



Soprano Bariatric Profiling Bed

UBEB8001

User Manual

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1. Introduction

This User Manual contains instructions for the installation, use and maintenance of the Soprano Bariatric bed.

The bed described in this User Manual is constructed to the following standards:

- EN 60601-2-52:2010

This operating manual will familiarise you with the functions of the bed and in addition describes:

- How to set up the bed
- How to operate the adjustment controls
- How to look after and maintain the bed



Caution: Ultimate Healthcare shall not be liable for any damage or injury caused by failure to follow the proper instructions as described in this User Manual.



Caution: Before using the bed all staff must familiarise themselves thoroughly with the various parts and controls as detailed in this User Manual.

This User Manual has been drawn up using information available at the time of printing with regard to the design and operation of the bed.

We reserve the right to make changes due to technical improvements.

If you have any questions regarding the bed, please contact Ultimate Healthcare (contact details are provided on back cover).

Note: Ultimate Healthcare reserves the right to modify the information in this User Manual at any time. The information in this User Manual may vary slightly with respect to the basic design of the product.

2. Intended Use

The bed is intended to support patients using the moveable sections as and if required within the following environments;

- Nursing home
- Home (ground floor recommended)

This bed must not be used for any other purpose than that which it is intended, for example it must not be used as a standing platform. It is for indoor use only.

The bed is compliant to BS EN 60601-2-52:2010+A1:2015 and not suitable for children and adults with an atypical anatomy (physical size less than 146 cm, mass less than 40kg or a body mass index of less than 17). A review and individual risk assessment must be completed for all end users and on atypical anatomy as priority by putting measures to reduce any entrapment risks.

Before using the bed and any accessories in combination, a risk assessment should be performed. Please refer to 'Example of risk assessment in section 22' of this manual. This should include but should not be limited to:

- The risk of trapping or pinching
- Unintended operation of the bed
- Any limitation of the patient's ability to operate the bed

Thoroughly read the entire User Manual prior to setting up and using the bed. The bed should only be the should only be operated by trained individuals

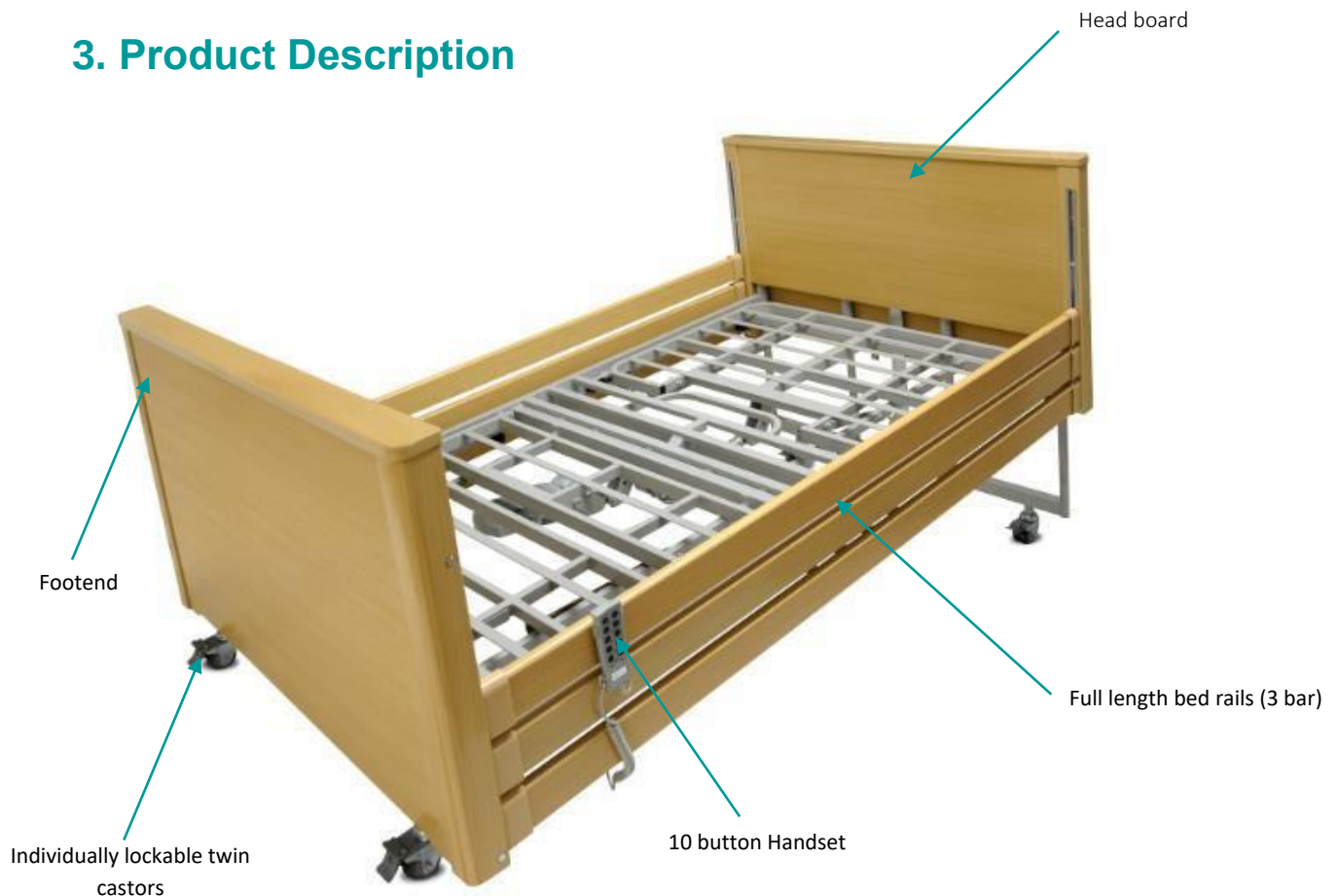
Ensure that:

- The entire User Manual is read by all persons entrusted with the setting up, operation or maintenance of the bed.
- All persons entrusted with the setting up, operation or maintenance of the bed have access to this User Manual at all times.

Any damage resulting from non-observance of this User Manual is excluded from the warranty.

The illustrations contained in this User Manual show examples of how to handle the Ultimate Healthcare beds and may differ from your particular model.

3. Product Description



Note: The above illustration is for reference purposes only. The specification of your actual Soprano Bariatric bed may vary to the above illustration.

- 4-section electric profiling with variable height control and adjustment
- Active auto-regression profiling reduces shear and friction in sacral area
- Integral bed extension of 15cm
- Reverse Trendelenburg - variable tilt positioning
- Handset control features a fob lockout
- Maximum user weight 350kg (55 stone) – Safe working load 385kg (60 Stone)



Note: Fitting of accessories must be made in conjunction with the User Instructions supplied with the accessory.



Note: The fitting of accessories may present additional risks to Users and suitable precautions should be taken. Always risk assess the bed when adding accessories.

4. Symbols and Statements

This User Manual contains the following symbols which are used to show you specific risks when dealing with the product or information on how to simplify handling.



Caution: This symbol indicates the need for the user to consult the instructions for use for important cautionary information such as warnings and precautions that cannot, for a variety of reasons, be presented on the medical device itself.

Symbols used in this manual and on the Soprano Bariatric bed:



B symbol, indicates this product is according to degree of protection against electric shock for type B equipment.



Caution, read the instructions before use.

IP24

Protection type against water ingress



Disposal of electrical and electronic equipment (WEEE): This product should be handed over to an applicable collection point for the recycling of electrical and electronic equipment.



CE certification in accordance with 93/42/EEC.



Protection class II (Protective insulation).

Note: Maximum continuous operation of the actuator motors is 2 minutes at maximum load; it must then be followed by a period of rest for 18 minutes, before being activated again.

5. Safe Use Guidelines

The bed is fitted with a locking handset; which is achieved via a locking fob; functions may be locked out.



Caution: When using any equipment that extends under the bed, such as a Mobile Hoist, ensure there is no risk of entrapment, pinching of cables or risk of damage to motors or actuators when the bed is moved to its lowest settings.



Caution: Although this bed has been designed to be used with the common types of portable hoists care should be exercised when using this bed with all portable hoists. The user must ensure that sufficient clearance is afforded to all hoist legs, masts and booms and that cables of the bed and hoist are not trapped, snagged, kinked or pinched when operating the bed or the hoist.

5.1 Safety information – nursing personnel, care givers and users



Caution: Risk of Accidents!

- Do not use electrical medical appliances on patients in these beds involving intravascular or intra-cardiac connection.
- Do not use the bed in the vicinity of strong electromagnetic fields.
- Always plug the bed mains plug into a separate wall socket. Do not use a multi-plug adaptor.
- Route the mains cable to the wall socket in such a way that there is no mechanical tension, and the mains cable cannot be pinched, kinked or run over.
- When routing cables from other equipment within the bed, precautions should be taken to avoid squeezing those parts of the bed.
- Please observe the respective equipment operating and assembly instructions with regard to any additional safety risks that may arise when using the bed in conjunction with other equipment. If you have any questions, please contact Ultimate Healthcare (see details on the back cover).
- Always risk assess the beds including accessories to medical, environment conditions of the end user



Warning: Danger to life and risk of injury due to trapping/pinching!

- When carrying out adjustments, watch the occupant in the bed and the bed's surroundings. **Ensure no visitor or non-service user is on the bed.**
- Ensure that underweight/very thin patients cannot slip down between the mattress and side rails.
- Ensure that the side rails are properly locked in place.
- When lowering the bed, make sure that there are no obstructions under the bed; pay particular attention to the feet of the person operating the bed and those of any other person in attendance.
- **IMPORTANT** - Always perform a risk assessment of the bed, mattress and accessories to avoid entrapment, refer to section 11 (Accessories) on page 19.



Warning: Possible danger to life due to alteration of the patient's position

- Always lock (disable) all handset adjustment functions which could cause danger to the patient's health if adjusted (consult doctor).
- Always take account of the patient's condition when locking (disabling) the adjustment options.



