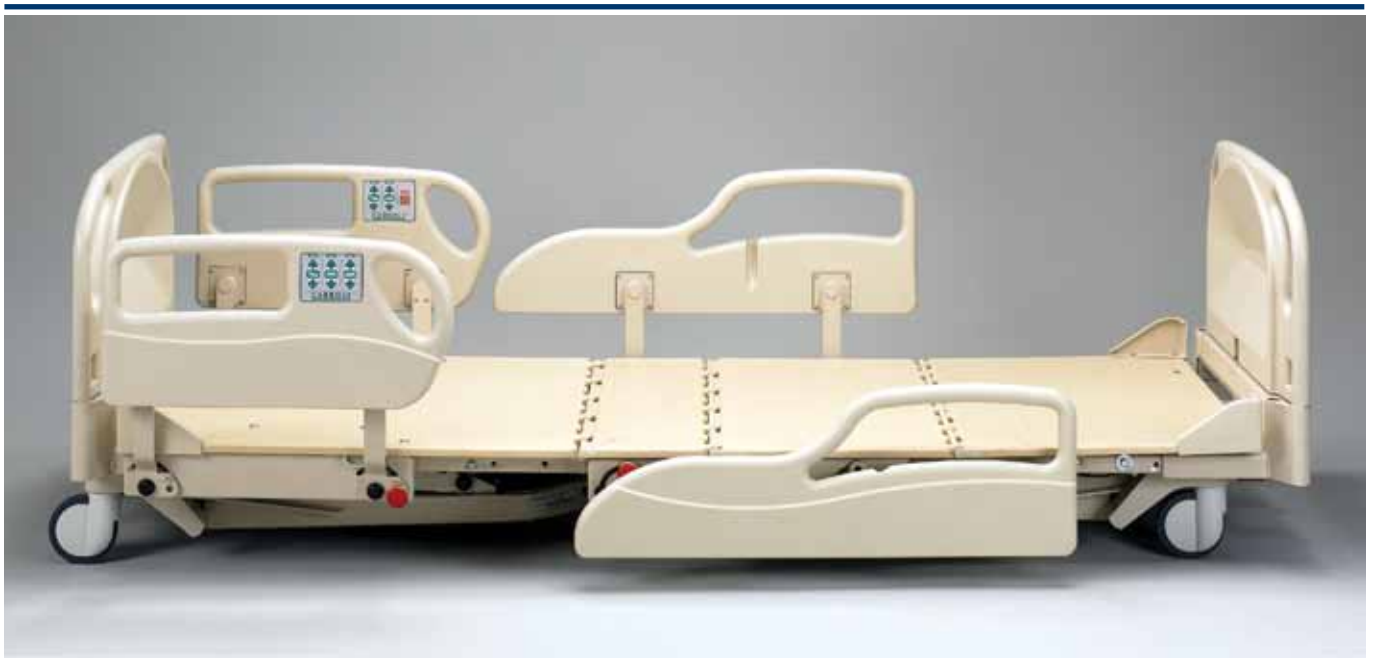


## The SPIRIT™ Ultra Low Bed

### USER MANUAL



It is the duty of all staff who handle the SPIRIT™ bed to read these:-

### GUIDANCE NOTES FOR SAFE USE

CALL OUR HELP LINE ON **01865-409926**  
IF YOU NEED ADVICE OR FURTHER INSTRUCTION

## INTENDED USE

The Spirit™ Bed is intended for low to moderately acute patients in the medical and/or surgical area of the hospital. The Spirit™ Bed is also intended for use as a general-purpose variable height hospital bed for general care, post-operative, and general medicine wards.

## STANDARD CONVENTIONS USED IN THIS MANUAL

This manual includes information essential to the safety of the patient, personnel and equipment during the normal operation of the Spirit™ Bed. Before operating the Spirit™ Bed be sure you read and understood the contents of this manual. It is important that you use this equipment in accordance with the procedures outlined in this manual. As you read through this manual be alert to the three signal words.



