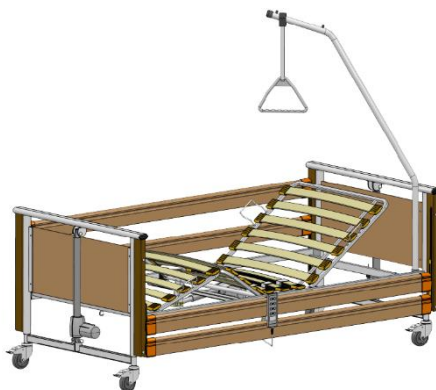


# Instruction for Use

**ELBUR: PB 325, PB 326,  
PB 331, PB 337**



***ELBUR PB 325***



***ELBUR PB 326***



***ELBUR PB 331***



***ELBUR PB 337***





Dear Customer,

Congratulations on having chosen a quality ELBUR Care Bed which will certainly fully meet your expectations. We would like to take this opportunity to thank you for showing such confidence and trust in our company and purchasing one of our products.

Due to designing and manufacturing in accordance to the latest technological development at the time of delivery, our nursing beds, which are used to alleviate and compensate for injuries and disabilities, are very durable and ensure essential performance. They combine modern design and technical accuracy with user-friendly handling, also meet the varying needs of patients and professional caregivers.

Based on great experience of Elbur company, we can guarantee high quality and reliability of our products. We also care about attractive design, as well as matching furniture systems and accessories, which can be chosen depending on the individual needs.

This instruction manual provides important information regarding safe operation for the Operators, Users and Patients. It describes: assembling, care and maintenance of the nursing bed and operating the adjustment functions. It will help you to get familiar with the assembly actions, operation, capabilities and limitations of your bed. Read these instructions carefully and follow them exactly in order to provide reliable service and avoid damage or incorrect operation.

If you have any questions regarding setting up, using, maintaining this product or you would like to receive other customer service information, please do not hesitate to contact your local distributor or if in doubt our company directly.

We always meet customer expectations and we will do our best to fulfil your needs in future.

Team Elbur

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## General information

This instruction for use is part and parcel of the product and must accompany every product sold.

<b>Article name, [number]</b>	<i>Instruction for use of ELBUR: PB 325, PB 326, PB 331, PB 337 [35131]</i>
<b>Document number, version, date of issue</b>	<i>TF-03[6.7.8].5 ver.02, 26.04.2022</i>

All rights reserved - no part of this manual may be reproduced in any form without written permission of the manufacturer.

## Contact details

When assistance is needed regarding setting up, using, maintaining this product or when is necessary to receive other customer service information, please do not hesitate to contact your local distributor or if in doubt our company directly at the following address:



<b>Address</b>	Elbur sp. z o.o. sp.k. Działosza 34 56-500 Syców, POLAND (PL) NIP: 9112035149   REGON: 386426270 BDO: 000467132
<b>Telephone</b>	+48 62 786 97 80 (Secretariat) +48 62 786 97 90 (Sales Department)
<b>E-mail / Website</b>	<a href="mailto:info@elbur.eu">info@elbur.eu</a> / <a href="http://www.elbur.eu">www.elbur.eu</a>

## Design policy

This manual reflects the latest product development. However as our policy is one of continuous improvement, we reserve the right to modify design or introduce technical changes without prior notice or without being imposed to any obligation to adapt or replace similar products previously delivered.

## Safety symbols used

In this Instruction for use, safety information is displayed in the following way:

<b>WARNING</b>	
	<i>Indication of a potentially hazardous situation that, if disregarded could lead to death or injury or could result in damage / failure to the products or something around it.</i>
<b>ATTENTION</b>	
	<i>General information or tips regarding the safe use and helpful courses of action.</i>

It is very important to read all written safety information included in this manual and follow the instructions exactly!


Pictures are used to clarify instructions in this manual. Details of the depicted product may deviate from your product.

## 1.0. Product description

### 1.1. Intended purpose and range of application

ELBUR Care Beds: PB 325, PB 326, PB 331, PB 337 are classified as Medical Devices Class 1 in accordance with the Medical Device Regulation 2017/745 on medical devices. They are developed, manufactured and tested according to the current state of technical knowledge and all relevant safety standards for medically used beds. Most importantly, they ensure basic safety and essential performance, which are provided by the fulfilment of requirements presented in *EN 60601-2-52* standard.

Those products are beds with electrically operated functions, intended to be used in a long-term, continuous care of elderly or infirm, frail and handicapped adult patients. They provide a high degree of lying comfort. Subject to risk assessment, ELBUR Care Beds are used to and may help to maintain, improve, compensate or alleviate for injury, disability, disease and the overall condition of the patient.

<b>WARNING</b>	
	<i>A risk assessment must be carried out before the bed is used by a patient by a clinically qualified person (age, size, condition should be assessed).</i>

ELBUR: PB 325, PB 326, PB 331 and PB 337 may be used in the following application groups according to *EN 60601-2-52*:

- *3 – Long-term care in a medical facility in which medical supervision is required and monitoring is provided if required.* A medical electrical device used in medical procedures can be provided to help maintain or improve the condition of the resident (e.g. retirement and nursing homes, rehabilitation facilities and geriatric institutions).
- *4 – Care in the home.* A medical electrical device is used to alleviate or compensate for injuries, disabilities or illnesses.

ELBUR Care Beds type PB described in this manual are approved by manufacturer for use by patients having a physical size equal to or greater than 146 cm, a mass equal to or greater than 40 kg and a body mass index (BMI) equal to or greater than 17.

It is recommended to use the original ELBUR Mattress Platform Extension for patients taller than 190 cm.





Special dimensions are an essential part of the Elbur production. We enable our customers to have their nursing bed tailored to fit the individually physical requirements of the patient, which allow to achieve everybody the optimal lying comfort while maintaining the same level of functionality.

The ELBUR Nursing Beds described in this manual are not suitable for the patient transport, but they can be moved within the patient's room for cleaning purposes or to allow access to the patient for care activities.



ELBUR Care Beds are designed and manufactured solely as resting place to support one patient with maximum weight of 140 kg. The safe working load of the beds presented in this manual is calculated as specified by *EN 60601-2-52*:

Safe Working Load:	175 kg	200 kg
Maximum Patient Weight:	140 kg	165 kg
Mattress:	20 kg	
Accessories:	15 kg	

### WARNING

	<i>The indicated values of Maximum Patient Weight and Safe Working Load cannot be exceeded.</i>
	<i>Only use suitable Side Rails and Mattress on those beds.</i>
	<i>Only use original accessories and spare parts approved by Elbur.</i>
	<i>ELBUR Care Beds: PB 325, PB 326, PB 331 and PB 337 are not suitable for child patients or for use in hospitals.</i>

### ATTENTION


	<i>Any other used than described above is considered improper and is excluded from a possible liability claim.</i>
	<i>ELBUR Care Beds described in this manual are not licensed for use on the North American market, especially in the United States of America. The distribution and use of ELBUR Care Beds in these markets, including through third parties, is prohibited by the manufacturer.</i>

The ELBUR Care Beds are developed and constructed in such a way that they can function long and safely. If the bed is used and operated properly, the estimated product life is 4-8 years – it all depends on the conditions within and frequency at which is used.

ELBUR Care Beds are appropriate for situations where assistance is required in positioning the patient, or in reducing lifting and manual handling stresses on the carer – it makes the nursing staff work easier. Electric regulation simplifies patients getting into or out of the bed, comfortable setting in chosen position and provides easy access to the patient during hygienic actions given by caregivers.

They are classified as a Class II electrical products and are suitable for indoor use only. The electrical building components comply with safety standard EN 60601-1 for Medical Electrical Equipment.

### ATTENTION

	<i>ELBUR Care Beds have no special connectors for potential equalisation. Please be aware of that before connecting additional medical electrical equipment. The operator of the medical products has to ensure that the combination of the equipment meets the requirements of EN 60601-1 standard.</i>
--	--

The individual ELBUR Care Bed components are made from the best quality materials, which biocompatibility is described in the technical documentation. Our Beds are made predominantly of steel sections coated with a durable polyester-powder coating. All wooden or wood-based parts are protected with an ecologically coating that is low on harmful substances. The indicated surfaces are safe for contact with the skin.



A wide range of wooden finishes and a variety of colours allow for the harmonious integration of each ELBUR Care Bed with any kind of furniture. Also, a wide product range of auxiliary furniture complements the various bed models up to the complete interior design of your home. The combination creates a care and living comfort resulting in perfect harmony.

The Mattress Support Platform consists wooden slats as a base standard, but each model can be also ordered with metal slats as a base. It is divided into four functional sections: Back Rest, Stationary Seat, Upper Leg Rest, Lower Leg Rest.

The various parts of the bed are moved with protective-low voltage by Linak Actuators. Two of them (Main Lift Actuators) are positioned at either end of the bed and control the bed height. Two other Actuators are positioned underneath the Mattress Support Platform and control the Back Rest and the Leg Rest. Each individual position can be controlled adjusted continuously with a touch of a button on the Handset. The Actuators, Handset and Power Cable are connected to a Control Box, which is fixed onto the Back Rest Actuator.

The main difference between beds described in this manual are Bed Ends, which type defines each model. The standard height adjustment is 40 ÷ 80 cm, except ELBUR PB 337, where is 23 ÷ 63 cm.

The other and last differences are values of Safe Working Load and Maximum Patient Weight, which are respectively 200 kg and 165 kg for ELBUR PB 325 where for the rest beds are as follows: 175 kg and 140 kg.

The Mattress Support Platform is exactly the same for all models. The manual adjustment of Leg Rest with two rasmats assembled in that section of the bed is an option for ELBUR PB 325, where it is as a standard for all other ELBUR Care Beds described in this Instruction for Use.

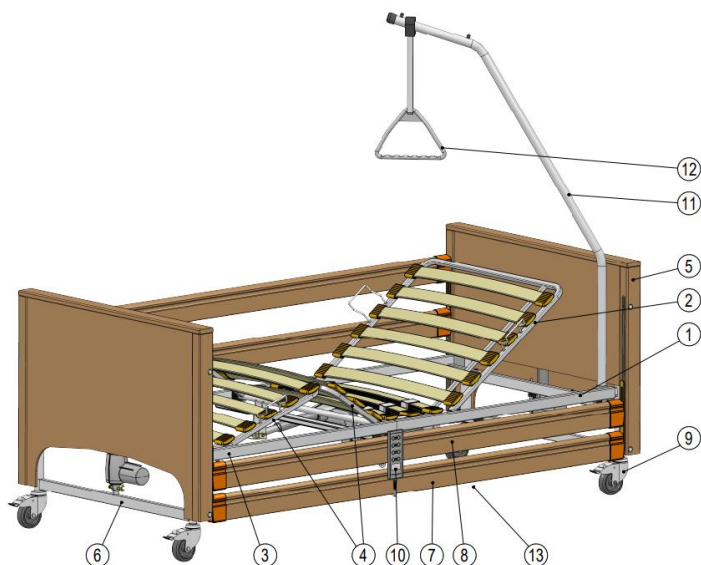
All beds are equipped with Full-length Side Rails and Lifting Pole in the standard configuration. Instead of usually used side rails, ELBUR Care Beds described in this manual can be equipped with Split Side Rails, Folding Side Rails and Metal Full-length Side Rails.

