

The Company

Founded in 1984, Park House Healthcare Ltd is now recognised as a market leading supplier of specialist pressure relieving and pressure reducing equipment, hospital beds and moving and handling solutions to the NHS, Community and Nursing Home sectors.

Our innovative product portfolio encompasses a range of clinically proven healthcare solutions, which are fully supported by dedicated clinical training, professional product audit and complete maintenance and decontamination services.

Our purpose built state of the art Corporate Headquarters in West Yorkshire is central to our extensive network of service and logistics centres, strategically located throughout the country. 24 hour care, 365 days a year, dedicated professionals manage specific regions and divisions, ensuring one on one service and support is never far away.

With distributors in over 25 countries, Park House Healthcare Ltd is a truly international company and places important emphasis on providing tailored healthcare solutions and the highest level of customer care to our partners throughout the world.

Park House Healthcare Ltd is a respected Member of the British Healthcare Trade Association and has BS EN ISO 9001, ISO 13485 and ISO 14001 accreditations. All products are CE marked in accordance with the European Directive 93/42/EEC.



ISO Certificate No: 8019
CE Certificate No: CA001810

Due to its policy of continued development and improvement, Park House Healthcare Ltd reserves the right to amend any details and specifications without notice.

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RICHMOND ULTRA LOW BED



User Manual



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1. General Safety Instructions

Before putting the bed into operation, it is very important that this User Manual is read carefully. The manual contains important information for safe and proper use of the bed. Keep this manual handy for future reference.

All of the functions of this bed should be fully tested by a competent person before the bed is used.

The bed must not be used if faults have been detected that may injure the patient/user or cause damage to the bed or the surrounding furniture.

The operating persons are obliged to acquaint the patient lying on the bed with the control functions that are designed for use by the patient, and their safe usage.

The operating person is obliged, before using the bed, to be confident of the functionality and safe usage of the bed.

The bed may be used only on even and solid floors.

The bed must never be overloaded. **Maximum working load - 180 kg (28.3 stones).**

If there is a patient on the bed, castors must be locked (with the exception of when travelling with the bed). An unlocked bed poses risk of injury to the patient when leaving the bed or when supporting themselves.

The height of the mattress platform must be adjusted according to the height and condition of the patient.

This is a single patient bed; no other people should sit on the bed.

When handling the moving parts of the bed, ensure that the patient, other people or objects do not become trapped.

Before cleaning or maintaining the bed, the mains power cable must be disconnected from the mains.

The bed should not be used where there is a danger of explosion or in the presence of flammable anaesthetics.

When maintaining and cleaning the bed in the space between the undercarriage and mattress platform, the profiling functions on the handset must be locked to avoid unintentional activation of the mattress platform.

The mains power cable must be stored neatly so it does not get wound around or trapped between the moving parts of the bed. If the mains power cable is damaged there is a serious danger of injury from electrical current.

Inspections should be made at least once a month for visible wear and tear of all moving parts of the bed and cables.

The bed is intended for adults from 12 years of age. Ensure that children only have access to the bed under adequate supervision. Do not allow children underneath the bed at any time.

2. Features

The drivers for the adjustment are electric mechanical linear motors with maintenance free permanent lubrication.

The motors are operated by a handset connected to the main control box via a spiral wound cable.

The motors and handset are isolated from mains voltage (230v) and operated at DC 24v low voltage.

3. Installation

The bed should only be assembled by a suitably competent person. The bed is suitable for installation by one person. When installing more than five beds, two people should be used to complete the installation. They must read and fully understand all of the instructions contained in this user manual. Do not attempt to assemble this bed if you are unsure about any part of the instructions, or if any damage or defect can be identified.

The fuse in the mains plug should not exceed 5 amps.

The bed should be located on a level flat surface. Do not site the bed on loose carpet, rugs or floor coverings.

The cable from the mains power supply plug to the main control unit must be positioned clear of the lift mechanism and braked castor system to eliminate the danger of shearing or crushing the cable.

Ensure that all cable conduits are fully secured.

8 Troubleshooting

Fault	Action
One or more motors not working when handset operated or the handset does not function.	1) No power supply – Plug power cable into mains socket and turn on. 2) Check the handset, motor and main control box connections. 3) Motor or handset defective - Contact Park House Healthcare Ltd.
Motors suddenly have no response or movement.	1) Switch off and unplug the mains cable; plug it back in and switch on. 2) Leave the system in the rest position for approx. 20-30 min and retry. 3) Contact Park House Healthcare Ltd.

WARNING - Any unauthorized modifications, adjustments or alterations will result in warranty invalidation. All repairs must be carried out by a suitably qualified competent engineer.