**DANGER** Information appearing under the DANGER caption concerns the protection of personnel from the immediate and imminent hazards that, if not avoided, will result in immediate, serious personal injury or loss of life in addition to equipment damage.



**WARNING** Information appearing under the WARNING caption concerns the protection of personnel from potential hazards that can result in personal injury or loss of life in addition to equipment damage.



**CAUTION** Information appearing under the CAUTION caption concerns the protection of personnel from potential hazards that can result in minor personal injury or equipment damage.

## IMPORTANT ELECTRICAL SAFEGUARDS

### DANGER



- Plug the three prong electrical cord ONLY into a properly grounded 230 VAC, 50 cycle outlet.
- DO NOT use an extension cord.
- DO NOT permit the cord, wall outlet to become wet.
- DO NOT operate the bed if the cord or outlet is damaged.
- DO NOT operate the bed if any motor has malfunctioned or is damaged in any manner.



During routine bed cleaning, always unplug the three-prong plug from grounded outlet.



DO NOT roll the bed over the power cord. DO NOT entangle the cord on other objects. A pinched electric cord is dangerous and can become damaged. Be aware of the power cord location especially when moving the bed.



### AUXILIARY BATTERY

**NOTE** The battery is continuously charged as long as the bed's power supply is plugged into a 230 VAC wall outlet.

## IMPORTANT MECHANICAL SAFEGUARDS

### WARNING



DO NOT stand on the bed or concentrate weight on a single fiberglass deck panel.



DO NOT use the bed without a mattress at least 4" (100mm) thick and of recommended dimensions.

#### MATTRESS SPECIFICATIONS

A mattress is not included with this bed. It is highly recommended that you use a 35.5" (900mm) wide mattress that is designed to conform to the bed length of 80" (2032mm).



Possible patient ENTRAPMENT Hazard if using non-specified mattress, patient entrapment may result in an injury. Use only a mattress of recommended specifications with this bed.

- DO NOT use without a special mattress specifically designed to bend and conform to the shape of the bed.
- DO NOT use a water filled or gel filled mattress on this bed.



#### GENERAL PRECAUTIONS

- Do not use headboards or footboards from other manufacturers.
- Ensure all deck hinges are properly aligned before raising head or knee sections.
- Ensure that the headboard and footboard are properly attached to the frame.



- This bed is rated to 35 stone / 227kg. DO NOT overload the bed. The combined weight of patients, visitors, mattress and bedding must NOT exceed 35 stone / 227kg. The maximum load on either side rail is 12 stone / 77kg.

## AT THE INSTALLATION

The person supplying and setting up the bed will show staff how it operates.

All staff that may come into contact with the bed whether nurses, cleaners or porters will need to understand how the bed operates.

A further training session may be required for the above standard to be met and in order to consolidate staff competence.



**REMEMBER:  
TRAINING IN THE USE OF EQUIPMENT IS A LEGAL REQUIREMENT**

**The prerequisites for using the Spirit Ultra Low bed are that it has been electrically tested and that the person operating it has had instruction in its use. The bed must also have an up-to-date hospital inspection record.**

## WARNING



Familiarise yourself with the various functions.



Care should be taken that there is no wall - mounted obstruction to prevent the bed moving vertically.



Ensure that nothing can get trapped underneath the bed when it is lowered.  
(Examples: slippers / pillows / walking sticks etc.)



It is essential that the power cable does not get trapped between moving parts. Check before lowering the bed.



DO NOT allow patients to fall on the bed.



DO NOT Jump on the bed.



Each of the preceding impacts can permanently damage either Hi/Lo motor resulting in an inoperable bed. In the case of an inoperable bed due to a damaged Hi /Lo motor remove the bed from service and replace the Hi/Lo motor immediately. If left unattended, a damaged Hi/Lo motor could result in patient injury.