<b>Basic UDI</b>			
<b>ELBUR nursing bed Model</b>	<b>GS1 Company Prefix</b>	<b>Internal Number / Model Ref.</b>	<b>Valid-check character pair</b>
ELBUR PB 325	590426134	ELBURPB325	X7
	590426134ELBURPB325X7		
ELBUR PB 326	590426134	ELBURPB326	X9
	590426134ELBURPB326X9		
ELBUR PB 331	590426134	ELBURPB331	X2
	590426134ELBURPB331X2		
ELBUR PB 337	590426134	ELBURPB337	XE
	590426134ELBURPB337XE		




ELBUR Care Beds are designed to be dismantled into sections for ease of transportation, but they can be easily assembled with a minimum of tools.

No.	Description	No.	Description
1	MSP (Head Section)	2	Back Rest Section
3	MSP (Leg Section)	4	Leg Rest Section
5	Bed End (Head End)*	6	Bed End (Foot End)*
7	Lower Side Rail (with top holes drilling)	8	Upper Side Rail (with bottom holes drilling)
9	Castor with brake pedal lever	10	Handset
11	Lifting Pole	12	Triangle Handle with Strap
13	Drive system (concealed in picture): Control Box with Back Rest Actuator, Leg Rest Actuator		

\*On the picture below is ELBUR PB 331. Only difference with other models are Bed Ends, which are presented in the Chapter 4.0. of this manual.



## 1.2. Technical specification

<b>ATTENTION</b>	
	<i>All indications of dimensions and weights in this manual are approximate (measurement tolerance: <math>\pm 10</math> mm / <math>\pm 0,5</math>kg / <math>\pm 1,5^\circ</math>). All parts and data are subject to a constant further development and therefore may differ from mentioned data.</i>
	<i>The technical details on the next page are only valid for the standard configuration and dimensions and optimal ambient conditions.</i>
	<i>The values are no longer applicable if your Care Bed has been modified, damaged or suffers from severe wear.</i>

TECHNICAL SPECIFICATION						
MODEL:		ELBUR	PB 325	PB 326	PB 331	PB 337
Load [kg]	Maximum Patient Weight	165	140			
	Safe Working Load (SWL)	200	175			
	Lifting Pole	80				
Dimensions [cm]	External [WxL]	102x218	104x216	102x215	102x219	
	Mattress Support Platform (MSP) [WxL]	90x200				
	Under bed clearance (in the lowest position of the MSP)	approx. 24			approx. 8	
Adjustment	Height – Mattress Support Platform [cm]	40 ÷ 80			23 ÷ 63	
	Angle – Back Rest [°]	0 ÷ 70				
	Angle – Upper Leg Rest [°]	0 ÷ 35				
Mattress	Dimensions [Width x Length]	90 x 200 cm				
	Acceptable thickness	15 cm				
	Volume density of foamed material	35 - 50 kg/m³				
Drive system	Control Box	LINAK CB6				
	Lifting Hi-Lo Actuator	LINAK LA27				
	Back Rest / Leg Rest Actuator	LINAK LA27				
	Handset	HL 74 Comfort	HL74 Standard			
	Input voltage*	230V AC, 50Hz				
	Output voltage	24V DC				
	Power input*	Max. 1A				
	Operating time*	Duty cycle: 10%, 2 min / off 18 min				
	Ingress Protection*	IP X4				
	Electrical appliance Class*	II				
	Noise level	Typically < 65 dB (A)				
Weight [kg]	Total	87,0	91,2	101,0	102,6	
	MSP (Head End / Leg End) With wooden slats	17,4 / 16,6				
	Bed End (1)	15,8	17,9	22,8	23,6	
	Side rail (1 lath / set)	2,8 / 11,2				
	Lifting Pole with Triangle Handle	5,3				
	Back Rest / Leg Rest Actuator	1,5 / 1,5				
	Handset / Control Box	0,3 / 1,6				
Operating conditions	Temperature [°C]	+10 ÷ +40				
	Humidity [%]	30 ÷ 75				
Storage conditions	Temperature [°C]	-20 ÷ +50				
	Humidity [%]	30 ÷ 75				

\* Electrical data values visible on the Name Plate of the ELBUR Nursing Bed.

### 1.3. Labelling of ELBUR Care Beds

#### Manufacturer's Name Plate (including serial number\*)

[located on the outside of the Bed End lower section]



\*Please quote SN on all correspondence regarding sales and customer service information or to report unexpected operation.

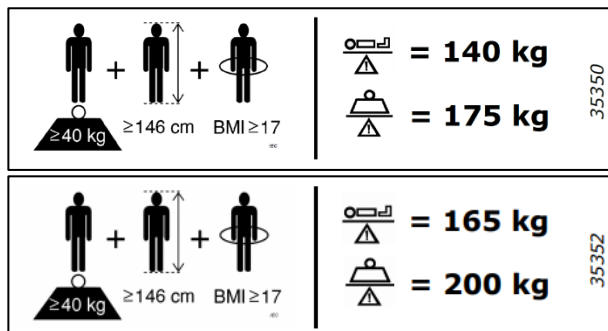
#### Warning / Information label no. 35350

- for ELBUR: PB 326, PB 331, PB 337

#### Warning / Information label no. 35352

- for ELBUR: PB 325

[located on the inside of the MSP Head End frame]

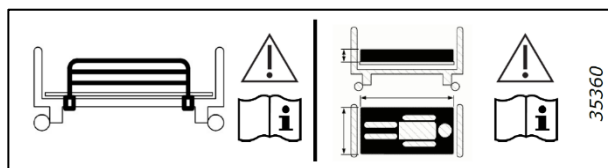


#### Warning

⚠ ELBUR Care Beds are designed for patient having a physical size equal to or more than 146 cm, a mass equal to or more than 40 kg and a body max index (BMI) equal to or more than 17.

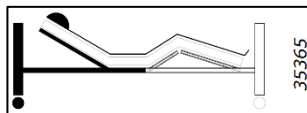
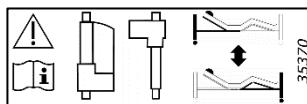
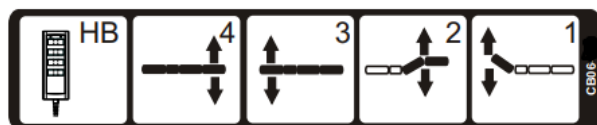
#### Warning / Information label no. 35360





[located on the inside of the MSP Head End frame]



#### Warning

⚠ Incompatible Side Rails and Mattresses can create entrapment hazards.


**Warning / Information label no. 35365**(Mattress Support Platform – Head End Section)*[located on the top of the Back Rest Section]***Warning / Information label no. 35370**(Indication of the appropriate assembly of drive units)*[located underneath the bed]***Warning / Information label no. Linak CB6**(Indication of the appropriate cables connection to Control Box channels)*[located on the CB6 Control Box]***Warning / Information label no. Linak CA40***(if the bed is equipped with this type of the control box)*(Indication of the appropriate cables connection to Control Box channels)*[located inside the CA40 Control Box]***1.4. Explanation of symbols used on labelling**

Symbol	Description
	Catalogue number
	Serial number
	Date of manufacture (month/year)
	Manufacturer

Symbol	Description
	Maximum Patient Weight
	Safe Working Load (SWL)
	Medical Device
	Caution, read instructions before use
	Consult the Instruction for Use
	Temperature limit
	For indoor use only
	Do not dispose of in household or commercial waste. This product must be disposed via the separated municipal waste.
	Class II electrical device, double insulated, degree of protection against electric shock
	Type B applied part according to EN 60601-1 (symbol indicates this product has a degree of protection against electric shock for type B equipment)
	Conformity mark according to the Medical Device Regulation (EU) 2017/745
	Minimum Patient weight = 40 kg; Minimum Patient Height = 146 cm; Minimum Patient BMI = 17.
	Detachable side rail suitability <i>Incompatible Side Rails can create hazards!</i>
	Mattress suitability - <i>Incompatible Mattresses can create hazards!</i>
	Product with a thermofuse
	Safety isolating transformer, general
	Pollution control mark (China)
	Symbol regulatory compliance mark of The Australian Safety/EMC Regulations

## 1.5. Definition of the groups of persons involved

### WARNING

- |  |  |
|--|--|
|  | <i>All persons working with the ELBUR nursing beds must be acquainted with the safety instructions contained in this manual. Improper operation can result in personal injuries or product damage.</i> |
|--|--|

**Operator** – every natural and legal person (e.g. care home operator, medical supply distributors) responsible for safe operation and supervising of the bed.









**User** – person who is qualified how to operate the bed or handle its functions, based on performed trainings, experience or briefing. The user is able to recognize and avoid possible risks and to assess the health condition of occupant.
















**Patient** – person who is injured, disabled or handicapped and who occupies the ELBUR nursing bed in need of care.

For homecare application area Operator, User and Patient can be perceive as the same person.














## 2.0. Safety information and general warnings

















### WARNING









- |  |   |
|--|---|
|    | <i>Before assembling and operating the Care Bed, you must read, familiarize, understand and follow all instructions in this manual and with rated values/symbols provided on labelling carefully. It helps to prevent any damage and risk occurring due to incorrect operation or use. All safety features instructions mentioned in this document must be strictly observed.</i> |
|    | <i>Use the Care Bed in accordance to its intended purpose and in accordance to all instructions detailed in this manual, describing the normal operating procedure, to ensure convenient handling, safe operation and effective use of this bed and the safety of users and carers.</i>   |
|   | <i>ELBUR Care Beds: PB 325, PB 326, PB 331 and PB 337 are not suitable for child patients or for use in hospitals.</i>  |
|  | <i>Remember to keep this instruction manual for future reference. Please ensure that the manual is available to users and carers at any time throughout the bed's service life.</i>   |
|  | <i>All actions regarding assembling, handling, positioning and using of the bed must be performed in accordance with the provided information to ensure safe operation.</i>   |
|  | <i>Only use technically perfect bed, in proper and faultless condition - it must not be used if faults have been detected on it that may injure the patient, staff or a third person, the bed or surroundings.</i>  |
|  | <i>If damage or malfunction is suspected, take the bed out of service immediately, label it as non-conforming product and disconnect it from the power until exchange or repair of broken components.</i>   |
|  | <i>Before using the Bed, the operator should understand the Bed and its functionality.</i>  |

