operator will need to press the button once for the first weight reading, a second time will remove the weight information from the display and then a third time to take another weight reading
• If weight is displayed the “Scale” button can be pressed to turn off the scale.

CAUTION

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 scale system to weigh inaccurately.

WARNING

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.
OPTIONAL SCALE SYSTEM (CONTINUED)

Zeroing The Scale System

This feature provides the operator to zero the bed prior to weighing patient. Do not zero the bed while a patient is in the bed. If this should occur, remove the patient and zero the bed again. If the Bed Exit is armed, you must disarm it before the scale can be zeroed.

To Zero the Bed:

1. Press and hold the \textbf{Zero} ("Zero") button.
2. \textbf{"Hold to Zero Bed"} message will appear briefly on the display as shown in figure 43.
3. Immediately following the \textbf{"Hold to Zero Bed"} message, the \textbf{"Release Button"} message will flash on the display as shown in Figure 44.
4. Release the \textbf{"Zero"} button.
5. After the \textbf{"Zero"} button has been released, \textbf{"Do Not Touch Bed"} message will flash on the display as shown in Figure 45.
6. When zeroing has been completed:
   a. \textbf{"Zeroing Successful"} message will be shown on the display as shown in Figure 46.
   b. The Dashboard Bed Zero LED will illuminate.
   c. The display will show the status screen with the scale information as shown in Figure 47.
7. The bed is now ready for the patient.

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{Figure43.png}
\caption{Hold to Zero Bed}
\end{figure}

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{Figure44.png}
\caption{Release Button}
\end{figure}

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{Figure45.png}
\caption{Do Not Touch Bed}
\end{figure}

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{Figure46.png}
\caption{Zeroing Successful}
\end{figure}

\begin{figure}[h]
\centering
\includegraphics[width=\textwidth]{Figure47.png}
\caption{Status Screen}
\end{figure}

\textbf{Note}

If there is a problem with a load cell or another component of the scale system, the system will try to zero up to 30 seconds, after which the scale monitor will read: \textquotedblleft Unable to Zero - Try Again\textquotedblright if unsuccessful.

If the problem continues after three attempts, the scale system will lock and the scale monitor will read: \textquotedblleft Unable to Zero\textquotedblright.
MENU

- The Main Menu screen contains selectable product features to the caregiver. There are eight features listed in the main menu as ordered below:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Weight Log</td>
<td>Weight Log is the Default Selection</td>
</tr>
<tr>
<td>2. Gain/Loss</td>
<td></td>
</tr>
<tr>
<td>3. Change Equip.</td>
<td>Change Equipment</td>
</tr>
<tr>
<td>5. Scale Units</td>
<td>Change Scale Units</td>
</tr>
<tr>
<td>6. Backlight</td>
<td>Backlighting</td>
</tr>
<tr>
<td>7. Advanced Options</td>
<td></td>
</tr>
<tr>
<td>8. Exit Menu</td>
<td></td>
</tr>
</tbody>
</table>

- To select a feature, press the “Menu Up” and “Menu Down” button to scroll to the desired feature. Highlight the desired feature to select and then press the “Enter” button.

1. Weight Log

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

To display a list of the previous 10 weight readings:
- Press the “Menu” button and select the item “Weight Log”.
- Press the “Up” or “Down” buttons to scroll through the weight log.
- A weight reading is logged each time the scale button is pressed and the bed is in the scale mode for at least 15 seconds.
- 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.

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 Enabled” 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.
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 or if the operator did not press the button long enough the message “Hold Button Longer” will appear in the message window.
- When “Release to Start” message displays on the screen, release the “Enter” 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” 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” is pressed, “Operation Canceled” message will display.
- Figure 9 will be displayed when the system completes the change equipment adjustment.
- The status screen will then display the weight of the patient only.