Warning: Accident hazard due to falling out of the bed!

- The bed should always be left in its lowest position when the patient is unsupervised the bed can be adjusted to a suitable height for the patient to get in or out of the bed in order to reduce the risk of injury due to falls.



Caution: Risk of short circuit and fire

- Before moving the bed, disconnect the mains plug and secure the mains cable from being run over.
- Do not use the bed in surroundings in which flammable gases or vapors (e.g. from anaesthetics) may be present.



Caution: Danger due to actuator motor overheating!

- Before adjusting the bed height, ensure that nothing is blocking the full adjustment movement.
- Avoid operating the actuator motors continuously for more than two minutes.
- Maximum continuous operation of the actuator motors is 2 minutes; the minimum pause after 2 minutes operation is 18 minutes.
- Never use more than two actuator motors simultaneously.
- Ensure there is nothing preventing the actuator from working correctly, a mattress incorrectly secured to the bed frame can prevent the backrest or knee break from functioning correctly and causing damage to the patient or the Bed.

5.2 Safety information – bed assembly



Warning: Risk of Injury due to incorrect assembly!

- Ensure that all bed components are correctly assembled.
- Check that all adjustment options are in perfect working order after assembly,



Caution: Risk of Accidents!

- Only perform assembly work using suitable tools.
- Only perform the work described if you are familiar with handling the required tools.

5.3 Safety information – maintenance and inspection

Only allow maintenance and inspection work to be carried out by or under the supervision and guidance of trained expert personnel who, on the basis of their specialist training, knowledge and experience - in addition to knowledge of all the relevant regulations - are capable of evaluating the condition of the bed and of recognising any possible effects and hazards.

Always read the relevant chapters of this User Manual thoroughly before carrying out maintenance and inspection work.

Any damage resulting from non-observance of this User Manual is excluded from any liability of the manufacturer.



Caution

- Always carry out a function test following maintenance work and inspections.
- When operating the actuator motors, ensure that the bed cabling cannot be pinched, overstretched or kinked.



Caution: Hazards due to electrical and mechanical faults!

- Immediately remove faulty/defective beds from operation and secure them against unauthorised use. Disconnect the mains plug from the wall socket.
- Only use original spare parts from Ultimate Healthcare.
- Always carry out the prescribed maintenance and inspection work at the specified intervals, see *Section 16 Maintenance and Inspection*.
- Do not carry out any alterations to the electrical or mechanical fittings supplied with the bed unless authorised to do so by the manufacturer. Unauthorised alterations lead to any liability of the manufacturer becoming null and void.
- Only perform maintenance and inspection work using suitable tools.
- Do not open electrical components.

6. Environmental Conditions

	Min	Max
Operating temperature range	10°C	40°C
Relative Humidity (RH)	10%	60%
Altitude range (above mean sea level)	0m	3,000m

The IP (liquid and dust ingress) rating for the control module on the Soprano bed is IPX4. The Soprano bed are designed for medical purposes only. Electrical installations must comply with your local electrical installation requirements.

7. Installation and Set-Up

Remove packaging; all cardboard is recyclable; carefully dispose of all plastic packaging to avoid risk of suffocation; recycle plastics where facilities exist.



Caution: Read these instructions carefully before attempting to assemble the bed.

- The bed is supplied disassembled.
- The installation must be carried out by a minimum of two persons.

Packaging units:

Box 1: Back rest section of mattress platform complete with actuator, side rail end caps and mattress platform connecting bars.

Box 2: Leg rest section of mattress platform complete with actuator, main electrical control unit and hand control unit.

Box 3: Headboard Bed end (shorter connecting bars) with a Hi-Lo actuator.

Box 4: Footboard Bed end (longer connecting bars for extending purposes) with a Hi-Lo actuator.

Box 5: Six wood effect aluminum bars to form the bed side rails.

7.1 Assembling the bed

Mounting instructions:

- The assembly of the bed must be carried out by a minimum of two persons;



Figure 1: connecting the mattress platforms



Figure 2: Blue dots and location holes

1. Use the bars provided to connect the mattress platforms together (**figure 1**) ensuring the end of each bar with the blue dot is inserted first into the frame with the matching blue dots. Also note the location holes for the hand screws need to be on the bottom of the connector bars (**figure 2**) as shown in the photo above right
2. Once the two halves of the frame are fully pushed together, hand tighten all the hand screws.