9. Technical data / spare parts

Overall length:	2145 mm (inc. Head and footboard brackets)	Platform length:	1980 mm
Overall width:	900 mm without side rail 1020 mm with side rails	Platform width:	880 mm
Adjustable platform height:	170 mm (low position) / 710 mm (high position)	Castors:	75mm Diameter
Clearance beneath the bed:	135mm	Central locking at foot end	
Safe working load: 180 kg (28.3 Stone) under normal condition			
Weights:	Head section: 26.8 kg (inc head motor & knee motor)	Foot section:	18.4 kg
	Scissor section: 47.0 kg (inc main motor)	H/F boards	3.2 kg each
	Side rails (Pair): 15.0 kg		
Total bed weight: 95.5 kg (without side rails, mattress or accessories)			
Control Box ref:	CB9160AE4+A0013	Input 230V / 50Hz - 60Hz	Output: 24V DC Max 1.5A
Main motor ref:	31111S+1022502H	Actuator force: Push 6000N	Power: 24Vm Max 4.3
Backrest motor ref:	31250C+2110002F	Actuator force: Push 3500N	Power: 24Vm Max 3.9A
Knee motor ref:	312110+2005002F	Actuator force: Push 4000N	Power: 24Vm Max 3.8A
Adjustment for backrest / Adjustment for thigh rest:	66 deg +/- 2 deg / 13 deg +/- 2 deg	Adjustment for calf rest:	9.5 deg
Handset ref:	HB7X243-00	Motor IP Rating:	All are rated IP66
Battery backup ref:	BA1812+0400+000 24VDC 10A	Power duration:	Max. 10% (2 mins per 18 mins)
Product conforms to IEC 60601-2-52			

Park House Healthcare Ltd reserves the right to make technical changes, specification amendments and product improvements without notice.

As per the Batteries and Accumulators (placing on the market) Regulations, Park House Healthcare Ltd will take back the battery from this equipment free of charge at the end of its life. Our battery producer registration number is BPRN00892.

10. IP 66 – Ingress Protection

The bed offers IP66 ingress protection on all electrical components and controls as standard. This is a high level of protection which is completely dustproof. Any water splashing against the electrical components will have no harmful effects on the electrical operation of the bed.

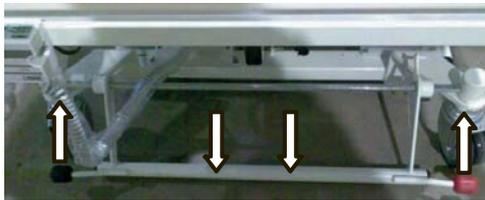
This bed and its components can be both jet and steam cleaned and are suitable for cleaning in a decontamination chamber and tunnel washer. If in any doubt about cleaning methods or materials, please check with Park House Healthcare before cleaning.

WARNING! The bed must be disconnected from the mains supply before any kind of cleaning procedure is undertaken.

Under no circumstances must the bed be moved by pulling or pushing the side rails, headboard or footboard, either when the bed is occupied or empty. The side rails, headboard and footboard are not designed for this purpose.

Never exceed the maximum usage period of 6 minutes per hour, for the electrically driven bed functions, by lengthy and unnecessary profiling or height adjustments. This can trip the thermal safety fuse which will stop the powered movement of all electrically operated bed parts.

Once the bed is sited in the desired position, always ensure that the castors are locked in the braked position.



To LOCK the brakes press the foot bar downwards

To RELEASE the brakes lift the foot bar upwards

Before dismantling or troubleshooting, ensure that all functions are in the lowered position (where possible), the power supply is switched off and the power cable is disconnected from the mains (un-plugged) Ensure that all functions are not under any un-due load and are free moving.

Before operation

Ensure that the assembly is completed fully, and in accordance with the instructions given in this user manual.

Ensure that the electrical mains supply voltage corresponds to that marked on the main control unit label before connecting to the mains supply.

The mains leads MUST be plugged directly into the wall socket. Use of extension leads is not permitted.

Ensure that cables from all motors are connected to the main control unit correctly before operation.

Ensure that all functions of the bed have been tested and that the bed is working normally.

7 Maintenance, care and warranty

To clean the frames use a damp cloth with normal household cleaners or warm soapy water.

Do not use cleaning agents containing abrasives or strong solvents. This will damage the powder coated finish on the metal parts of the bed.

Mechanical or automated cleaning, scouring or the use of high-pressure hoses will damage the bed.

Moving parts of the bed are fitted with self-lubricating bearings; these should not be oiled or greased.

All motors, cables and mechanical functions must be checked for damage and correct operation by a suitably qualified service engineer at least once in every twelve month period.

Extended warranties can be purchased from Park House Healthcare Ltd. For more information contact Customer Services on Tel: 0845 0600 333. In the event of a fault being discovered within the warranty period, the customer should notify the Company at the earliest opportunity. If, upon inspection, the Company accepts liability the equipment will be repaired or replaced at the company's discretion. If the Company does not accept liability it will inform the customer the reasons for rejection and provide the customer with an estimated cost for repair or replacement.