ONLY use original manufacturers replacement parts

## BED POSITIONING

### BED ELEVATION - HI-LO FUNCTION

To raise the bed, press the BED UP arrow on the staff control pad. See DIA 10. Release the button when the desired level is reached. See DIA 11

To lower the bed, press BED DOWN arrow on the staff control pad. See DIA 12. Release the button when the desired level is reached. See DIA 13

### HEAD ELEVATION - HEAD MOTOR FUNCTION

To raise the head section of the bed, press the HEAD UP arrow on the staff control pad. See DIA 14. Release the button when the desired level is reached. See DIA 15

To lower the head section of the bed, press the HEAD DOWN arrow on the staff control pad. See DIA 16. Release the button when the desired level is reached. See DIA 17

### KNEE ELEVATION - FOOT MOTOR FUNCTION

To raise the Knee section of the bed, press the KNEE UP arrow on the staff control pad. See DIA 18. Release the button when the desired level is reached. See DIA 19

To lower the Knee section of the bed, press the KNEE DOWN arrow on the staff control pad. See DIA 20. Release the button when the desired level is reached. See DIA 21



DIA 10



DIA 11



DIA 12



DIA 13



DIA 14



DIA 15



DIA 16



DIA 17



DIA 18



DIA 19



DIA 20



DIA 21

## AUTO CONTOUR

### ACTIVATE AUTO CONTOUR

In order to prevent patients from sliding towards the footboard as the head section is elevated, it may be beneficial to use the auto contour function. This function will automatically raise/lower the knee section whenever the head section is raised or lowered (DIA 22). To activate auto contour, simply press the CONTOUR button at the bottom right corner of the staff control pad (DIA 23). When the green light is illuminated, the auto contour function is active.



DIA 22



DIA 23

## STAFF AND EMERGENCY FUNCTIONS TRENDELENBURG AND REVERSE TRENDELENBURG OPERATION

### CAUTION



Patient discomfort may result from normal operation of the Trendelenburg or Reverse Trendelenburg function.

Trendelenburg and Reverse Trendelenburg modes should only be used on the advice of a medical practitioner.

### WARNING



The Spirit™ bed may shift during Trendelenburg or Reverse Trendelenburg activation.

Trendelenburg or Reverse Trendelenburg must be operated ONLY after the bed has been stabilized in the Central Lock & Steer LOCK position.

## ACTIVATE TRENDELENBURG MODE

1. Press and hold the TREND button on the staff control pad. Release the button once the desired bed angle between 0° and 15° is reached. See DIA 24 and 25
2. To return the bed to level, press and hold the REV TREND button until the bed automatically stops.



DIA 24



DIA 25

### ACTIVATE REVERSE TRENDELENBURG MODE

1. Press and hold the rev. TREND button on the staff control pad. Release the button once the desired bed angle between 0° and 13° is reached. See DIA 26 and 27
2. To return the bed to level, press and hold the TREND button until the bed automatically stops.



DIA 26



DIA 27

## CHAIR MODE

The "Chair" function allows patients to be placed in an upright position.

### WARNING



Chair mode must be operated only after the Central Lock & Steer pedal has been put in the LOCK position.

#### ACTIVATE CHAIR MODE

Press and hold the CHAIR button on the staff control pad (DIA 28). Release the button once the chair configuration is reached (bed will stop automatically) See DIA 29. The green 'Chair' light will illuminate once the proper Reverse Trendelenburg angle has been achieved.

To deactivate the Chair Mode, press and hold the CHAIR button until the bed is flat. The bed will stop automatically.



DIA 28



DIA 29

## CPR (CARDIOPULMONARY RESUSCITATION) MODE

### CAUTION



Improper use of CPR mode may cause patient injury.

Once activated, CPR function will lower head and knee sections to flat position automatically. To interrupt CPR function, touch any other button on the keypad.

Activation of the CPR control allows one-touch flattening of all bed surfaces.

#### ACTIVATE CPR MODE

Press the CPR button on the staff control pad one time. The head section and knee section will lower to flat position. See DIA 30 and 31.

The CPR mode does not need deactivation. Simply resume head and knee-foot operation once the CPR action is complete.

To Interrupt the CPR mode, touch any other function on the keypad.