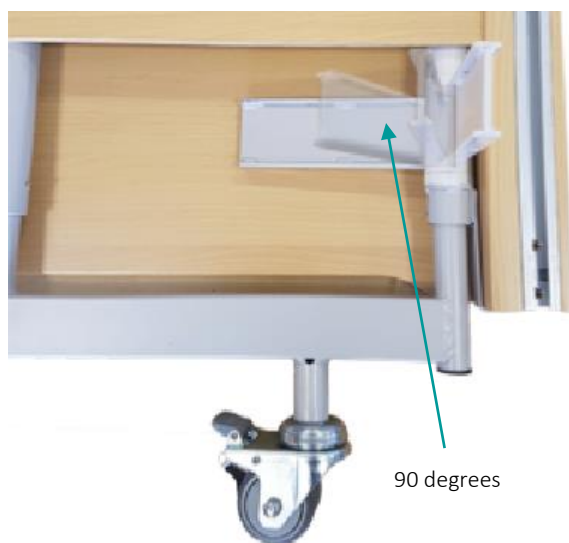


Figure 3: Connecting bars being pulled out to 90 degrees

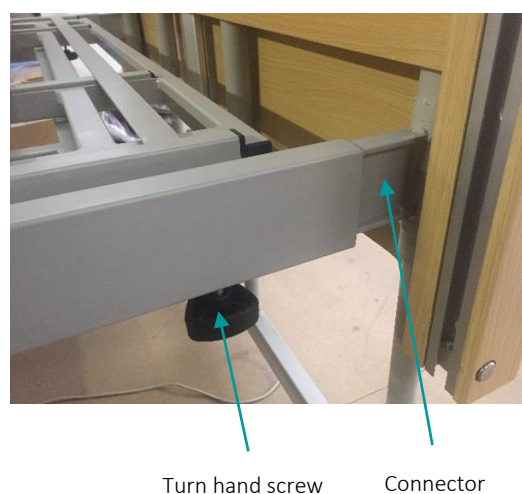


Figure 4: Footboard and platform connected

3. Unscrew the 4 hand screws on both ends of the frame.
4. Swing the connecting bars outward to 90 degrees (**figure 3**).
5. Align the footboard which has the longer connector bars with the footend of the mattress platform and push the two parts together (**figure 4**)
6. Tighten all the turn hand screws
7. Repeat actions 3 to 5 on the opposite side

7.2 Setting up actuators

All actuators on the bed are colour coded.

1. The back rest actuator has **red stickers** that should be matched up with the corresponding red stickers on the mounting points on the underside of the bed frame. (*figure 5*)
2. Equally, the **green stickers** on the foot rest actuator should be matched up with the green stickers on the mounting points (*figure 6*)
3. The main control box comes already attached to the back rest actuator with all the cables colour coded. Ensure the correct connector is attached to the matching actuator.
4. The hi-lo actuators on the head and foot boards should be connected using the **yellow stickered** connectors (*figure 7*)
5. Plug the mains plug into the wall socket and make sure all of the cables are secured.
6. Test the actuators by pressing each button on the handset control.



Figure 5: Red labelled actuator



Figure 6: Green labelled actuator



Figure 7: Yellow labelled actuator



Caution: Always make sure that the electric plugs are then properly inserted into the controller for the bed to function correctly.



Caution: Pay attention to position the back and foot rest actuators correctly! They should never be inverted.



Caution: If when operating the handset the functions operate incorrectly it may be that the cables are located in the wrong actuators. In this case the cables will have to be inserted into the correct actuator points and tested again to make sure the handset operates the correct parts of the bedframe.

8. Operations

8.1 Before using the bed

- The wheels of the bed are locked:

How to lock the brake: Press the lower lever down with your foot until the upper lever snaps up.

How to unlock the brake: Press the upper lever with your foot until the lower lever clicks.

During the installation of the bed you must take the requirements into consideration to minimize potential fire hazards due to external influences. Inform the user and the personnel of these points.

Lower Lever



- The power supply is compatible with the bed (230 Volt, 50 Hertz).
- The power cable is plugged in and placed in such a way that it cannot be damaged.
- The power cable, the motor cables and the hand control cable are not damaged by any moving parts of the nursing bed.
- There are no obstacles in the way such as bedsides or chairs.
- All control functions have been accurately inspected and are working properly.
- A risk assessment has been undertaken for the end user. Please refer to 'Example of risk assessment' in section 22 of this manual.
- Only after having carried out the above operations it will be possible to start using the bed.

8.2 Requirements of onsite installation

- Ensure there is enough space to allow the whole range of adjustments of the bed. There should not be any furniture or other objects close to the bed such as window sills.
- If the bed is to be used on parquet floor, make sure that the use of wheels will not cause any discolouring due to the parquet waterproof treatment. It is possible to use the bed on tiles, carpets, laminated floors and linoleum.
- A 230 volt power outlet, correctly installed, must be located as near as possible to the bed.
- If there is the need to use other accessories (such as compressor systems etc.), make sure they are correctly fixed and that they work correctly. In particular, make sure all different cables are safely connected. In case of questions or doubts please contact the manufacturer of such accessories

During the installation of the bed you must take the requirements into consideration to minimize potential fire hazards due to external influences. Inform the user and the personnel of these points.

8.3 Moving the bed

Before moving the bed, ensure that a risk assessment is completed for the end user. Please refer to 'Example of risk assessment in section 22' of this manual.