<b>WARNING</b>	
	<i>Any actions that are inconsistent with the manual are performed at your own risk and can result in serious injury or death. Elbur sp. z o.o. sp.k. shall not be held liable for any damage, injuries or accidents arising from unauthorised modifications, non-genuine spare parts, negligence or use that is at variance with this manual.</i>
	<i>Any serious incident that occurs in relation to this medical device, affecting the user/operator or the patient, should be reported to manufacturer - Elbur sp. z o.o. sp.k. and the Competent Authority of the Member State in which the device is used.</i>
	<i>The bed must only be operated by persons who are able to operate it in accordance with the manual. Operators and patients must be risk assessed to ensure they are able to operate the ELBUR Care Bed safely, without risk to themselves or others.</i>
	<i>Patients should used the bed adjustment function on their own only if their physical and mental condition allows it and if they have been positively verified (assessed as competent to do so) in this regard by qualified medical personnel. They must then understand any safety instructions in this manual. Before start using the Handset, the operating staff must make the patient aware of its control functions.</i>
	<i>It is recommended (but not required) to perform the assembly process with another person, qualified in ELBUR's Care Bed operating.</i>
	<i>This Bed must not be exposed to smoke, naked flame, extreme temperature, flammable gases or other hazardous substances or situations.</i>
	<i>The Bed must not be used where there is a danger of explosion or in the presence of uncontained flammable liquids.</i>
	<i>Electrical installations must meet local requirements.</i>
	<i>Electrical equipment can be hazardous if misused or abused. Do not open any electric components under no circumstances.</i>
	<i>ELBUR Care Beds do not have emergency-off switch. Remove the power plug in emergency situation.</i>
	<i>Ensure that all cables (Power Mains Cable, Handset cable, Actuators cables) are not damaged by crushing, that there is no loop in the cables and that they are not get entrapped between the moving parts of the bed.</i>
	<i>Only the Power Supply Lead supplied with the bed may be used. Connect it directly to an electrical outlet – do not use extension cords or multiple outlet extension cords.</i>
	<i>ELBUR Care Bed should be located in place which allow to easily removing mains plug from the socket.</i>
	<i>The electrical supply cable could create a trip hazard. Safely position and route the cable underneath the bed using its holders.</i>
	<i>Make sure that the Power supply cord does not get squished under the castors.</i>



<b>WARNING</b>	
	<i>The Handset should be positioned to avoid strangulation risk. Make sure it is placed properly, that it is not trapped between Side Rails and Mattress Support Platform/other furniture.</i>
	<i>At the same time only one person can operate the bed functions. It is strictly prohibited to press all buttons simultaneously on the Handset.</i>
	<i>The bed must not be used if there is any visible damage to the any electrical part of the drive system.</i>
	<i>When routing cable for other electrical equipment used with the bed, ensure that those cables cannot be squeezed, crushed or damaged by the moving parts on the bed. Inappropriate routing of accessory cables could lead to dangerous electric hazards. The bed must not be used if there is any visible damage to any cables.</i>
	<i>If using the electrical functions adversely affects the health of the bed user, disconnect the power supply and only use the bed in static mode.</i>
	<i>Do not exceed the maximum duty cycle of 2 minutes. Observe a subsequent break of at least 18 minutes by all means.</i>
	<p><i>For reasons of safety and electromagnetic compatibility, use only original electric components from Elbur that have been released for the Care Bed model in order. Otherwise it can caused danger for patients and loss of bed functionality.</i></p> <p><i>It is still possible that the operation performance is influenced by electromagnetic fields like those of cell phones, power generators of high power energy sources, despite sample representing products family of ELBUR Care Bed type PB was tested on electromagnetic combability and complied to the EN 60601-1-2 standard.</i></p> <p><i>On the other hand, it is also possible that the electronics of the bed can influence other electronic devices.</i></p>
	<i>The special attention should be given to children and pets - keep them away from this bed unless supervised by an adult as there is a risk of injury and/or choking on small parts.</i>
	<i>Maximum Patient Weight and Safe Working Load must never be exceeded.</i>
	<i>Only one person should occupy the bed at any time.</i>
	<i>Use the bed on the flat, level, solid floors - remember that all four castors must touch the ground and must be locked if there is a patient on the Bed and location is not going to move, as an unlocked bed castor can cause injury to a patient who leaves the bed or changes position.</i>
	<i>This bed is not adapted for patient's transport, but it can be moved within patient room for cleaning or patient access. Remember to unplug the Power Supply Lead before relocating the bed and make sure it will not be rolled over or damaged in other way.</i>
	<i>ELBUR Care Bed with a patient may only be moved in an emergency situation. This activity should be then performed by two people due to force the propulsion, but above all to ensure necessary safety. Patient has to stay in flat position and Care Bed should be adjusted in the lowest height.</i>

<b>WARNING</b>	
	<i>When moving ELBUR Care Bed on the TLSU Transport Bracket, take special care to prevent it from tipping over or unexpectedly moving.</i>
	<i>Do not use the bed as a means of transport, ladder, or storage for heavy or hot objects. Never stand on the bed.</i>
	<i>Do not perform medical operation on the ELBUR Care Bed.</i>
	<i>Before operating this bed, ensure that its user is safely positioned to reduce the risks of bed fall or entrapment.</i>
	<i>There must be enough space for bed height adjustment in the full range. It cannot be blocked by any obstacles such as bedside lockers or window sills etc.</i>
	<i>When operating the moving parts of the bed, care must be taken to ensure that the patient, operator or any other people, especially children or pets, and objects do not become trapped, jammed or injured.</i>
	<i>The height of the Mattress Support Platform must be adjusted to the correct level for the patient's health condition. It should also facilitate the provision of appropriate care to the staff.</i>
	<i>The Bed should be left in its lowest position and with side rails in the upper and locked position when the patient is unattended to reduce risk of injury due to falls.</i>
	<i>Always check for any entrapment risks under the bed before lowering to its lowest position.</i>
	<i>Never use area under the bed as a storage space.</i>
	<i>Do not lower the bed while a Patient Hoist that extends beneath the bed is being used. Hoist access is obtained when the bed is event in its lowest position, but for ELBUR PB 337 is necessary to raise its Mattress Support Platform to at least 30 cm measured from the floor.</i>
	<i>Use only original Elbur accessories which are compatible with this bed – any modification is strictly forbidden without authorization of our company.</i>
	<i>Contact your local distributor or manufacturer directly if the exchange or repair of faulty parts have to be made. Only original materials and components may be used in those kind of situations.</i>
	<i>Only use Side Rails that are compatible with this bed as supplied by Elbur. Incompatible Side Rails can create hazards and entrapment risks. There must be a minimum height of 22 cm without compression measured from the top of the mattress to the top edge of the top rail.</i>
	<i>Where a speciality mattress (thicker than 15 cm) or mattress overlay is used and the distance from the top of uncompressed mattress to the top of the side rails, if fitted, is less than 220 mm a risk assessment must be performed to assure equivalent safety, in order to prevent trapping or person completely falling out in accordance to EN 60601-2-52.</i>
	<i>If a Lifting Pole is fitted on the Bed, increased attention must be taken during movement or lifting, to the space around the lifting pole, so that the equipment is not damaged.</i>





<b>WARNING</b>	
	<i>Make sure that other attached equipment, which is compatible with the ELBUR Care Bed, can function in a secure and safe manner. Contact your local distributor or manufacturer, if you have any doubts.</i>
	<i>ELBUR Care Bed must be cleaned and washed down with a mild household disinfectant in case of a patient change or in other situation required it. Before start cleaning procedure, the bed's power supply lead must be disconnected from the socket.</i>
	<i>Clean / disinfect the bed by wiping all rigid parts with a soft, damp cloth (not drenched) with a mild household disinfectant, suitable for varnishes and synthetics (only gentle, not aggressive agents should be used in order to maintain the material resistance).</i>
	<i>ELBUR Care Bed must not be cleaned in automatic bed washer or with high-pressure or steam cleaner, as liquid penetrates into the electrical components could result malfunctions and danger. Protect those components from moisture.</i>
	<i>Only specially authorized technicians are allowed to carry out troubleshooting activities and replace individual electric components in the event of their failure.</i>
	<p><i>Maintenance must be carried out only by or under supervision of suitably trained and qualified personnel or professional persons such as electricians or electro-technically instructed persons who have knowledge of the relevant provisions and are able to recognize possible risks and hazards. Failure to do so may result in injury or an unsafe product.</i></p> <p><i>It is obligated to perform periodic inspections and electrical tests according to EN 62353 performed by technically trained person at least once a year, with every re-use for a new patient or with every maintenance, to ensure safe condition of the Nursing Bed.</i></p> <p><i>The subsequent technical safety check has to be documented.</i></p>
	<i>During performing service work or functionality check patient cannot lay on the bed.</i>
	<i>The manufacturer is not liable for damage caused as a result of not following instructions from this manual or by the lack or improper service.</i>

### 3.0. Scope of delivery, transport and storage



ELBUR Care Beds are delivered unassembled and mounted on the TLSU Transport Bracket, what simplify transport and relocating on the place of delivery (at the customer's special request, they can also be packed in cardboard boxes).

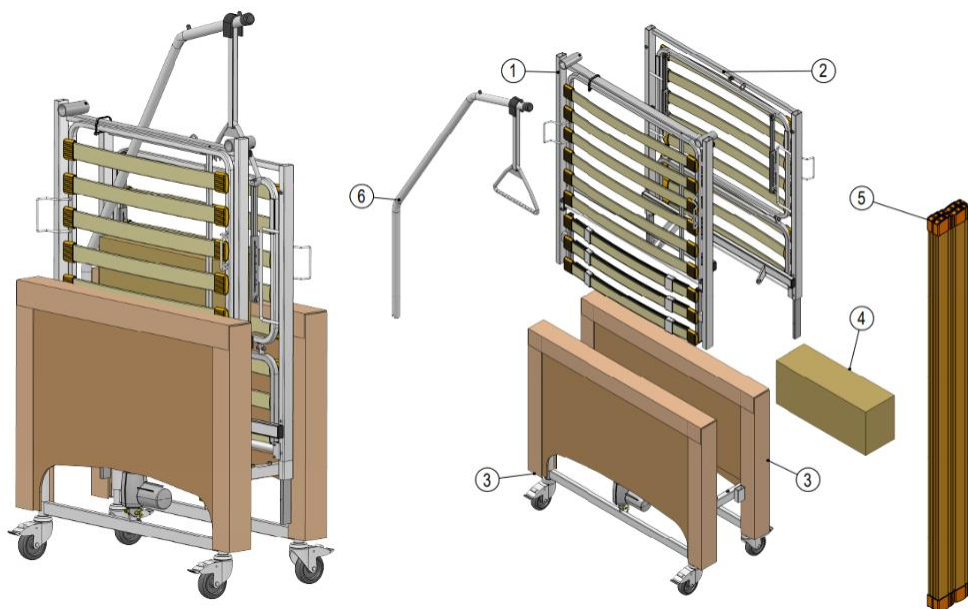
Reliable package protects beds from external damages and ensures that patient or user get a bed in the perfect condition.