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” 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” to cancel operation.
- If “Enter” is pressed, the message “Do Not Touch Bed” will flash on the display.
- If “Exit” is pressed, “Patient Weight Changed” message will display.
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” button.
- The default setting is “lb”

6. Backlight

- 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. Awareness Alarm
4. Status To N/C

Advanced Options: 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.
- Select desired Tone Pattern and Press “Enter”
- “Save Successful” message will be displayed.
MENU (CONTINUED)

Advanced Options: Brake Alarm

The caregiver can enable or disable an audible brake alarm feature. If enabled and the brakes are not engaged when 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” to save the alarm state.
- “Save Successful” message will be displayed.

Advanced Options: iBED Awareness Alarm (Audible)

The caregiver can enable or disable an audible alarm for iBED Awareness alert states.

To Enable/Disable Alarm:
- Select “Awareness Alarm” from the menu.
- Select “On” to Enable or “Off” to disable and then press “Enter”
- “Save Successful” message will be displayed.

Advanced Options: 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 iBED 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.
iBED AWARENESS FUNCTIONALITY

- The iBED 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 the Bed Exit is armed and/or the Fowler 30°+ lock is “On”, the system will also monitor these features when iBED Awareness is turned “On”. Note: If the Fowler 30°+ lock is “On” before iBED Awareness is “On”, the system will also monitor the Fowler 30°+ lock.
- In the event of a power loss, the iBED Awareness system will store the last known condition and when power is restored it will operate in this condition.
- iBED Awareness will not be able to be turned “On” if any system error conditions exist that impede the function of the iBED Awareness system. The system errors that affect this feature include the four siderail sensors, the scale system, the Fowler 30°+ lock and the bed exit system. For details on error codes, refer to the Maintenance Manual.

iBED AWARENESS LIGHT BAR AND SIDE LIGHTS

A light bar, located centrally on the front of the footboard, will illuminate and indicate the state of the iBED Awareness system. Side lights located on the sides of the footboard will behave identical to the center light.

Features
- When the iBED Awareness system is “On” the light bar turns green.
- If an alert state on the iBED 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.

iBED AWARENESS ON/OFF BUTTON

The On/Off control button is used to turn the iBED Awareness system “On” and “Off”.

Features
When the button is pressed the iBED Awareness system will save information based on the current state of the product and based on the system rules will commence monitoring.

Turning on the iBED Awareness system
1. Press the iBED On/Off button.
2. The following message will be displayed on the screen: “Awareness On”.

Turning off the iBED Awareness system
1. Press and hold the iBED On/Off button.
2. The following message will be displayed on the screen: “Awareness Off”.

Footboard Operation Guide
iBED 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 the message in Figure 13 and the message in Figure 14.

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

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

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 the message in Figure 19 and the message in Figure 20.

**Fowler 30°+ Lock**
- If the fowler 30°+ lock state changes from a locked to an unlocked state:
  1. The fowler 30°+ lock LED on the dashboard blinks and the display screen flashes between the message in Figure 21 and the message in Figure 22.

- If the fowler 30°+ lock state changes to a lowered position:
  1. The fowler 30°+ lock LED on the dashboard blinks and the display screen flashes between the message in Figure 23 message and the message in Figure 24.

**Additional Alarm Conditions**
- If an audible alarm is required, the caregiver can set the Awareness alarm to “On” through the Advanced Options Menu in the Main Menu.
- If the caregiver would like to set the Awareness 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”.
Footboard Operation Guide

iBED AWARENESS LOCKS

Fowler 30°+ Lock Button

- The Fowler 30°+ lock is a dual purpose button. It positions the Fowler to 30° and removes the bed out of trend.
- When the Fowler 30°+ lock button is pressed, the bed will reposition if it needs to and Figure 25 will be displayed.
- Once the bed reaches its final position, Figure 26 will be displayed.
- If the button is not held until the final position is reached Figure 27 will be displayed.
- If bed is put in CPR position manually or by pressing the CPR button, Figure 28 will be displayed.
- If the bed is at its final fowler 30°+ position (Trend = 0°, fowler = 30°) and the user presses either the fowler down or trend buttons, the display will toggle between figures 31 and 32.