To move the bed:

- Disconnect from the mains supply.
- Release all 4 castor brakes, these are foot only operated.
- Move the bed to the desired location.
- Taking care not to run any cables over.
- Re-apply the castor brakes.
- Check there are no obstructions near the bed.
- Check the cabling is not pinched or kinked anywhere.
- Re-connect the bed to the mains supply.



Caution: *The bed is only to be moved within the patient room for cleaning or patient access.*



Caution: *The patient must not be in situ on the bed whilst it is being moved.*



Caution: *Ensure there is no risk of injury to any person involved in moving the bed and ensure there is no risk of damage to the bed. Always re assess the risk for the end user for the bed usage with any accessories attached.*

9. Extending the bed

9.1 To extend the bed frame

The bed can be extended by 150mm. Adjustment is made at the foot end of the bed.

1. Ensure bed frame moving parts are all flat
2. Apply brakes to head end castors
3. Loosen the 2 turn hand screws at the foot end of the bed.
4. Unlock the foot end castors
5. Pull the bed end out until it reaches the end, clicks and stops.
6. Re-tighten all the turn hand screws.



9.2 To extend the bed platform

1. Pull the 'twist and pull locking pins' out on the platform section.
2. Slide the platform extension out until the 'twist and pull locking pins' click
3. Reapply brakes.



Caution: Always Risk assess when the bed configuration is changed.

10. Handset Control

Handset Controls are supplied with 10 buttons.



Caution: Ensure that no person, limbs or objects in any way interfere with the desired movement of the bed.

The electric functions of the bed are activated by the patient and by the user with a hand control.

- The electric motors work if the corresponding buttons are pressed.
- It is possible to adjust different sections in both directions.
- The hand control can be attached to the bed where needed with a hook.
- The spiral cable allows freedom of movement.

10.1 Hand control use



Backrest adjustment

Press this button to change the angle of the backrest.



Height adjustment of the mattress base

Press this button to change the height of the mattress base. When the height is adjusted there is an automatic horizontal positioning of the mattress base in the highest and/or lower position.



Leg support adjustment

Press this button to change the angle of the leg support.



Backrest and leg support combined adjustment (Auto-Contour)

Press this button to change the angle of the backrest and the angle of the leg support simultaneously.



Angle adjustment of feet – head section (Trendelenburg Tilt)

Press this button to lower the foot or head section independently. When the height is adjusted there is an automatic horizontal adjustment of the mattress base if lowered at the feet in the highest position and/or in the lowest one.

Before lowering the section you need to release the brake of the two wheels on the head or foot panel side, to avoid possible damages to the floor.

11. Accessories

1. In-line Grab Rail

1. Unscrew the thumb wheels
2. Attach the grab rail to the bed.
3. Angle the top of the rail forward over the bed and slide the top of the securing clip over the side of the bed platform.
4. Straighten the grab rail to allow the bottom of the clip to slide under the bed platform.
5. The grab rail may be fitted to either end of the bed.
6. Ensure that the Grab rail is less than 60mm or more than 318mm from the bed end.
7. Tighten the thumb wheels.
8. If using the In-line grab rail in conjunction with side rails ensure a full risk assessment has been undertaken as this may generate entrapment risks. Please refer to 'Example of risk assessment in section 23' of this manual. Using the In-line Grab rail in conjunction with side rails must be agreed with a clinician and risk assessed for the end user.

1. Daily Maintenance / Inspection of In-line Grab Rail

- The daily maintenance work can be performed by the nursing personnel or carer:
- Check the gap between the bed ends and the grab rail are less than 60mm or greater than 318mm and safe for the end user after the risk assessment completed for the beds, mattresses and any accessories to avoid entrapment.
- Check the thumb wheel fastenings are secure.



Caution! Risk of entrapment

11.2 Attaching Full Length & Extended Side Rails to the bed

Fitting

- The easiest way is to raise the bed to its highest position.
- Insert each bed rail into the end caps provided and insert the end cap guides into the runners on the head and foot board.
- Make sure to lift one rail at a time ensuring both ends are level before moving on to the next rail.
- You may have to press in the bottom button in order to fit the bottom bed rail.
- Once all rails have been fitted and are above the bottom button lift up the top bed rail until it automatically fits into the highest position on both ends above the top button. You should not be able to move the top rail upwards or downwards.
- Check that the other bed rails are properly inserted by pressing from the top of each bed rail. You should not be able to move them downwards.

Lowering

- Lift the top bed rail slightly.
- Press the upper button and lower bed rail slowly to its lower position.

11.2.1 Daily Checks on Side Rails

- The daily maintenance work can be performed by the nursing personnel or carer
- Check the bed rails (option) for easy movement and damage.
- Check the correct function of the locking device on the bed rails.
- Check the side rail is fitted according to the labels on the bed and the side rails.
- Check the thumb wheel fastenings are secure.
- When raising and lowering side rails ensure all potential restrictions i.e. bumpers and bed covers are removed.
- When raising the rail to its full "in use" height listen for an audible "click".
- Ensure that rail is correctly secured in the "in use" position by applying moderate downward force, if there is excessive movement when raised to the maximum position, do not use the rail and report the fault immediately to your supplier.
- Always risk assess for entrapment due to changes in physical and environmental condition of the end user or on position of the bed, mattresses and any accessories attached/moved/removed away from the bed.