DIA 30



DIA 31



## PATIENT LOCKOUTS

### ACTIVATE INDIVIDUAL FUNCTION LOCKOUTS

Patient Lock-out restricts the patient from activating various bed features via the quad rail control pad. The degree of restriction depends on the lock out option selected.

Staff may choose to lock patients access to one, two, or all three bed functions. To restrict a function, press the "PATIENT LOCK" button under that particular function (see DIA 32). The lock icon will illuminate when the function is locked-out for the patient. To unlock, press the same button again. When the light is not illuminated, the patient has access to that function.

**NOTE: When patient functions have been locked, the staff footboard control pad remains active.**

### ACTIVATE TOTAL LOCK-OUT

To completely restrict access to all bed functions from all control points (staff and patient controls), use the total lock-out function.

Press and hold all three lock-out buttons at the same time (DIA 33). All functions on the staff footboard control pad and all patient controls are unavailable. Total lock-out is active when all three lock-out buttons flash sequentially.

To deactivate the total lock-out feature, repeat the process by pressing and holding all three lock-out buttons at the same time.



DIA 32



DIA 33

## WARNING



When left unattended, the bed should be lowered to its lowest position with the "Bed Elevation" function locked-out in order to reduce the risk of patient injury.



## SPIRIT™ POWER STATUS INDICATOR

The enhanced footboard staff control on the Spirit Select™ is equipped with an integrated power status indicator. This cluster of 3 discrete icons indicate the realtime status of power available to operate the bed. The icons will illuminate respective of the source of power, the operation of the battery charging circuit, and the level of battery power.

The battery is continuously charged when connected to the CB10 control box and the bed is plugged into an AC power outlet. If the battery voltage drops below 18VDC, battery power will be automatically disrupted to prevent further discharge which could impact the battery's ability to fully recharge. When the bed is plugged back into an AC power outlet, battery power will be automatically restored.

### INDICATOR LED IS SOLID GREEN

Bed is connected to an AC power outlet and operating on AC power. The battery is connected to the CB10 control box and is fully charged. Bed is ready to operate on battery power if required. This is the optimum operating condition for the bed.

### INDICATOR LED IS FLASHING GREEN

Bed is connected to an AC power outlet and operating on AC power. The battery is connected to the CB10 control box but is currently recharging.

### INDICATOR LED IS ALTERNATING FLASHING GREEN AND RED

**IMPORTANT:** Bed may not reliably operate on battery power if required. Bed is connected to an AC power outlet and operating on AC power. The battery is connected to the CB10 control box but not holding proper charge. Service bed and/or replace battery immediately.

#### OR

The battery is not connected to the CB10 control box. Connect battery to CB10 and allow battery to charge for 24hr.

### INDICATOR LED IS SOLID RED

Bed is disconnected from an AC power outlet and is operating on battery power. The battery is connected to the CB10 control box and has not yet exhausted the available battery power. Bed is OK to operate on battery power but it should be connected to an AC power outlet as soon as is possible to recharge the battery.

**IMPORTANT:** Exercise caution when operating the bed on battery power. Ensure that only vital and

necessary bed functions are performed to extend battery power as long as possible and ensure emergency functions remain available when needed.



### INDICATOR LED IS FLASHING RED

Bed is disconnected from an AC power outlet and has been operating on battery power. Although the battery is connected to the CB10 control box, it has exhausted its battery power. Reconnect bed to an AC power outlet as soon as possible and allow battery to charge for 24hr.

**IMPORTANT:** At this point, reliable bed operation cannot be guaranteed although some bed functionality may still be available. Exercise caution operating the bed as the bed will cease operation without warning.

### NO INDICATOR LED ILLUMINATION

**IMPORTANT:** Bed may NOT operate.

The bed has been disconnected from an AC power outlet and the battery is disconnected from the CB10 control box. Reconnect bed to an AC power outlet and allow battery to charge for 24hr.

#### OR

The bed has a faulty connection or component (CB09 control box, CB10 control box, battery, and/or connection cable). Confirm all connections and begin troubleshooting potentially faulty components.