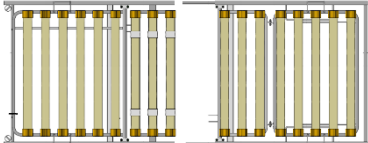
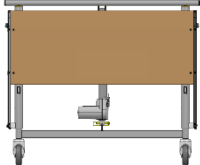
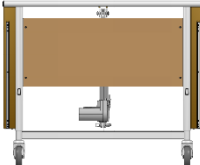
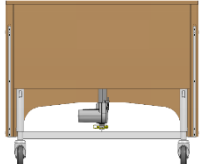
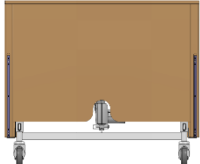
# WARNING

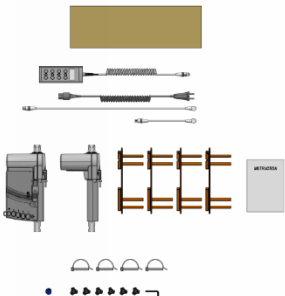

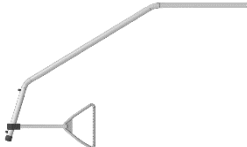
- |  |   |
|--|---|
|  | <i>Extreme caution must be taken when moving the bed on its TLSU Transport Bracket to prevent from the bed tipping over or moving unexpectedly.</i>               |
|  | <i>Before start assembling or operating ELBUR Care Bed, you must read, understand and follow all instructions written in this manual carefully.</i>               |
|  | <i>If the bed has become soiled or contaminated during transport refer to cleaning and disinfection instructions.</i>   |
|  | <i>If the Bed is stored in conditions outside the normal operating range, it should be allowed time to stabilise, in normal operating conditions, before use.</i> |

# ATTENTION




- |  |   |
|--|---|
|  | <i>Always verify shipment contents with your order (items described below may not be included in the ordered model configuration) to ensure that delivery is complete and undamaged. Check whether any visible damage has occurred to the Bed during transport.</i> |
|  | <i>Any missing parts, faults or damage must be reported immediately to the carrier and your local distributor or Elbur directly in writing.</i>   |





No.	Description	Reference picture
1.	<p><b>Mattress Support Platform – Head End with Back Rest</b></p> <p><i>The standard dimension of the assembled Mattress Support Platform is: 90x200 cm, but it is possible to order beds in a special width and/or length.</i></p>	 <p><i>Standard Mattress Support Platform with wooden slats as a base (optional – metal slats as a base)</i></p>
2.	<p><b>Mattress Support Platform – Foot End with Leg Rest</b></p> <p><i>The standard dimension of the assembled Mattress Support Platform is: 90x200 cm, but it is possible to order beds in a special width and/or length.</i></p>	
3.	<p><b>Bed End</b> (fully assembled with mounted Hi-Lo Lifting Actuator and cable for connecting to CB6 Control Box)</p> <p>[for each model there are delivered 2 identical Bed Ends, which may be fitted to either end of the Mattress Support Platform]</p> <p><i>For each bed end there are several different décor colours of the wooden elements (standard – dark beech).</i></p> <p><i>The width of the bed end depends on the ordered width of the mattress support platform.</i></p>	 <p><i>Bed End type PB 325</i></p>  <p><i>Bed End type PB 326</i></p>  <p><i>Bed End type PB 331</i></p>  <p><i>Bed End type PB 337</i></p>

No.	Description	Reference picture
4.	<p><b>Carton Box with accessories:</b></p> <ul style="list-style-type: none"> <li>• 1x CB6 (or CA40) Control Box with LA27 Back Rest Actuator,</li> <li>• 1x LA27 Leg Rest Actuator,</li> <li>• 1x HL74 Handset with a Blue Key to lock/unlock adjustment functions,</li> <li>• 1x Power Supply Lead,</li> <li>• 1x Cable (200mm long for CB6 or 300 mm long for CA40) for connecting LA27 Back Rest Actuator to the Control Box,</li> <li>• 1x Cable (600mm long) for connecting LA27 Leg Rest Actuator to the Control Box,</li> <li>• 4x Plastic Slider with 4 fingers,</li> <li>• 4x Quick-release bolt,</li> <li>• 6x Plastic head thumb screw (hand knob),</li> <li>• 1x 4mm Allen key,</li> <li>• 1x Instruction for Use.</li> </ul>	
5.	<p><b>Side Rails</b> (wooden type, full-length of the bed)</p> <p>Set contains 4 bars with plastic end cap each end (8 of them in total).</p> <p>There are other options of Side Rails to order:</p> <ul style="list-style-type: none"> <li>- Split Side Rails,</li> <li>- Folding Side Rails,</li> <li>- Full-length Metal Side Rails.</li> </ul> <p><i>If any of them are ordered the appropriate assembly instruction is supplied.</i></p>	 <p><i>Full-length Wooden Side Rails (Standard)</i></p>
6.	<p><b>Lifting Pole with Strap and Triangle Handle</b></p>	

## 4.0. Electric components

<b>WARNING</b>	
	<i>ELBUR Care Beds do not have emergency-off switch. Remove the power plug in emergency situation.</i>
	<i>Duty cycle: Intermittent operation 2 min / 18 min OFF. This implies that after the maximum continuous action of two minutes, there must be a break of 18 minutes.</i>
	<i>Do not attempt to open or repair any electrical parts. It could be fatal!</i>

<b>ATTENTION</b>	
	<i>Thermal switch turns off control box if it overheats, when e.g. someone continuously playing with the Handset. After a cooling down time of approx. 30 minutes, it should be ready to re-use again.</i>
	<i>Limit switches turn off the Actuators, when they get to the limit position.</i>

ELBUR Care Beds described here are equipped with drive system from Linak, a market leader in electric linear actuator technology worldwide.

The input voltage is converted into a protective low voltage in the Control Box. The Actuators and the Handset function with non-hazardous low voltage.

The level adjustment of the Mattress Support Platform is adjusted via two Main Lift Actuators, connected to the Control Box with helical cables.

Electric adjustments of the Back Rest and Leg Rest sections is performed by two separate Actuators connected with Control Box by straight cables.

<b>Control Box</b>		
<b>Configuration</b>	<b>Standard</b>	<b>Optional</b>
Type	<i>Linak CB6</i>	<i>Linak CA40</i>
Supply voltage, frequency	<i>230 V AC, 50/60 Hz</i>	<i>100-240 V AC, 50/60 Hz</i>
Current input	<i>Max. 1 A</i>	<i>Max. 2,5 A</i>
Protection category	<i>IPX4</i>	<i>IPX6 Washable</i>
Duty cycle	<i>10 %, Max. 2 min / 18 min.</i>	
Electrical appliance Class	<i>II</i>	




<b>Power mains cable</b>	
Type	<i>Linak, SML912163-A (The EPR Power Supply Lead is fitted with a push-on anti-kink device and tension protection)</i>



<b>Main Lift Actuator</b>	
Type	<i>Linak LA 27</i>
Maximum Load / Lift	<i>1500 N / 405 mm</i>
Protection category	<i>IPX4</i>
Power rate	<i>24 V DC, Max. 3,5 A</i>
Duty cycle	<i>10 %, Max. 2 min / 18 min.</i>
Electrical appliance Class	<i>II</i>

<b>Back Rest Actuator / Leg Rest Actuator</b>	
Type	<i>Linak LA 27</i>
Maximum Load / Lift	<i>3500 N / 85 mm</i>
Protection category	<i>IPX4</i>
Power rate	<i>24 V DC, Max. 3,8 A</i>
Duty cycle	<i>10 %, Max. 2 min / 18 min.</i>
Electrical appliance Class	<i>II</i>

<b>Handset</b>	
Type	<i>Linak HL74</i>
Protection category	<i>IPX4</i>

## 5.0. Accessories and spare parts

<b>WARNING</b>	
	<i>For safety reasons only use original Elbur accessories – modification of this Care Bed is strictly forbidden without the approval of the manufacturer.</i>
	<i>After each modification, previously approved by the manufacturer, all functions must be tested and approved by properly trained and qualified personnel, in accordance with the criteria and guidelines set out in the following sections.</i>
	<i>When using accessories on the bed, ensure particularly that there are no risks of crushing or shearing for the patient when adjusting Mattress Support Platform and positions of its sections.</i>

<b>ATTENTION</b>	
	<i>Elbur sp. z o.o. sp.k. will assume no liability for any accidents, damage, injury, hazards and risks arising from the use of other accessories and spare parts (not supplied directly from Elbur or by your local distributor).</i>
	<i>Elbur sp. z o.o. sp.k. does not accept any liability for the use of these products on other makes.</i>

Every element of our additional equipment we offer meets the special quality and safety standards of Elbur established with the company policy.

The installation of our practical and mobility-promoting accessories is done in a quick and easy manner using the fixing points on the bed that have already been prepared for this purpose. Those products ensure that ELBUR Care Bed is even more precisely tailored to the individual needs of the patient requiring special care.

The full list of accessories possible to use is available on the manufacturer's website [www.elbur.eu](http://www.elbur.eu) or in the Product Catalogue. There can be found marketing information and technical specification for individual products, such as different kind of:

- side rails,
- extra-height side rails,
- upholstered covers for side rails,
- bed levers,



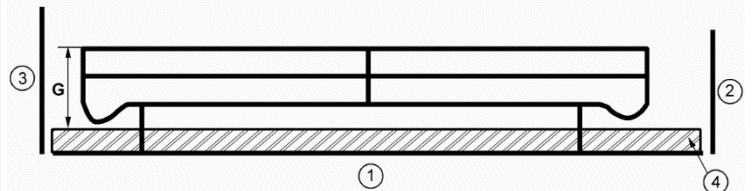
- mattress support platform extensions,
- trays for eating meals,
- bedside reading lamps.

Various accessories can be added to assist patient and carer, but not to every bed model – it depends on its configuration.

The possibility of using a specific type of additional equipment in conjunction with a given model of ELBUR Care Bed should be consulted with the Sales Department of Elbur sp. z o.o. sp.k.

If there is a need to replace any element of the bed (damaged or worn), please contact the manufacturer who will provide a list of spare parts to identify the required article number.

## 6.0. Mattress selection

<b>WARNING</b>	
⚠	<p><i>There must be a minimum height of 22 cm without compression measured from the top of the mattress to the top edge of the top side rail. This is illustrated on the pictured below.</i></p>
	 <p>1 – mattress support platform, 2 – foot end board, 3 – head end board, 4 – mattress, <b><math>G \geq 22\text{cm}</math></b></p>
⚠	<p><i>Where a speciality mattress or mattress overlay is used and the distance from the top of uncompressed mattress to the top of the side rails, if fitted, is less than 220 mm a risk assessment must be performed to assure equivalent safety.</i></p>
⚠	<p><i>Mattress platform extension infill piece must be used if the mattress support platform is extended. Failure to do so will result in unacceptable gaps and risk of injury and entrapment.</i></p>
⚠	<p><i>All mattresses must be fitted and used in accordance with the mattresses manufacturer or supplier's instructions.</i></p>

Standard mattress size, which is dedicated for use on ELBUR Care Beds described in this manual, has dimensions equal to:

- 90 cm wide,
- 200 cm long,
- and max. 15 cm thick (height),

assuming at the same time the volumetric density of the foam at least 35 kg/m<sup>3</sup>.