11.3 Mesh full length side rail bumper and extension bumper

- Remove the bed rail bumpers from the pack and dispose of the packaging safely.
- Lay the bumper over the secured rail and locate the velcro.
- Join the velcro along the underside of the bottom rail.
- Ensure that the side rail bumper is securely fixed and leaves no exposed rail before use.
- Periodically check to ensure that the bumper is securely attached to the bed rail to avoid any entrapment.
- If using extended rails, repeat the above instructions, ensuring the extension piece is placed at the foot end of the bed.
- Always risk assess for entrapment due to changes in physical and environmental condition of the end user or on position of the bed, mattresses and any accessories attached/moved/removed away from the bed.

12. Selecting a Mattress

Ensure the selection of an appropriate mattress depending on whether the bed is set to standard or extended mode. Having placed the mattress on the bed a risk assessment should be performed to identify potential entrapment risks for the user. Please refer to 'Example of risk assessment in section 22' of this manual.



Warning: if using side rails, the distance from the top of the uncompressed mattress to the top of the side rail should be more than 220mm.

13. Transport and Storage

13.1 Disconnecting the controller

1. Ensure castor brakes are engaged – these are foot operated only.
2. Ensure the mains lead is disconnected before starting to dismantle the bed for transport or storage.
3. Remove the mattress.
4. Remove the connectors from the controller.

13.2 Dismantling the bed

1. Remove any accessories attached to the bed.
2. If the bed has been extended; return it to the standard length.
3. Apply the castor brakes; this is a foot only operation.
4. Remove the mattress retaining clips.
5. Release the hand screws; if removed store carefully for re-use.
6. Release the castor brakes on one end of the bed only.
7. Carefully slide the two halves of the bed apart and rest them on the floor.
8. Apply the castor brakes; these are foot only operated brakes.
9. Release the hand screws that secures the mattress platform to the head and foot board ; if removed store carefully for re-use.
10. Carefully slide the mattress platform off of the connector; taking care not to allow the head and footboard to fall to the floor.
11. Place all parts into the cardboard packaging if retained.

13.3 Storing the bed

When not in use this bed must be stored in a dry, clean environment. We recommend that storage temperatures are between -50C ~ 40C and that % Relative Humidity (RH) is between 10-60%

14. Cleaning and Disinfection



Disconnect the bed from the electricity supply before carrying out decontamination procedures.

$$/P\mathfrak{S} \dagger \Omega \Omega^\circ$$

- Please ensure that the power plug is removed from the mains socket prior to attempting any cleaning procedure. This bed is not provided with a mains switch so the mains plug is the only separation from the mains.
- Clean using a damp cloth.
- Only use mild detergents without scouring agents to clean all metal parts and wooden and plastic surfaces.
- Never use sharp edged tools (knives, metal scrapers) or aggressive solvents for cleaning.
- Never use high-pressure cleaners for cleaning.
- Observe the instructions on how to use the detergents in order to avoid damage to the surfaces.
- The bed should be carefully dried after cleaning and before plugging it back in to the mains.

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- Disinfect using a soft cloth.
- Only use normal household disinfectant.
- Do not use harsh, abrasive disinfectant / cleaners.
- Observe the instructions on how to use the disinfectant in order to avoid damage to the surfaces and to protect your health.
- Observe the safety instructions contained in Section 5.

15. Maintenance and Inspection



Hazards due to electrical and mechanical faults!

- Immediately remove faulty/defective medical beds from operation and secure them against unauthorized use (disconnect the mains plug).
- Immediately show any defects to the responsible personnel.
- It is imperative that you always rectify any faults which could influence the function and safety of the nursing bed immediately.

15.1 Maintenance – daily

- The daily maintenance work can be performed by the nursing personnel or carer:
- Lower both bed end actuator motors until they switch off automatically.
- Check the side rails (option) for easy movement and damage.
- Check the correct function of the locking device on the side rails (option).
- All moving parts on this bed are fitted with maintenance-free self-lubricating bearings and should not be oiled or greased.
- Check to ensure that all cables are located safely, not dangling down, and not at risk of being caught in the bed mechanism, by a mobile hoist or any other equipment that may be used under the bed.
- Ensure there is no entrapment risk due to moving or changing of any accessories or end user health condition.

Whenever the bed is moved

- Check the mains cable and plug for damage and kinks.
- Route the mains cable in such a way that it cannot be pinched or rolled over.
- Check to ensure that all cables are located safely, not dangling down, and not at risk of being caught in the bed mechanism, by a mobile hoist or any other equipment that may be used under the bed.
- Always reassess risk of entrapment when bed and or any accessories are moved, changed or if there are any changes in the user's health conditions or environment

16 Trouble Shooting

The table below has been created to assist with resolving faults you may come across; if the instructions here do not resolve the issue or the issue you are experiencing is not listed please contact your supplier or Ultimate Healthcare using the details found on the back cover of this manual.