#### OR

The bed has been disconnected from an AC power outlet and the battery has been automatically disengaged from the battery circuit because the voltage has dropped below 18VDC. Reconnect bed to an AC power outlet and allow battery to charge for 24hr.

#### NOTE:

In-house testing has demonstrated that a new back-up battery, when fully charged, has sufficient power to deliver the equivalent of approximately 5 CPR cycles with a patient weight of 20 Stone (120kgs)

Battery power discharge rate depends upon factors such as patient weight, age of battery, ambient temperature and humidity, and the number of charge/discharge cycles the battery has been subjected to. For example, the heavier the patient, the faster battery power will be exhausted during battery powered bed operation. Conversely, the lighter the patient, battery power may offer a longer duration of battery powered bed operation.



## PATIENT QUAD RAIL CONTROL PAD

### HEAD ELEVATION FUNCTION

To raise the head section of the bed, press the HEAD UP arrow, release the button when the desired level is reached.

To lower the head section of the bed, press the HEAD DOWN arrow, release button when the desired level is reached.

### KNEE ELEVATION FUNCTION

To raise the knee section of the bed, press the KNEE UP arrow, release button when the desired level is reached.

To lower the knee section of the bed, press the KNEE DOWN arrow, release button when the desired level is reached.

## CAUTION



It is recommended that you de-activate auto contour on the staff control pad, when patient has full control of head and foot profile functions.



## QUAD-RAIL STAFF CONTROL PAD

### **HEAD PROFILE ELEVATION FUNCTION**

To raise the head section of the bed, press the HEAD UP arrow, release the button when the desired level is reached.

To lower the head section of the bed, press the HEAD DOWN arrow, release button when the desired level is reached.

### **KNEE PROFILE ELEVATION FUNCTION**

To raise the knee section of the bed, press the KNEE UP arrow, release button when the desired level is reached.

To lower the knee section of the bed, press the KNEE DOWN arrow, release button when the desired level is reached.

### **BED HIGH/LOW ELEVATION FUNCTION**

To raise the bed, press the BED UP arrow, release button when the desired level is reached.

To lower the bed, press BED DOWN arrow, release button when the desire level is reached.

## OPERATION OF THE QUAD SIDERAILS

In the UP position, the Quad siderails provide positive patient location and support helping to protect the patient from the potential of falling from the bed.

**IMPORTANT:** An audible “click” should be heard when each siderail assembly has been completely rotated into the UP position as the locking mechanism engages.



The DOWN position, the Quad siderails fully rotate out of the way to provide unimpeded and unassisted patient ingress to and egress from the bed and also enables patient transfer by staff.

**IMPORTANT:** The siderails will not lock in the DOWN position.



## RAISING THE FOOT SIDERAILS

Gently rotate the foot siderail to the UP position. The foot siderail will first arc toward the foot end of the bed then back towards the head end of the bed as it rotates to the UP position.

**IMPORTANT:** An audible “click” should be heard when the foot siderail has been completely raised to the UP position as the locking mechanism engages.



## LOWERING THE FOOT SIDERAILS

Depress the green push button then gently push down on the foot siderail. The foot siderail will first arc towards the foot end of the bed then back towards the head end of the bed as it rotates to the DOWN position.

**IMPORTANT:** The foot siderails will not lock in the DOWN position.





## RAISING THE HEAD SIDERAILS

Gently rotate the head siderail to the UP position. The head siderail will first arc toward the head end of the bed then back towards the foot end of the bed as it rotates to the UP position.

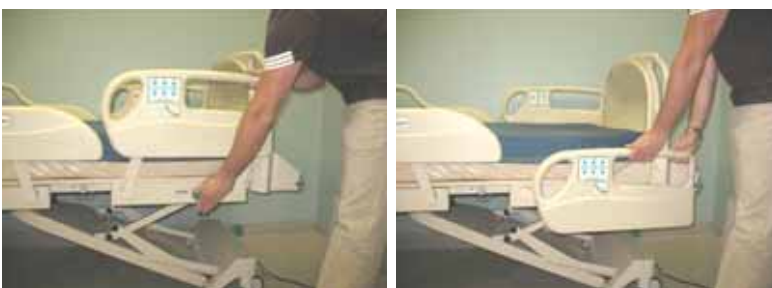
**IMPORTANT:** An audible “click” should be heard when the head siderail has been completely raised to the UP position as the locking mechanism engages.