Elbur sp. z o.o. sp.k. offer various types of side protection system solutions, enabling the use of mattresses even up to 32 cm thick on ELBUR Care Beds.

## 7.0. Assembly and use

<b>WARNING</b>	
	<i>Before commencing assembly of the ELBUR Care Bed, you must carefully read, understand and follow all instructions in this manual and on the bed labels.</i>
	<i>Assembly must be carried out by suitably trained and qualified personnel.</i>
	<i>Assembly must take place in clear, uncluttered area – there must be enough space available for adjusting the bed in the full height range and the space under the bed must remain clear.</i>
	<i>A 230 V power outlet (properly installed) must be available, near the bed in easily reachable position.</i>
	<i>Children and pets should be kept away from the device.</i>
	<i>All functions must be tested and approved after assembly by suitably trained and qualified personnel.</i>

### 7.1. Preparation

<b>WARNING</b>	
	<i>The TLSU Transport System will be unstable from the moment when the grub screws are loosened – please be especially careful then.</i>

<b>ATTENTION</b>	
	<i>It is recommended to keep TLSU Transport System for future use when the bed would have to be properly stored.</i>
	<i>Packaging must be sorted according to recyclable and other types of waste, recycled and disposed of in line with the environmental regulations and legislation of the country concerned.</i>

It is necessary to get rid of all packaging materials first and then remove individual elements from the TLSU Transport System:

- 1) Lifting Pole if it is not packed in the separate carton box,
- 2) Side Rails if they are not packed in the separate carton box,
- 3) Carton Box with accessories and assembly kit (to make it easier please fold back a little the Mattress Support Platform Head End),
- 4) MSP Head End first and then MSP Foot End.

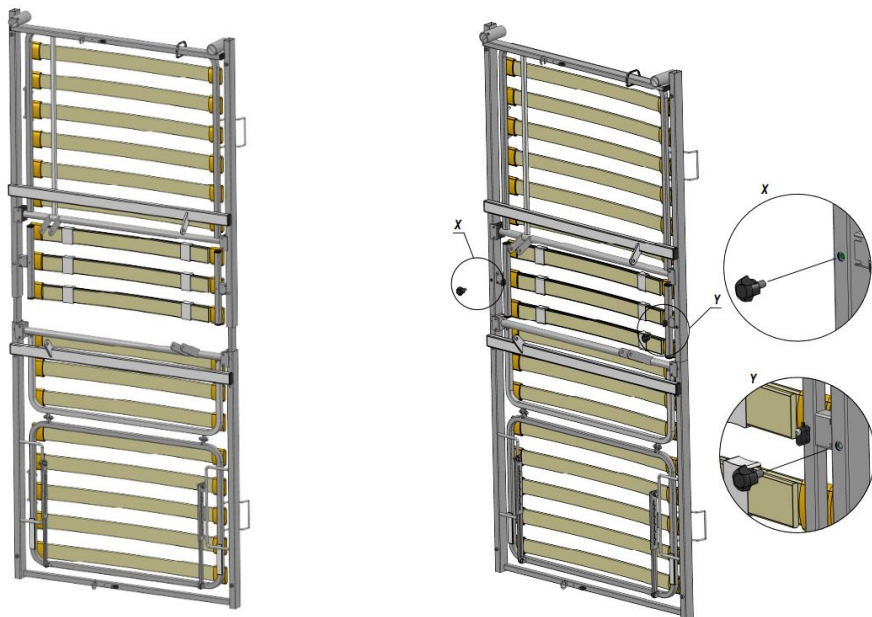
Use the Allen key (included in the Carton box with accessories and assembly kit) to loosen the grub screws in the TLSU Transport System, what enable the disassembly of the Bed Ends. They can be taken then out, so the next stages of the assembly process can be performed.

### 7.2. Mattress Support Platform





<b>ATTENTION</b>	
	<i>There is no difference in assembly process of Mattress Support Platform with wooden or metal slats.</i>
	MSP Head End is marked with a special label (placed on the Back Rest Section).

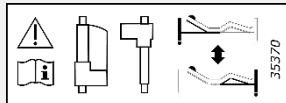


- 1) Insert Head End Section of Mattress Support Platform into Foot End Section of Mattress Support Platform as far as it goes – halves need to be joined by parallel movement to make sure that they do not get jammed.
- 2) When both parts of the Mattress Support Platform are pushed together, secure the MSP Head End onto the MSP Foot End with the two plastic headed thumb screws in threaded holes (in the middle of the bed) and tighten them by hand, one on each bottom side of the bed frame.



### 7.3. Assembly of Control Box and MSP Actuators

<b>WARNING</b>	
	<p>Particular attention should be paid to the correct positioning of the Back Rest and the Leg Rest actuators under the Mattress Support Platform. These must not be interchanged. Otherwise it can caused damage of electric components and/or their improper work.</p> <p>A special <u>Warning / Information label no. 35370</u> is located underneath the bed indicates the correct installation of the drive system.</p>
	<p>Back Rest Actuator has to be fitted under Mattress Support Platform with the motor housing towards the Foot End.</p>
	<p>Leg Rest Actuator has to be fitted under Mattress Support Platform with the motor housing towards the Head End.</p>
	<p>Electrical equipment can be hazardous if misused or wear. Do not open any electric components under no circumstances</p>



## ATTENTION



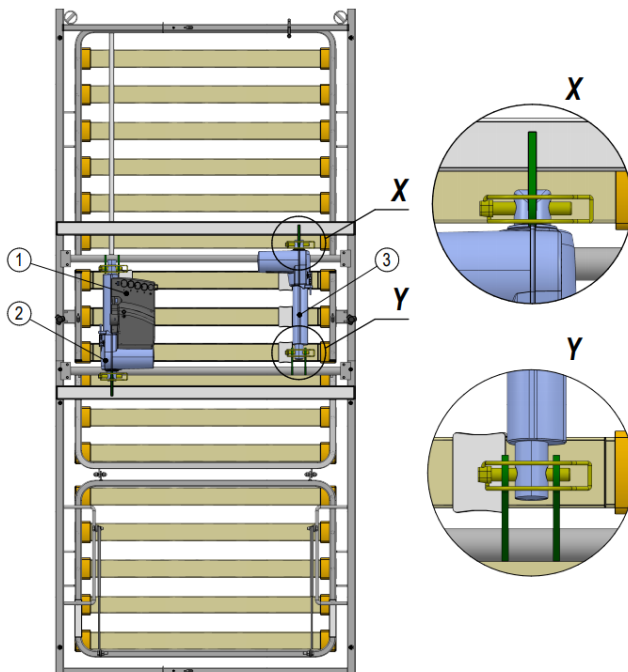
*The Control Box is fitted to the Back Rest Actuator in the manufacturer warehouse and packed so in the carton box with accessories and assembly kit.*

- 1) Fit both Actuators into the MSP brackets (shown in green) - align assembly holes in actuators with holes in those holding brackets,
- 2) Insert the quick-release bolts (shown in yellow) and secure by closing the retainers.

Bottom View

### MSP Head End

- 1) Control Box  
Linak CB6;
- 2) Back Rest  
Actuator  
Linak LA27;
- 3) Leg Rest  
Actuator  
Linak LA27.



### MSP Foot End

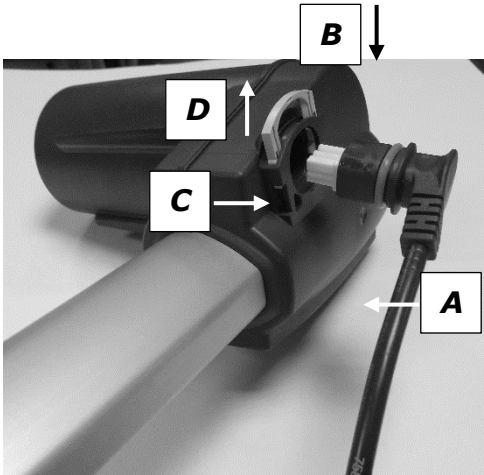
## 7.4. Actuator cable clip protection

### 7.4.1. New type of actuator cable clip

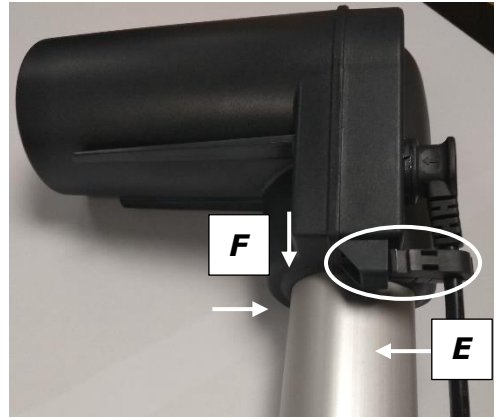
To perform correct assembly, insert the actuator cable to appropriate channel (A) and push the retaining clip down (B). Removing the retaining clip from the base of actuator is done by squeezing the clip on either side (C) then lifting the clip (D). If necessary, use a small flat blade screwdriver to lift the clip.

### 7.4.2. Old type of actuator cable clip

To perform correct assembly, insert cable plug appropriately in actuator channel and push retaining clip until it clicks into place (E). Removing the retaining clip old type from the base of actuator is done by pushing clip down then pulling it (F). Cable plug can be then easily bringing out from the actuator socket.











**New type of Actuator cable clip**




**Old type of Actuator cable clip**

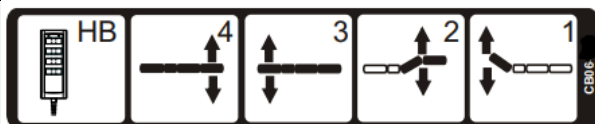
## 7.5. Connecting electric components and cable routing

<b>WARNING</b>	
	<i>Inspect all wiring for damage and risk of crushing.</i>
	<i>Ensure that all cables (Power Mains Cable, Handset cable, Actuators cables) are not damaged by crushing, that there is no loop in the cables and that they do not get entrapped between the moving parts of the bed.</i>
	<i>Only the Power Supply Lead supplied with the Bed may be used. Connect it directly to an electrical outlet – do not use extension cords or multiple outlet extension cords.</i>
	<i>ELBUR Care Bed should be located in place which allow to remove easily mains plug from the socket.</i>
	<i>The electrical supply cable could create a trip hazard. Safely position and route the cable underneath the bed using its holders.</i>
	<i>Make sure that the power supply cord does not get squished under the castors.</i>
	<i>The Handset should be positioned to avoid strangulation risk. Make sure that Handset is placed properly, that it is not trapped between Side Rails and Mattress Support Platform/other furniture.</i>
	<i>The Bed must not be used if there is any visible damage to any of the drive system electric components.</i>

### 7.5.1. Standard version – Linak CB6 Control Box

<b>ATTENTION</b>	
	<i>The Control Box has a label to help identify the port into which to plug the Handset and Actuators cables. The numbers 1-4 are printed on the label and on the Control Box just above the ports.</i>

### ATTENTION



1) Connect the Actuators cables and Handset cable to the Linak CB6 Control Box as described below:

- HB – Handset,
- 4 – Foot End Lifting Actuator\*,
- 3 – Head End Lifting Actuator\*,
- 2 – Leg Rest Actuator,
- 1 – Back Rest Actuator.