• No adjustment of the bed can be made when the power is ON	• Handset function is locked.	• Release the handset function using the key
• The function shows orange on the handset.	• The function is locked out.	• Unlock the function if required and try again.
• The handset doesn't function –	• Mains power not connected • Handset not connected to the controller	• Connect to the mains power • Connect the handset to the controller; following the instructions in this manual.
• When a button is pressed on the handset, the corresponding actuator does not respond	• Connectors not plugged into the correct sockets • Faulty actuator	• Check the connections, are as per the instructions in this user guide • Contact your supplier or Ultimate Healthcare using the details on the back cover of this manual
• An unexpected operation occurs when a button is pressed on the handset	• Connectors not plugged into the correct sockets	• Check the connections, as per the instructions in this user guide • Contact your supplier or Ultimate Healthcare using the details on the back cover of this manual

Whenever the bed is moved

- Check the mains cable and plug for damage and kinks.
- Route the mains cable in such a way that it cannot be pinched or rolled over.
- Check to ensure that all cables are located safely, not dangling down, and not at risk of being caught in the bed mechanism, by a mobile hoist or any other equipment that may be used under the bed.

17 Reuse

The Ultimate Healthcare beds are designed for reuse. They must be cleaned and disinfected prior to reuse as per Section 15.

18 Disposal

Beds consist of:

- Metal parts
- Plastic parts
- Electronic components
- Electric cables

Disposal of the individual materials must be carried out in accordance with the valid regional environmental and disposal regulations.

Beds are not to be disposed of with household waste; they must be taken to local waste collection depots.

Electronic components, electric cable and rechargeable are not be disposed of with household waste but taken to the stipulated waste disposal depot and disposed of in accordance with the current local regulations.

Note

If you have any questions regarding disposal please consult your local waste disposal depot or Ultimate Healthcare.

19 Expected Service Life

The expected service life of any medical bed is highly dependent on usage, storage conditions and maintenance regime. Providing that usage is not excessive, that the bed is used and stored in ideal conditions and that the routine maintenance is strictly followed, that any damage is repaired immediately then this bed is expected to have a service life in excess of 5 years.

20 Specifications

20.1 Bed data

Overall length	2180mm
Overall length (extended)	2330mm
Overall width (without side rails)	1360mm
Overall width (with full length side rails)	1360mm
Mattress platform	1980 x 1200mm (2130 x 1200 Extended)
Height range	270 – 680mm
Backrest angle	0-72 ⁰
Knee-break angle	0-33 ⁰
Calf raise angle	0-20 ⁰
Trendelenburg	10.8 ⁰
Reverse Trendelenburg	10.5 ⁰
Safe Working Load (SWL)	385kg / 60 stone
Max patient weight	350kg / 55 stone
Total bed weight	179kg
Individual bed section weights:	Part 1 = 47kg: Back rest section of mattress platform complete with actuator, side rail end caps and mattress platform connecting bars. Part 2 = 47kg: Leg rest section of mattress platform complete with actuator, main electrical control unit and hand control unit. Part 3 = 37kg: Headboard Bed end (shorter connecting bars) with a Hi-Lo actuator. Part 4 = 37kg: Footboard Bed end (longer connecting bars for extending purposes) with a Hi-Lo actuator. Part 5 = 15kg: Six wood effect aluminum bars to form the bed side rails.
Head platform section	46kg
Foot platform section	46kg
Bed ends	36kg

20.2 Electrical data

	Do not dispose of in household waste
	Voltage type - alternating
	Insulation Class II, Type B
	The patient is not separated from the Ground and the chassis
	For indoor use only
100V - 240V	Voltage supply
50/60Hz	Voltage input frequency
2.5A (control pack) 1A (actuators)	Current drawn by device
Intermittent (periodic motor operation)	Maximum continuous operation of the actuator motors is 2 minutes at maximum load; It must then be followed by a period of rest for 18 minutes, before being activated again.
Max 50dB	Sound Level
IPX4 – Control Pack IPX4 –Actuators	Protection type against water ingress

21 Warranty

Ultimate Healthcare is committed to selling high-quality products. However for one reason or another there may be a time when you need to exchange or repair a product. Please make sure you check all items carefully on receipt and follow the manufacturer guidelines. It is recommended you keep a receipt or order number to ensure any warranty claim is handled efficiently.