## RAISING THE HEAD SIDERAILS

Depress the green push button then gently push down on the head siderail. The head siderail will first arc towards the head end of the bed then back towards the foot end of the bed as it rotates to the DOWN position.

**IMPORTANT:** The head siderails will not lock in the DOWN position.



## BED OPERATION

### CENTRAL LOCK AND STEER SYSTEM

#### WARNING



Unintended bed movement may occur if bed is left in either of the mobilized positions, “STEER” or “NEUTRAL”.

Never leave the bed unattended in either the “STEER” or “NEUTRAL” positions.

Do not move the bed until the mobilization system has been activated.

#### MODE

##### LOCK

Typical mode used to stabilize the bed from shifting. This mode prevents the bed from moving forward, backward or sideways.

##### STEER

Mode used when attempting to steer the bed in a desired direction. All caster wheels can still rotate, enabling the bed to move forward or backward.

##### NEUTRAL

Mode used only to manoeuvre the bed in a tight area. This mode allows the bed to move forward, backward or sideways.

#### FUNCTION

Casters DO NOT swivel or roll

Two head end casters swivel;  
Two foot end casters DO NOT swivel;  
All casters roll

All casters swivel and roll

#### PEDAL POSITION



DIA 34



DIA 35



DIA 36

## MOBILIZATION

### MOBILIZATION

The bed is mobile in either the "NEUTRAL" or "STEER" modes. Use either of these modes depending on the situation, when bed mobility is needed.

#### ACTIVATE STEER MODE

1. Fully depress the right side of the central lock & Steer pedal at either end of the bed. See DIA 36.
2. Slide the bed sideways, in a back and fourth motion, at the foot end of the bed until the steering casters are engaged. See DIA 37.

**NOTE: When the "NEUTRAL" mode is activated properly, the bed should move freely without any unusual noises. If any clicking noises are present in the neutral mode, stop and check that the pedal is level. Adjust, if necessary.**

#### ACTIVATE NEUTRAL MODE

1. Press or lift the pedal with your foot until the pedal is level.



DIA 37



DIA 38



DIA 39

## STABILIZATION

The bed is stable in the "LOCK" mode. Use this mode whenever the bed is left unattended or when the bed needs to remain stable.

#### ACTIVATE LOCK MODE

1. Fully depress the left side of the Central Lock & Steer pedal at either end of the bed. See DIA 39

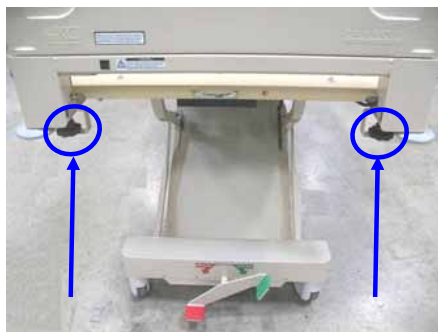


DIA 40



## OPTIONAL "EASY BED" EXTENSION/RETRACTION SYSTEM

To accommodate the physical needs of taller patients, while maintaining the easy of frequent bed movement about space confined healthcare facilities, Carroll Hospital Group offers an optional "Easy Bed" extension system that allows for easy and rapid extension/retraction of the mattress deck by 4 inches (102 mm) from 80" (2032 mm) to 84" (2134 mm). No tools are required to perform bed "Easy Bed" extension/retraction operations. If your Spirit™ bed has been equipped with the optional "Easy Bed Extension" system, the bed will be outfitted with two clamping knobs and an extendable foot deck section as shown below.