Bed Motion Lock

- If Bed Motion lock button is pressed, Figure 29 will be displayed.
- If Bed Motion lock button is pressed when already “on” then Figure 30 will be displayed.
- If Motion is attempted when lock is “On,” the display screen flashes between Figure 31 and 32.

Note: The CPR Drop button overrides all locks.

Patient Control Locks

- If any of the Patient Control lock buttons are pressed, Figure 29 as shown above will be displayed.
- If any of the Patient Control lock buttons are pressed when already “on” then Figure 30 as shown above will be displayed.
Optional Pendant Operation Guide

PENDANT - MOTION/NURSE CALL
(3006-315-011)

- Press to activate Nurse Call.
- Press to raise head section.
- Press to lower head section.
- Press to raise knee section.
- Press to lower knee section.

PENDANT - MOTION/NURSE CALL/SMART TV (DIGITAL)
(3006-315-012)

- Press to activate Nurse Call.
- Press to turn on/off the TV.
- Press to increase the volume of the TV.
- Press to decrease the volume of the TV.
- Press to change to a higher numbered channel.
- Press to change to a lower numbered channel.
- Press to raise head section.
- Press to raise knee section.
- Press to lower head section.
- Press to lower knee section.
- Press to turn on/off room lights.
- Press to turn on/off reading lights.
CAUTION

Unplug bed prior to cleaning or servicing unit.

Hand wash all surfaces of the bed with warm water and mild detergent. DRY THOROUGHLY. Do not steam clean or hose off the 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.

CAUTION

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 a 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 AFTER EACH USE. Saturate Velcro with disinfectant and allow disinfectant to evaporate. (Appropriate disinfectant for nylon Velcro should be determined by the hospital).
Preventative Maintenance

Beds require an effective maintenance program, we recommend checking these items annually. Use this sheet for your records. Keep on file.

CHECKLIST

_____ All fasteners secure (reference all assembly prints).
_____ Engage brake pedal and push on the bed to ensure all casters lock securely.
_____ Inspect the brake assembly (Brake Ratchet Spring and Brake Bar) for degradation or signs of wear at the foot end and head end of the bed. Ensure brake assembly components (locking caster and springs) are functioning properly.
_____ "Brake" LED on the footboard and head end siderails blink when brakes are not engaged.
_____ Locking steer caster engages and disengages properly.
_____ Siderails move, latch and stow properly.
_____ CPR release working properly.
_____ Foot prop intact and working properly.
_____ I.V. pole working properly.
_____ Foley bag hooks intact.
_____ Optional CPR board not cracked or damaged and stores properly.
_____ No cracks or splits in head and footboards.
_____ No rips or cracks in mattress cover.
_____ All functions on head end siderails working properly (including LED’s).
_____ All functions on footboard working properly (including LED’s).
_____ Scale and Bed Exit system calibrated properly.
_____ Motion Interrupt switches working properly.
_____ Night light working 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 the Litter grease points and fowler motor clutch (see page 44 for locations).
_____ Ensure ground chains are clean, intact, and have at least two links touching the floor.
_____ Check Fowler angle for accuracy 0° - 60°.
_____ Siderail switches working properly (iBED Awareness option).
_____ Center Light Bar LED and side light LED working properly (iBED Awareness option).
_____ Inspect footboard control labeling for signs of degradation.
_____ Inspect siderail gas spring for oil leaks and replace if necessary.
_____ Check labels, as specified in the Operations and Maintenance manuals to ensure legibility, proper adherence, and integrity.