\*connect cables from Lifting Actuators after assembly of the Bed Ends with Mattress Support Platform.

- 2) Ensure the cables plugs are pushed properly into the sockets.
- 3) Secure Cables, plugged into appropriate channels, with the Control Box Cables Clip.
- 4) Connect the Power supply lead with Control Box (socket for the Mains cable is on the side of the Control Box – shown in red circle).

The Power Cable Holder is located on the Mattress Support Platform, both Head End and Foot End. The Power Supply Lead has to be secured in the Power Cable Holder with the strain relief provided on the cable, otherwise it might be damaged by stretching, running over or squeezing.

The Handset cable must be routed from the Control Box underneath the Mattress Support Platform. There are holders on both sides of the MSP (in the non-moving section), which can be used to hold the Handset cable, depending on the user's requirements.

### 7.5.2. Optional version – Linak CA40 Control Box

### ATTENTION

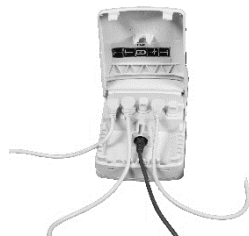


*There is a sticker identifying individual ports of Linak CA40 Control Box under its cover part. It makes easier to perform an appropriate installation of all cables. The numbers 1-4 are printed on the label and on the Control Box just above the ports.*



- 1) Connect the Actuators cables and Handset cable to the Linak CA40 Control Box as described on the following page:

- 1– Back Rest Actuator,
- 2 – Head End Lifting Actuator \*,
- battery – if there is no battery, use an end plug for an unused channel,
- 3 – Leg Rest Actuator,
- 4 – Foot End Lifting Actuator \*,
- Handset is connected below the main channels.






\*connect cables from Lifting Actuators after assembly of the Bed Ends with Mattress Support Platform.

- 2) Ensure the cables plugs are pushed properly into the sockets.
- 3) Close the Control Box cover securing the connected cables.
- 4) Connect the Power supply lead to the Control Box.



To secure properly the power supply lead and the Handset cable during the use of the ELBUR Care Bed, use the fixing points described in subclause 7.5.1.

## 7.6. Castors operating

### WARNING

	<i>Remember to lock all castors when the bed is in use, during assembly and disassembly, to prevent the bed from accidental displacement.</i>
	<i>Always engage the brakes when the bed is in its intended place of use or when patient is left unattended.</i>
	<i>The castors may become damaged, when the bed is moved along a rough, uneven or dirty surface. Good operation of the castors is influenced by their wear and contamination (water, oil).</i>

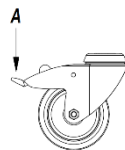
### ATTENTION

	<i>All castors must be accessible at all times when the bed is ins use.</i>
	<i>Castors have to be directed (oriented) along the bed before they are locked.</i>

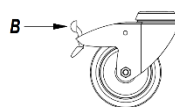
These castors are designed for use in an indoor environment and for travel on even, smooth and clean floors (e.g. ceramic floor tiles, linoleum, cast floors).

Each of the four castors is equipped with a separate brake.






- 1) To apply the brake press down on the surface of the lower tilting lever downwards by foot as far as it goes (A), until it brakes the castor and locks in the 'down' position.




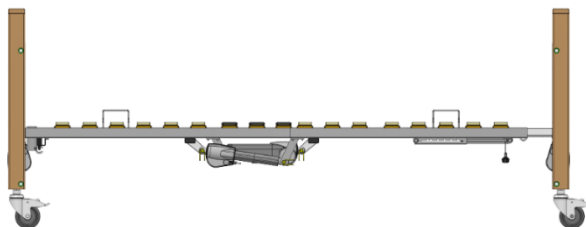
- 2) To release the brake press horizontally the surface of the top tilting lever backward by foot (B), until it springs back into the 'up' position - the castor is released.



## 7.7. Assembly of the Bed Ends with the MSP End Sections



<b>ATTENTION</b>	
	<i>There is no difference in the assembly process of the Bed Ends with Mattress Support Platform End Sections, regardless of the ELBUR Care Bed model.</i>
	<i>Two identical Bed Ends are supplied for each model and may be fitted to either end of the Mattress Support Platform.</i>
	<i>At the customer's special request instead of the four standard Head thumb screws used to assembly the Bed Ends with Mattress Support Platform Sections, four grub screws can be used, which are screwed with an Allen key (it is always packed in a box with accessories and mounting parts).</i>  <i>If the ELBUR Care Bed is configured with folding side rails, two clamping levers (they are packed in the box with this type of side protection) must be used instead of the two standard plastic headed thumb knobs for mounting the Bed Head-End.</i> 

- 1) Fit the Bed End and the Mattress Support Platform Head End together (insert the Bed End T-Profiles into the MSP tubes push them as far as possible). This assembly is carried out without the use of tools, using the plastic headed thumb screws\*, which must be firmly tightened by hand (or with a special laser-cut key available from the manufacturer) on both sides of the Bed End. Repeat the same steps for the second Bed End and MSP Foot End.
 










- 2) Make sure that all six plastic headed thumb screws are firmly tightened from the bottom of the Mattress Support Platform (two for connecting both parts of MSP and four for connecting Bed Ends with MSP Ends).

## 7.8. Height and angle adjustment of MSP and its segments

<b>WARNING</b>	
	<i>The height adjustment of the Mattress Support Platform or the inclination of its sections may be changed only by persons trained in this field, aware of all limitations and potential risks.</i>
	<i>Patients should used the bed adjustment function on their own only if their physical and mental condition allows it and if they have been positively verified (assessed as competent to do so) in this regard by qualified medical personnel. They must then understand any safety</i>



<b>WARNING</b>	
	<i>instructions in this manual. Before start using the Handset, the operating staff must make the patient aware of its control functions.</i>
	<i>Make sure that in the place where the bed is intended for use there is enough space to operate it in the full height range – check that there are no obstacles around, above and under the bed (it must not be blocked by e.g. bedside cabinets, other equipment and accessories, window sills, etc.).</i>
	<i>The height of the Mattress Support Platform and the inclination of its segments should be adjusted in accordance with the intended use.</i>
	<i>Do not exceed the maximum duty cycle of 2 minutes. Observe a subsequent break of at least 18 minutes by all means.</i>
	<i>At the same time only one person can operate the bed. It is strictly prohibited to press all buttons simultaneously on the Handset.</i>
	<i>Do not lose or misplace the Handset and its locking key. Store them in a safe place, if necessary, out of reach of the patient.</i>

<b>ATTENTION</b>	
	<i>Some of the buttons may not respond when pressed. If this is the case, they are probably locked to be used only by medical staff due to the patient's state of health.</i>
	<i>Elbur sp. z o.o. sp.k. assumes no liability for unauthorized technical changes.</i>

To change the selected position of the ELBUR Care Bed it is necessary to use the Handset. Simply press and hold the appropriate button responsible for this function until the target setting is reached (on the front side of the Handset there are pictograms showing the individual functions). To stop or finish the movement, just release the button.

Depending on the model of ELBUR Care Bed there are two ranges of height adjustment for the Mattress Support Platform:

- 40-80 cm for ELBUR: PB 325, PB 326, PB 331 and
- 23-63 cm for ELBUR PB 337.

Angle adjustment range is: 0-70° for the Back Rest Section and 0-35° for the Upper Leg Rest Section.

The Handset has got mounting bracket on its rear panel. It allows to keep the Handset always in easily reachable position on the ELBUR Care Bed. A coiled cable allows the necessary freedom of movement while operating.



### 7.8.1. Standard Handset

The Standard Handset allows to adjust

The ELBUR Care Beds: PB 326, PB 331, PB 337 normally are configured with the Standard Handset, which allows to adjust height of Mattress Support Platform and angle of the Back Rest and Leg Rest sections, either individually or together (auto contour), within a predetermined range.

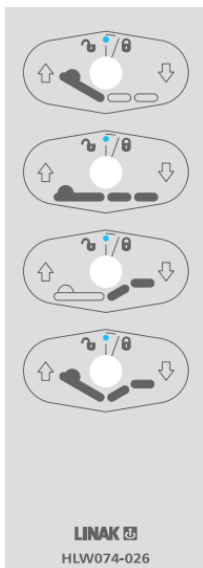
**Standard Handset (HLW074-026)****RAISING**

raising the Back Rest  
section

raising the Mattress  
Support Platform height

raising the Leg Rest  
section

raising the Back Rest  
and Leg Rest section  
together at the same  
time\*

**LOWERING**

lowering the Back Rest  
section

lowering the Mattress  
Support Platform height

lowering the Leg Rest  
section

raising the Back Rest  
and Leg Rest section  
together at the same  
time\*

 **activated**

 **disabled**

\*The Auto-Contour function allows for the parallel adjustment of the inclination changes of the Back Rest and Leg Rest sections in order to achieve a comfortable sitting position.

### 7.8.2. Comfort Handset

This type of Handset is standard equipment of the ELBUR Care Bed PB 325. It allows to adjust the height of the Mattress Support Platform, to change the inclination of the Back Rest section and Leg Rest section (only individually) and to achieve the Comfort position – head and torso are raised above the level of the patient's limbs.

The Comfort position (or anti-Trendelenburg) improves respiratory function for patients, but also facilitates daily care and reduces the risk of choking while eating meals and drinking.

In purpose of returning to the flat position, it is necessary just to press one of the buttons that are responsible for adjusting the height of the Mattress Support Platform ('row' no. 2 on the Handset).

All the adjustment functions are described on the next page.

### Comfort Handset (HLW074040)

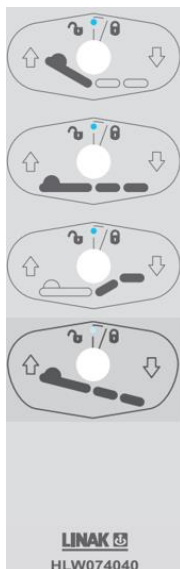
#### RAISING

raising the Back Rest section

raising the Mattress Support Platform height

raising the Leg Rest section

---  
(no function button)



#### LOWERING

lowering the Back Rest section

lowering the Mattress Support Platform height

lowering the Leg Rest section

lowering the LegRest section and raising the Back Rest section at the same time

 **activated**

 **disabled**

### 7.8.3. Trendelenburg Handset

#### WARNING



*The Trendelenburg position is only to be used on the orders of a doctor or medical staff if the clinical condition of the patient makes this necessary. Setting the Trendelenburg position unintentionally or for no reason can endanger the Patient.*

The models of ELBUR Care Beds described in this manual can also be ordered in a configuration with the Trendelenburg Handset (HLW074-008), which has got a button that allows to enable the reverse-Trendelenburg position (the same like Comfort Handset) and also another one for reaching the Trendelenburg position – patient is laying on his back then in such a way that the head and torso are lower than the legs.