Clamping Knobs (viewed from foot end of bed)



Extendable Foot Deck Section

## BED EXTENSION PROCEDURE



1. Elevate bed to comfortable working height  
Unclamp the footboard bracket slide mechanism by turning both knobs counter-clockwise until they come to stop on their retention brackets.



3. Clamp the footboard bracket slide mechanism by turning both retention knobs clockwise until hand tight.

**IMPORTANT:** Ensure that the clamping knob fastener extends through the retention hole located in the footboard bracket channel. Typical both sides.



2. Grasp footboard bracket by the corners as shown above. Gently and smoothly pull away from the head of the bed until the footboard bracket slide mechanism contacts its mechanical stops.



4. Unlock foot deck extension pan by grasping the chrome handle and sliding the locking mechanism towards the patient left side of the bed to the unlocked position (green, unlocked icon)





5. Grasp the chrome handle as shown at right. Gently and smoothly pull away from the head end of the bed until the foot deck extension pan contacts its mechanical stops.



6. Lock foot deck extension pan by grasping the chrome handle and sliding the locking mechanism towards the patient right side of the bed to the locked position (red, locked icon).

## WARNING



Possible **PATIENT ENTRAPMENT Hazard** could occur if the mattress is not securely located and retained on the mattress deck by the four corner mattress keepers. **NEVER** perform a bed extension/retraction with a patient on the bed. **NEVER** place a patient on the bed if the mattress is not properly located and retained on the mattress deck by the four corner mattress keepers.

## CAUTION



Possible **UNEXPECTED MOTION** could occur if the slide lock is not in the "lock" position and the mattress deck is articulated from the horizontal position. When the bed is in either the extended or retracted position, the clamping knob fasteners **MUST** be fully engaged and the slide lock **MUST** be in the "lock" position prior to placing a patient on the bed and/or allowing a patient to return to the bed.

## NOTE:

Bed retraction procedure is the same as the above except that the footboard bracket and the foot deck extension pan are pushed towards the head end of the bed until contact is made with their respective mechanical stops.

## SPIRIT™ BED TROUBLESHOOTING GUIDE

**\* NOTICE:** Perform a brief function test on the bed. Check all functions on both the staff control pads and the patient control pads.

<b>PROBLEM / FAILURE</b>	<b>RECOMMENDED ACTION</b>
No functions working on the bed	<ol style="list-style-type: none"> <li>1. Check to ensure bed is plugged in</li> <li>2. Check wall outlet for power.</li> <li>3. Check mains cable for any damage.</li> </ol>
Patients control pad working properly, Footboard staff control pad not working	<p>Check cable connection under lower left side of footboard.</p> <p>Lift up footboard and check connection is not damaged.</p>
Footboard staff control pad is working properly, but quad-rail control pad not working	<p>Check lockout buttons on footboard pad; orange light on "lock" button prevents the patient control from being used.</p>
Bed will not lower all the way	<ol style="list-style-type: none"> <li>1. Check to see if the "Bed " Up/Down function is locked out on the footboard</li> <li>2. Check to see if the bed is in Trendelenburg or Reverse Trendelenburg angle. For patient safety bed maintains whatever angle is established by staff as the bed is raised and lowered - if the bed is in Trend/Reverse Trend it will not lower past its Trendelenburg limit of 15" deck height. If the bed is angled, level bed by pressing opposite 'Trend' function – bed will automatically stop at level position.</li> </ol> <p>Hint: A slight Trendelenburg or Reverse Trendelenburg angle may not be easily visible. If the bed appears 'stuck' at approximately 15", briefly press and hold the 'Trend' button to achieve a slight bed angle, then hold the 'rev Trend' button until the bed automatically stops at level. Then lower the bed.</p>
Bed "up" "down" Function not working	<p>To reset spirit ultra-low bed</p> <ol style="list-style-type: none"> <li>1. Make sure that the bed is plugged in and switched on</li> <li>2. Check that there are no lock-out lights showing on the footboard control panel</li> <li>3. On the side rail control press the "BED DOWN" button and keep pressing for about 30 seconds or as long as it takes for the bed to go down to it's lowest position</li> <li>4. When the bed has gone down to it's lowest position keep pressing for a further 30 seconds</li> <li>5. The bed should now work normally</li> </ol>

## INFECTION CONTROL

Spirit Ultra Low Bed quad side rails, headboard and footboard, have been treated to kill bacteria that come in contact with these bed surfaces. This treatment lasts throughout the life of the bed and is effective against numerous bacteria, including MRSA and e-coli. In addition, the detachable mattress deck provides easy and thorough cleaning of the entire surface, while the fiber-composite material reduces moisture build-up.