<table>
<thead>
<tr>
<th>Bed Serial Number:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Completed by: ___________________________  Date: _______________
Preventative Maintenance

GREASE POINTS

1. H/E Glide Rod
2. Ball Screw
3. Brake Spring

Siderail Assembly (Reference p/n: 3006-400-105 (Head End) and 3006-400-300 (Foot End))

1. Apply Syn-Tech NS-18191-G grease (p/n 3000-200-700) to Glide Rod surface.

Fowler Drive Assembly (Reference p/n: 3006-300-550)

1. Apply Mobile #28 grease to entire length of ball screw.
2. If dry, apply a thin film layer of Syn-Tech grease (p/n 3000-200-700) to the outside of the brake spring.
LIMITED WARRANTY

Stryker Medical Division, a division of Stryker Corporation, warrants to the original purchaser the Signature Series MedSurg Bed, Model 3002 S3 to be free from defects in material and workmanship for a period of one (1) year after date of delivery. Stryker’s obligation under this warranty is expressly limited to supplying replacement parts and labor for, or replacing, at its option, any product which is, in the sole discretion of Stryker, found to be defective. If requested by Stryker, products or parts for which a warranty claim is made shall be returned prepaid to the factory. Any improper use or any alteration or repair by others in such manner as in Stryker’s judgment affects the product materially and adversely shall void this warranty. Any repair of Stryker products using parts not provided or authorized by Stryker shall void this warranty. No employee or representative of Stryker is authorized to change this warranty in any way.

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

Stryker Medical optional components and/or accessories are warranted as follows:

- Motion/Nurse Call Pendant: Two (2) years service life under normal use and proper care
- Motion/Nurse Call/SmartTV Pendant: Two (2) years service life under normal use and proper care

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.

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
Warranty

SERVICE CONTRACT PROGRAMS

Stryker offers the following service contract programs:

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

* 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.
## Guidance and Manufacturer’s declaration - Electromagnetic Immunity

The S3 MedSurg Bed is suitable for use in the electromagnetic environment specified below. The customer or the user of the S3 MedSurg Bed should assure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Immunity Test</th>
<th>IEC 60601 Test Level</th>
<th>Compliance Level</th>
<th>Electromagnetic Environment Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrostatic Discharge (ESD)</td>
<td>IEC 61000-4-2</td>
<td>+6 kV contact +8 kV air</td>
<td>Floors should be wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.</td>
</tr>
<tr>
<td>Electrostatic fast Transient/burst</td>
<td>IEC61000-4-4</td>
<td>+2 kV for power supply lines +1 kV for input/output lines</td>
<td>Main power quality should be that of a typical commercial or hospital environment.</td>
</tr>
<tr>
<td>Surge</td>
<td>IEC 61000-4-5</td>
<td>±8 kV differential mode +2 kV common mode</td>
<td>Main power quality is that of a typical commercial and/or hospital environment.</td>
</tr>
<tr>
<td>Voltage dips, voltage variations and short interruptions on power supply input lines</td>
<td>IEC 61000-4-11</td>
<td>&lt;5%Ut (95% dipUt) for 0.5 cycle 40%Ut (60% dop in Ut) for 5 cycles 70%Ut (30% dip in Ut) for 25 cycles. &lt;5% Ut (&gt;95% dip in Ut) for 5 sec.</td>
<td>Main power quality should be that of a typical commercial and/or hospital environment. If the user of the S3 MedSurg Bed requires continued operation during power main interruptions, it is recommended that the device be powered from an uninterrupted power supply or a battery.</td>
</tr>
<tr>
<td>Power frequency (50/60 Hz) magnetic field</td>
<td>IEC 61000-4-8</td>
<td>3 A/m</td>
<td>Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial and/or hospital environment.</td>
</tr>
</tbody>
</table>

Note: $U_T$ is the a.c. mains voltage prior to applications of the test level.
The S3 MedSurg Bed is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the S3 MedSurg Bed can help prevent electromagnetic interferences by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the S3 MedSurg Bed as recommended below, according to the maximum output power of the communications equipment.