NOTHING IN THIS WARRANTY AFFECTS YOUR STATUTORY RIGHTS

21.1 Product warranty

- Products sold by Ultimate Healthcare (the "Company") are warranted against faulty materials or workmanship under normal use. The Warranty is usually for one year unless otherwise stated.
- For details of the warranty offered for your Product please call our customer services on **0333 321 8996**

21.2 Conditions of warranty

- Unless otherwise agreed in writing by the Company the Warranty applies to the original registered purchaser of the Product (the "Customer" "you" or "your") and this Warranty only covers defects that occur to the Product during the Warranty Period.
- Defects that occur to the Product during normal usage will, at the sole discretion of the Company, be replaced or repaired free of charge during the Warranty Period [or have parts replaced free of charge], including parts and labour. For the Warranty to be valid the Customer must ensure that:
 - a. the Customer notifies the Company within the Warranty Period of any defect and provides evidence of the date of purchase of the Product, your customer number and the Product Number;
 - b. unless otherwise agreed the Customer permits the Company onto the Customer's premises to carry out any necessary inspection of the Product(s) and/or repairs;
 - c. all inspections and/or repairs are carried out by the Company or the Company's authorised agent;
 - d. the Product has been used for its intended purpose;
 - e. repairs to the Product have not been carried out or attempted by the Customer;
 - f. the Product has not been damaged by change, modification or use of the Product, which in the sole judgement of the Company affects the performance, stability or purpose for which it was manufactured.

21.3 The following are excluded from the warranty:

- Repairs due to breakdown caused by use other than domestic by you or your family, or by deliberate damage or neglect of the Products and (where provided) failure to follow the Product care instructions as provided by the Manufacturer or detailed on the Ultimate Healthcare website.
 - a. cosmetic damage and/or non-functional parts which do not affect the normal use of the Products including but not limited to scratches and rust;
 - b. damage caused by fair wear and tear;
 - c. work which relates to a manufacturer's recall of the Products;
 - d. any loss suffered as a result of not being able to use the Product, or any loss other than the repair or the replacement cost of the Product.

- Before agreeing to replace or repair your Product under this Warranty the Company reserves the right to require that it is returned to the Company.
- The Company regrets that when repairing or replacing your Product under this Warranty the Company must reserve the right to use alternative specifications or materials, which may not match other items in a set.
- The Company reserves the right to charge for the expense of visiting you when no fault has been found with the Product after the Company has inspected it.

21.4 How to make a claim

If you wish to make a claim under the Product Warranty please contact the Company on **0333 321 8996**; e-mail us at: **enquiries@ultimatehealthcare.co.uk** or contact us by post at Ultimate Healthcare, Calmore Industrial Park, Nutsey Lane, Totton, Hampshire, SO40 3JX, giving full details of the defect, your name, address and the date you purchased the Product. You are required to provide proof of the date you purchased the Product.

- The Company will discuss with you whether a repair or replacement will be offered. The option of a repair or replacement is at the Company's sole discretion.
- Where a repair to the Product is agreed the Company will decide at their sole discretion whether the required repair work will be carried out at your premises or at the Company's premises.
- Where the Product is to be repaired at the Company's premises provided you live within mainland United Kingdom, the Company will collect your Product from you and return it to you once it is repaired free of charge.
- Where your Product is to be replaced, provided you live within mainland United Kingdom, the Company will deliver a new Product to you free of charge.
- If you live outside mainland United Kingdom, you will be required to pay a delivery charge for the collection, and/or delivery of your Product.

21.5 General

- This Warranty applies to the original registered purchaser of the Product only and may not be transferred.
- This Warranty will be governed by English Law.

22 Example of risk assessment

This is an example of a basic risk assessment of a bed rail installation for an adult. It should not be adopted or used without adequate consideration of a specific bed occupant's needs and local policies and may need to be preceded by an assessment of whether rails are necessary at all. A separate checklist would be necessary for a child or very small adult user.

The checklist should be used in conjunction with the guidance in this document, together with the judgement of the nurse, therapist, user and carer involved.

Is the bed rail to be used with an adult-sized user (i.e. a patient taller than 1.46m/4'11")?	☐ Yes ☐ No
Has the bed rail been inspected and maintained regularly, if previously used?	☐ Yes ☐ No
Does the manufacturer/supplier provide any information on special considerations or contra-indications?	☐ Yes ☐ No
Do you have enough information from the supplier to be able to select and fit the bed rail appropriately?	☐ Yes ☐ No
Is the bed rail suitable for the intended bed, according to the supplier's instructions?	☐ Yes ☐ No
Do the fittings or mattress allow the bed rail to be fitted to the bed securely, so that there is no excessive movement?	☐ Yes ☐ No
Does the benefit of any special or extra mattress outweigh any increased entrapment risk by the bed rails created by extra compression at the mattress edge?	☐ Yes ☐ No
Does the bed rail height take into account any increased mattress thickness or additional overlay?	☐ Yes ☐ No
Have you made sure that there are no gaps present that could present an entrapment risk to any part of patient's body? • between the bars of the bed rails? 120 mm max • through any gap between the bed rail and side of the mattress? • through the gap between the lower bed rail bar and the mattress platform, allowing for compression of the mattress at its edge?	☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No
Is the headboard to bed rail end gap appropriate?	☐ Yes ☐ No

'Yes' boxes indicate the desired outcome. If any 'No' box has been ticked, there may be a serious risk of entrapment with the proposed combination. Review immediately.

Risk assessments for any entrapment should be carried out before use and then reviewed and recorded after each significant change in the bed occupant's condition, replacement of any part of the equipment combination, change or addition of accessories and regularly during its period of use, according to local policy.

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