## CLEANING ADVICE

- The SPIRT™ bed is manufactured to IPX4 : this is “moderate resistance to ingress of liquids and dust”.
- The bed can be washed in a low-pressure spray booth.
- All normal hospital cleaners can be used e.g. 1/10,000 chlorine
- DO NOT USE PHENOL - BASED CLEANERS
- ALWAYS DISCONNECT THE POWER BEFORE CLEANING

If you require any further advice please call Montcalm International on 01865 409926.

## SPECIFICATIONS

- Sleep surface deck length 80" (2030mm)
- Sleep surface deck to floor - high position 34" (865mm)
- Sleep surface deck to floor - low position 8.25" (200mm)
- Overall sleep surface width (with mattress 36" (915mm)
- Overall sleep surface width (without mattress) 35.5" (900mm)
- Recommended weight capacity 35 stone / 227kgs
- Recommended mattress thickness 6" (152mm)
- Recommended mattress size 900mm x 2032mm
- Overall length 93.5" (2375mm)
- Overall width (with quad rails) 40" (1020mm)

## FEATURES

### LOW BED HEIGHT

- Prevents patient falls and related injuries
- Help risk-free manual handling

### DETACHABLE MATTRESS DECK

- Fibre composite deck completely detaches for thorough sanitization
- Standard 5-year warranty

### FOOTBOARD STAFF CONTROL PANEL

- 15-function panel is located on the footboard for staff access
- Includes lockout buttons for each and all-patient controls
- Total bed lockout feature
- Includes Trendelenburg, Reverse Trendelenburg, Chair Positioning, CPR, and Auto Contour functions
- Head section and bed frame angle - monitor

### MOULDED QUAD RAILS

- Pass all new FDA guidelines for bedrail entrapment IEC 60601-2-52
- Provide assistance, freedom and protection for patients

### SAFETY FEATURES

- Ultra low height of 8.25"/200mm prevents patient falls
- Passes all new 2006 FDA Bedrail Entrapment Guidelines
- Easy-access to Central Lock-and-Steer pedal at head-end and foot-end
- Patient control positioning
- One-button chair positioning
- Secure caster locking system
- Detachable mattress deck facilitates infection control
- Built-in emergency battery back-up systems
- Battery monitor
- Instant CPR release button
- Total bed lock-out feature
- Bed Exit Alarm system (optional)
- Removable headboard and footboard
- Easy-to-read angle indicators for degree of Head & Trendelenburg
- Ergonomically designed quad rails
- SPIRIT™ can be used with a wide range of mattresses and therapeutic support surfaces to meet the specific needs of your patient. (see recommended mattress dimensions above)

### CENTRAL LOCK-AND-STEER SYSTEM

- Colour coded foot pedal has three functions: complete caster lockout, neutral/total swivel and steer mode (for single attendant bed transport).

### BED EXIT ALARMS (OPTIONAL)

- Alarm sounds in-patients room when patient gets out of bed

### PATIENT CONTROLS AND LOCK-OUT

- Can add optional 6-function electric Hand Pendant
- Patient access can be locked-out from (each or all) patient controls

- Bed can be extended by 4" / 100mm

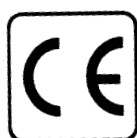
# The SPIRIT™ Ultra Low Bed

## USER MANUAL



## GUIDANCE NOTES FOR SAFE USE

CE CLASS 1 MEDICAL DEVICE



T 01865 409926  
F 01865 409948

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[www.montcalmcare.co.uk](http://www.montcalmcare.co.uk)