<table>
<thead>
<tr>
<th>Rated maximum output power of transmitter W</th>
<th>Separation distance according to frequency of transmitter</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 kHz to 80 MHz</td>
<td>80 MHz to 800 MHz</td>
</tr>
<tr>
<td></td>
<td>8000 MHz to 2,5 GHz</td>
</tr>
<tr>
<td></td>
<td>d=1,2 (\frac{\sqrt{P}}{})</td>
</tr>
<tr>
<td></td>
<td>d=1,2 (\sqrt{P})</td>
</tr>
<tr>
<td></td>
<td>d=2,3 (\sqrt{P})</td>
</tr>
<tr>
<td>0,01</td>
<td>1,12</td>
</tr>
<tr>
<td>0,1</td>
<td>0,12</td>
</tr>
<tr>
<td></td>
<td>0,23</td>
</tr>
<tr>
<td>1</td>
<td>1,2</td>
</tr>
<tr>
<td>10</td>
<td>3,8</td>
</tr>
<tr>
<td>100</td>
<td>12</td>
</tr>
<tr>
<td>100</td>
<td>23</td>
</tr>
</tbody>
</table>

For transmitters rated at a maximum output power not listed above, the recommended separation distance \(d\) in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where \(P\) is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

**Note 1**
At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

**Note 2**
These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.
The S3 MedSurg Bed is suited for use in the electromagnetic environment specified below. The customer or the user of the S3 MedSurg Bed should assure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Immunity Test</th>
<th>IEC 60601 Test Level</th>
<th>Compliance Level</th>
<th>Electromagnetic Environment - Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conducted RF</td>
<td></td>
<td></td>
<td>Portable and mobile RF communications equipment should be used no closer to any part of the S3 MedSurg Bed, including cables, than the recommended separation distance calculated from the equation appropriate for the frequency of the transmitter.</td>
</tr>
<tr>
<td>IEC 6100-4-6</td>
<td>3 Vrms</td>
<td>3 Vrms</td>
<td>Recommended Separation Distance</td>
</tr>
<tr>
<td>Radiated RF</td>
<td>150 kHz to 80 MHz</td>
<td></td>
<td>$d = \frac{1}{2} \sqrt{\frac{P}{f}}$</td>
</tr>
<tr>
<td>IEC 61000-4-3</td>
<td>3 V/m</td>
<td>3 V/m</td>
<td>$d = \frac{1}{2} \sqrt{\frac{P}{f}}$</td>
</tr>
<tr>
<td></td>
<td>80 MHz to 2.5 GHz</td>
<td></td>
<td>$80 \text{ MHz to } 800 \text{ MHz}$</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$d = 2.3$</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$\sqrt{\frac{d}{P}}$</td>
</tr>
</tbody>
</table>

**Note 1**
At 80 MHz and 800 MHz, the higher frequency range applies.

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

*Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast, and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the S3 MedSurg Bed is used exceeds the applicable RF compliance level above, the S3 MedSurg Bed should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the S3 MedSurg Bed.*

*Over the frequency range 150 kHz to 80 MHz, field strengths are less than 3 V/m.*
### Guidance and Manufacturer’s declaration - Electromagnetic Emissions

The S3 MedSurg Bed is intended for use in an electromagnetic environment specified below. The customer or the user of the S3 MedSurg Bed should assure that it is used in such an environment.

<table>
<thead>
<tr>
<th>Emissions Test</th>
<th>Compliance</th>
<th>Electromagnetic Environment</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF Emissions CISPR 11</td>
<td>Group 1</td>
<td>The S3 MedSurg Bed uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.</td>
</tr>
<tr>
<td>RF Emissions CISPR 11</td>
<td>Class A</td>
<td>The S3 MedSurg Bed is suitable for use in all establishments other than domestic and those directly connected to the public low voltage power supply network that supplies buildings used for domestic purposes.</td>
</tr>
<tr>
<td>Harmonic Emissions IEC 61000-3-2</td>
<td>Class A</td>
<td></td>
</tr>
<tr>
<td>Voltage Fluctuations Flicker Emissions IEC 61000-3-3</td>
<td>Complies</td>
<td></td>
</tr>
</tbody>
</table>