4 Assembly

The bed is supplied with the platform and scissor action fully assembled and cabled up.

Headboard and footboard:

The headboard and footboard fit into the plain holes (fig 4) at the top and bottom ends of the bed.



(fig 4)

Bed Extension:

The bed can be extended at the foot end to accommodate taller patients.

Make sure the brakes are on before extending the bed. Loosen the hand screws securing the Bed Extension then firmly pull the headboard brackets to extend the bed. Retighten the hand screws to fix the Bed Extension in its 'OUT' position. DO NOT pull the extension out any further than the red lines on the extension.



PLEASE NOTE An 'infill' mattress extension piece needs to be used; these can be purchased from Park House Healthcare Ltd, please call 0845 0600 333 for more information.

Linen Tray:

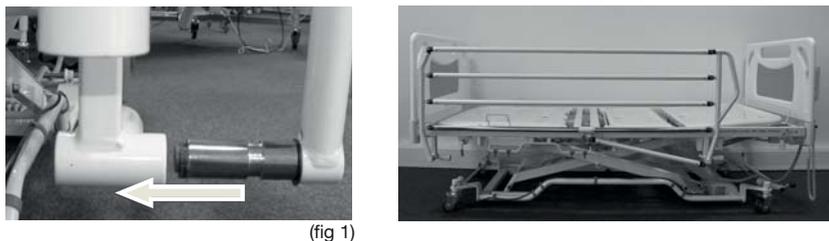
At the foot end of the bed the intergral linen tray can be utilised to store bedding and linen. Pull the linen tray out to store the linen during changing.



Side Rails:

Side rails are integral and should be fitted onto the bed. Locate the sleeves into the cylindrical mounting brackets (fig 1) push in the side rail and tighten all of the hand screws.

IMPORTANT: Once the hand screws have been tightened, ensure that the frame cannot be pulled apart at the headboard end, footboard and centre of the bed.



Raising and lowering the side rails:

To lower the side rail pull the red knob downwards (fig 2), hold in place and push down on the side rail. The side rail should lower in the direction of the footboard. To raise the side rail simply pull upwards towards the head end of the bed until they click into place.



IMPORTANT: Once the hand screws have been tightened, ensure that the frame cannot be pulled apart at the headboard end, footboard end and centre of the bed.

5 Operation of the height adjustment and profiling functions

Nurse Lock Out

The handset should be plugged into the bottom of nurse lock-out box located at the foot end of the bed. (fig 3)

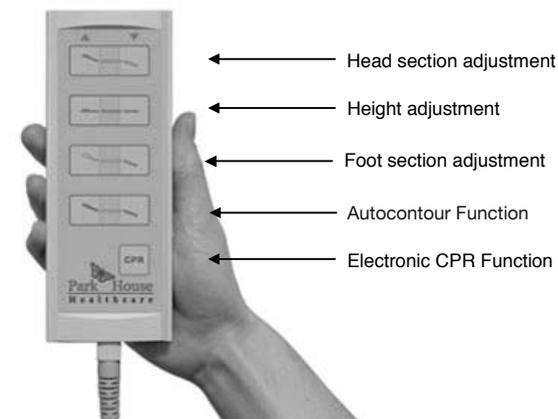
TO LOCK THE HANDSET - turn the knob anti-clockwise to the horizontal position

TO UNLOCK THE HANDSET - turn the knob clockwise to the vertical position



(fig 3)

The head section, knee break, bed height and electronic CPR functions are adjusted by pressing the appropriate button on the handset. For ease of use, the buttons are labelled graphically according to their function. Keep the button pressed, there may be a very small delay before the actuator kicks in.



WARNING - Do not exceed the maximum usage period – all functions maximum of 2 minutes per 18 minutes.

6 Additional safety information

IMPORTANT - In the case of any unusual noises or smells during the operation, switch off the power at the mains and remove the plug immediately. Ensure that no cables are damaged or trapped in the mechanism. If you have any doubts concerning the safe operation of this bed, remove the bed from use and call Park House Healthcare Ltd, Tel: 0845 0600 333 at your earliest convenience.

Any persons assembling or using the bed should read the user manual and familiarise themselves with its operation. Ensure that any objects such as waste bins, occasional tables, chairs etc. are not placed beneath the lifting mechanism of the bed and the head / footboard are not situated beneath a fixed object, i.e. window sills.

To avoid injury during operation, ensure limbs and body parts i.e. fingers, arms, etc. are clear from the moving parts of the bed and the side rails.

Before moving the bed to a different location, disconnect the mains power supply (un-plug). Failure to do so may result in damage to the bed and / or serious or fatal injury.

It is not recommended that the bed is used for transporting patients.