In purpose of returning to the flat position, it is necessary just to press one of the buttons that are responsible for adjusting the height of the Mattress Support Platform ('row' no. 2 on the Handset).

### 7.8.4. Locking individual functions on the Handset

In order to prevent unintentional changes of Mattress Support Platform height or angle of its segments, individual functions may be locked and inaccessible for the patient. The Blue Locking Key (added to each delivery of the ELBUR Care Bed) allows to turn on or off respective functions on the Handset.



To disable a specific function, insert the Handset Locking Key into the Lock / Unlock small dial between two adjustment buttons.

Rotate the Handset locking key clockwise – the indicator changes then from Green (Unlocked) to Yellow (Locked). Then, bed user or patient is not able to change a particular position.

Green Indicator – Function Unlocked



Yellow Indicator – Function Locked



If you turn the Handset Locking Key anti-clockwise, the indicator in the middle turns green, what means that the button is 'Unlocked' and function has been engaged again.

## 7.9. Additional adjustment of the Lower Leg Rest

### WARNING



*Do not put your fingers between moving parts of the Mattress Support Platform – it can caused their entrapment and serious injuries!*

### ATTENTION

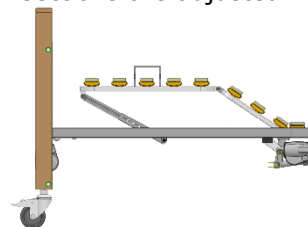


*ELBUR PB 325 is not equipped with two Rastomats for manual adjustment of the Lower Leg Rest Section in the standard configuration, but it is an option for this model and can be extra ordered and assembled in the warehouse.*

### 7.9.1. Electric adjustment of the Lower Leg Rest

If the Leg Rest is raised using the Handset, its both sections are adjusted in that direction: Upper Leg Rest and Lower Leg Rest.

During lowering the Leg Rest using the Handset, the Lower Leg Rest Section locks into place in several intermediate positions of two Rastomats fitted underneath this part of MSP Foot End. If the Leg Rest would be raised again using the Handset, the Lower Leg Rest would remain in position.






### 7.9.2. Manual adjustment of the Lower Leg Rest


In addition to electrical regulation, Lower Leg Rest Section can be also adjusted manually. However, firstly is needed to raise the Leg Rest Section using the Handset (the Leg Rest Actuator must be extended).

To raise the Lower Leg Rest manually then, grab one of its profile (preferably the end one – first from the side of the Bed End; not the mattress guides!), lift and pull it up until desired position is reached. The Lower Leg Rest blocks automatically in successive positions (at next notches of Rastomats).

In order to lower this part of the bed, it has to be raised first to its maximum extent (to release the Rastomats). It can be carefully lowered then to the flat position.

## 7.10. Emergency lowering of the Back Rest

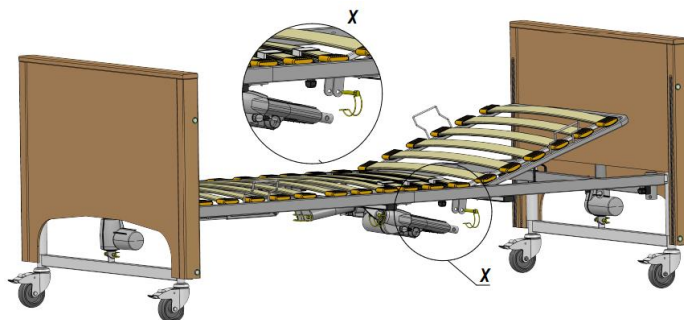
<b>WARNING</b>	
	<i>Emergency lowering of the Back Rest should be carried out by at least two people.</i>
	<i>Disregarding of these safety guidelines may lead to serious injuries for the user and the patient – back injuries and danger of hands squeezing.</i>
	<i>All functions must be tested and approved after emergency situation by a competent person.</i>

<b>ATTENTION</b>	
	<i>It is recommended to perform practice emergency lowering of the Back Rest under normal conditions so that in case of an emergency situation you will be able to react quickly and properly.</i>

In an emergency situation, when mains voltage has been interrupted or failure of the drive system, the Back Rest must be lowered manually to a completely flat position. In such a case, the Back Rest Actuator should be disassembled by pulling the quick-release bolt from the mounting brackets under the Mattress Support Platform.

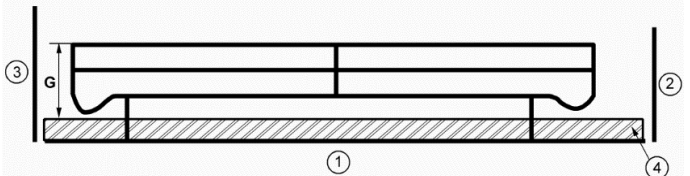


Emergency lowering of the Back Rest has to be done in the following order:

- 1) Disconnect the Power Supply Lead from the mains supply,
- 2) Ease the load on the Back Rest,
- 3) One user has to lift the Back Rest slightly and holds it in this position,
- 4) At this time another person has to open securing retainer and pull the quick-release bolt out of the hole in the mounting bracket under the Mattress Support Platform from the Head End (the Back Rest Actuator should be disassembled on the side opposite to its housing).
- 5) Then, first person can carefully lower the Back Rest to the flat position.









- 6) To restore the bed back to its normal operating state and condition of use, previously unfastened side of the Back Rest Actuator has to be installed again in the same way as it was done at the time of the original assembly of the drive unit – insert the quick-release bolt through the Back Rest Actuator and mounting bracket under the Head End section of the Mattress Support Platform and secure its retainer (see subclause 7.3.).


## 7.11. Side Rails

<b>WARNING</b>	
	Only compatible side rails supplied with the ELBUR Care Bed from the manufacturer must be used. The use of other brands is prohibited, as it may cause hazard and various types of dangers for the patient, user or carer.
	<p>The Side Rails first and foremost serve as a fall prevention. There must be a minimum height of 220 mm without compression measured from the top of the mattress to the top edge of the top side rail. This is illustrated on the picture below.</p>  <p>1 – mattress support platform, 2 – foot end board, 3 – head end board, 4 – mattress, <b>G ≥ 220 mm</b></p>
	Where a speciality mattress or mattress overlay is used and the distance from the top of uncompressed mattress to the top of the Side Rails, if fitted, is less than 220 mm a risk assessment must be performed to assure equivalent safety.
	<p>Incorrect assembly of the Full-length Side Rails will not allow to achieve the required and appropriate distance from the top of the mattress to the top edge of the top side rail, which can caused patient's entrapment between the rails and the bed frame or falling out of the bed!</p> <p>The position of drilled holes for mounting the fingers of the Plastic Sliders is not the same in all wooden slats delivered with the bed. This should be given special attention.</p> <p>It is necessary to use as an upper rail a wooden slat which have two holes drilled offset downwards and as a lower rail a wooden slat which has two holes drilled offset upwards.</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>Upper wooden slat has two holes drilled offset downwards.      Lower wooden slat has two holes drilled offset upwards.</p>
	Side rails should be handled with great care to prevent fingers and hands from getting caught and pinched between the wooden slats.
	If the Side Rails are in the upper position, always make sure they are properly and securely locked so that they cannot fall down unintentionally.

**WARNING**

	<i>Both ends of the Side Rails should always be at the same level in relation to the ELBUR Care Bed during use. They must not be left in a diagonal position when patient is on the bed.</i>
	<i>When the Side Rails are lowered, always hold the by the recess in the top rail or at the bottom by the bottom wooden slat to prevent them from dropping suddenly, which may result in the risk of injury (entrapment) or potential damage to the product.</i>
	<i>Make sure that the functionality and usability of the ELBUR Care Bed are not impaired during raising or lowering the Side Rails.</i>
	<i>Side Rails (or their height extensions, if present) must not be used to move or lift the ELBUR Care Bed on which they are mounted.</i>
	<i>A qualified person or medical professional have to assess and approve the patient's condition regarding the use of Side Rails on the used bed (the patient's height, age, physical and mental condition should be take into account). If the use of side rails is allowed, the patient should always be advised about their proper use and functioning.</i>
	<i>Before installation of the Side Rails and each new use, inspect all mechanical parts on the Mattress Support Platform, check all parts of the Side Rails, especially those securing them on the bed for any possible damages.</i>

**ATTENTION**

	<i>The instructions for use of the ELBUR Folding Side Rails or the ELBUR Divided Side Rails are included with every sold piece of these products. When ELBUR Care Bed is configurated with this type of side rails, it is necessary to carefully read these documents and refer to and follow all instructions included there.</i>
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The ELBUR Care Beds described in this manual are equipped with Full-length Side Rails, which are made of wooden bars and fitted with plastic end caps. The main task of Side Rails is to protect the patient against accidental falling out of the bed.

**7.11.1. Assembly of Side Rails**

The ELBUR Full-length Side Rails are ready to use after assembly described below:

- 1) Insert the Plastic Slider [3] on the right and left side in the upper [1] and lower [2] wooden slats.



*Upper wooden slat have two holes drilled offset downwards.*

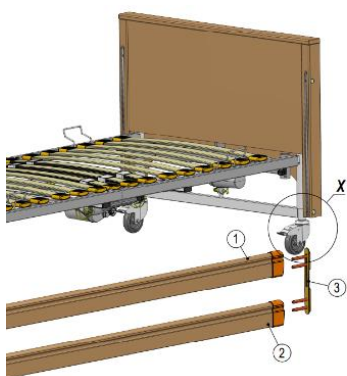


*Lower wooden slat have two holes drilled offset upwards.*

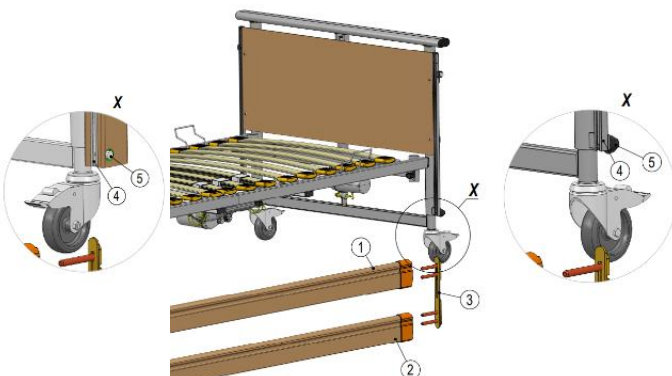
- 2) Insert and slide the wooden rails with fitted Plastic Slider in the corresponding aluminium rail [4] on the Bed Head-End and press the release button [5] on its side at the same time.

(There is no release button on side of the Bed End of the ELBUR PB 325 – to slide the wooden rails with fitted Plastic Slider it is necessary then to unscrew earlier the Hand knob mounted in the low section of the aluminium rail in that bed model).

- 3) Grasp the upper wooden slat and pull up the entire set of the Full-length Side Rails until they audibly engage at both ends (pull them above the upper button level, a click sound will be heard then and it will not be possible to lower the Side Rails anymore without pressing this button).
- 4) Repeat these activities for the Bed Foot-End – the best way is to carry out them parallel with the help of another person. Always make sure that the Side Rails are properly secured in the upper position, so they cannot be unintentionally released and that they are at the same height in relation to the mattress support platform.
- 5) Repeat all these steps described above on the other side of the bed with another two wooden slats from the set.



*ELBUR PB 331*



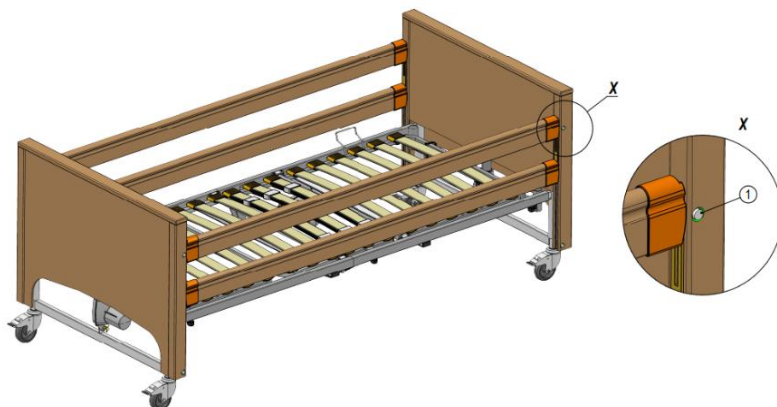
*ELBUR PB 325*

### 7.11.2. Lowering of Side Rails



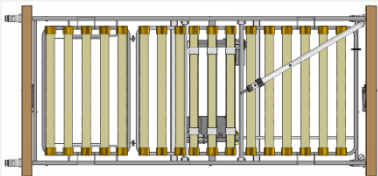
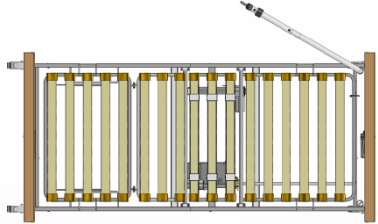




- 1) Grasp the upper wooden slat (preferably by the recess) and lift it slightly upwards,
- 2) Press the release button (1) at the same time on one side of the Head or Foot Bed End,
- 3) The Side Rails are released then on the corresponding side and can be easily, but slowly lowered down from their highest position to the stop at the very bottom - do not let them to drop suddenly, as this may injure the patient or user, but also damage the side protections.
- 4) The Side Rails are then in a diagonal position in which they cannot remain – the same actions, described above, should be performed at the opposite end of the bed.



- 5) When the Side Rails are completely lowered and are their lowest point along the entire length of the Mattress Support Platform, the patient can then safely leave the ELBUR Care Bed or re-occupy it again.



## 7.12. Lifting Pole

<b>WARNING</b>	
	<i>If a Lifting Pole is fitted on the Bed, increased attention must be taken during movement or lifting, to the space around the Lifting Pole, so that the equipment is not damaged. Do not use it to push or pull the Bed.</i>
	<i>The Lifting Pole must not be fitted or swivelled with the top of the Lifting Pole beyond the edge of the Mattress Support Platform.</i>
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><i>RIGHT</i></p>  </div> <div style="text-align: center;"> <p><i>WRONG</i></p>  </div> </div>	
	<i>The maximum weight Lifting Pole can safely support is 80 kg – do not exceed it and do not hang other objects on the Lifting Pole and its parts.</i>
	<i>Never use more than one Lifting Pole on the ELBUR Nursing Bed.</i>
	<i>If the Lifting Pole will not locate steadily across the bar in the one of the vertical tube and still rotates, the Lifting Pole cutout or mounting bar can be damaged. In this situation or if any other sign of wear is found (e.g. Strap), remove the Lifting Pole from use immediately and contact your local distributor or Elbur Customer Service directly.</i>
	<i>A qualified person must advise the user on correct use of the Lifting Pole and adjust the Strap to the correct length.</i>

# ATTENTION

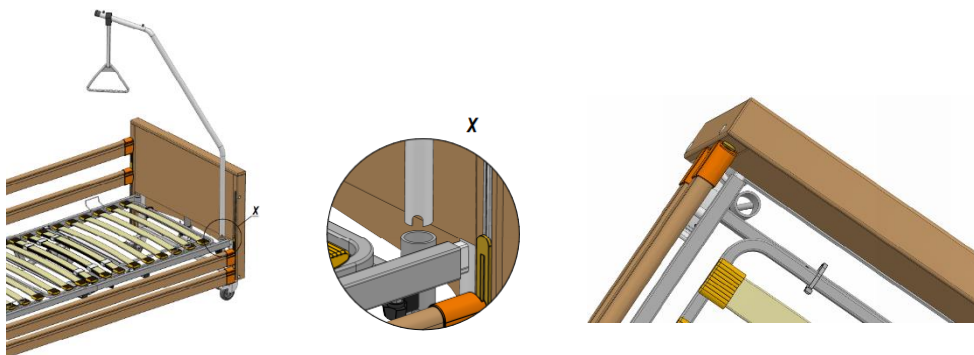


*The appropriate location of the Lifting Pole is determined by the horizontal pin inside the corner socket of the MSP Head End.*

The Lifting Pole is supplied with an adjustable Strap and Triangle Handle. It is used to reposition the patient in Bed and to assist the user in getting out of Bed.

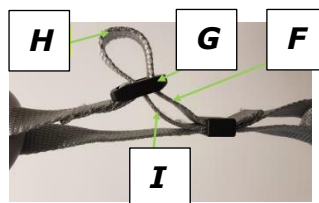
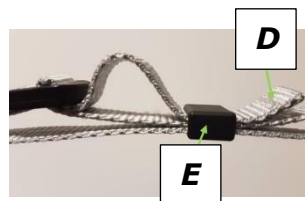
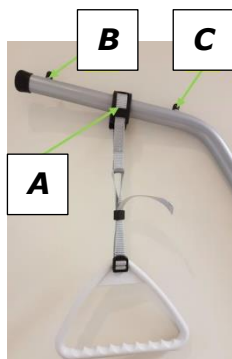
The Lifting Pole is ready to use after assembly described below:

- 1) There are two vertical tubes on either side at the Head End of Mattress Support Platform into which Lifting Pole fits.
- 2) The Lifting Pole has cutouts at the base which must locate across the bar, which is welded at the base of each vertical tube.
- 3) Insert the Lifting Pole vertically downwards into chosen vertical tube (it should be installed on the side, where patient gets out of the Bed) and lower it until it reaches the base of the vertical tube.
- 4) Position the top of Lifting Pole so that it is above the centre of ELBUR nursing Bed. Rotate the Lifting Pole from side to side until the cutout locates in the bar in the vertical tube. It should not be possible now to rotate the Lifting Pole. If it does rotate, lift the Lifting Pole up a little, then lower it again and attempt to locate the cutout on the bar.







- 5) Strap should be placed over the top of the Lifting Pole so its rubber pad (A) rests on the top of the Lifting Pole between two lugs (B and C) on the top of the horizontal part of the Lifting Pole.
- 6) To increase the length of the Strap, ease a short length of the loose end of the Strap (D) through the plastic retaining clip (E) [refer to pictures on the next page].
- 7) Push the Strap (F) through the buckle (G) until there is a small loop (H). Pull the other end of the Strap (I) back through the buckle [refer to pictures on the next page].  
Repeat this operation until the Strap is the required length (to shorten the Strap length, reverse the procedure).
- 8) After adjusting the Strap, ensure it threaded as shown below.





## 8.0. Movements of ELBUR Nursing Beds

<b>WARNING</b>	
	<i>This bed is not adapted for patient's transport, but it can be moved within patient room for cleaning or patient access. Remember to unplug the Power Supply Lead before relocating the bed and make sure it will not be rolled over or damaged in other way.</i>
	<i>ELBUR Care Bed with a patient may only be moved in an emergency situation. This activity should be then performed by two people due to force the propulsion, but above all to ensure necessary safety. Patient has to stay in flat position and Care Bed should be adjusted in the lowest height.</i>
	<i>Do not move the bed when the Power supply lead is plugged in to the mains supply socket.</i>
	<i>All functions must be tested and approved after moving or repositioning by a competent person.</i>





Before moving the Bed to a different location follow safety rules indicated below:


- 1) Ensure the Mattress Support Platform is at its lowest, flat and horizontal position.
- 2) Disconnect the Power Supply Lead plug from the mains supply and secure it against being crushed or dragged over the floor.
- 3) Ensure that Side Rails are latched in the upper position.
- 4) Secure the Handset, Power supply lead and all cables against any damage.
- 5) Unlock the castors brakes and move the Bed.

After moving the bed to a new position, lock all castors, visually check the Mains power cable and if everything is fine, plug it in to a separate socket. Always make sure it is mounted and routed in such a way that it will not be rolled over or strained during the operation of the bed.

At the end it is necessary to perform the full functionality check described in the next chapter.

## 9.0. Functionality Check

<b>WARNING</b>	
	<i>Functionality check must be carried out by suitably trained and qualified personnel, knowledgeable in handling the bed, after assembly and before putting it into operation.</i>
	<i>Functionality check must not be carried out with the bed occupied.</i>
	<i>The Power supply lead should be plugged into the separate socket during tests and use.</i>
	<i>Position the Bed where is enough space for operating it through its full height range without any chance of blocking or entrapment – check for obstructions around, above and below the bed frame (it cannot be stopped by any obstacles as bedside lockers or windowsills).</i>

<b>ATTENTION</b>	
	<i>Check all cable ties have been removed (there is one cable tie for attaching Back Rest to MSP Head Section and one cable tie for attaching Leg Rest Section to MSP Leg Section for transport).</i>

- 1) Check all bolts, nuts, screws and other fasteners are present and correctly tightened.
- 2) Examine all cables for risk of crushing or deterioration – ensure that they cannot be damaged or overstretched.
- 3) Plug the Power supply lead into a mains supply socket and carry out a full test of all electrical bed positioning functions using the Handset:
  - raise the Bed to the full height,
  - lower the Bed until it stops,
  - raise and then lower the Back Rest to its end positions,
  - raise and then lower the Leg Rest to its end positions.

If the ELBUR Care Bed is configured with a handset other than the Standard version (Comfort or Trendelenburg), rest of available functions must be also checked.

There should be no strange noises from drive units when adjusting the height of the Mattress Support Platform or the inclination of its sections. The adjustment should go seamlessly and in accordance to markings on the front side of the handset, indicating specific functions.






Check also the appropriate operation of two rastomats (telescopic fitting assembled in the Foot End for manual adjustment of the Lower Leg Rest). ELBUR PB 325 does not contain them in the standard configuration.



- 4) Check the correct function of the castors and their brakes.
- 5) Check that Side Rails on both ends of the bed are at the same level and are firmly assembled, secured. Check their safe operation and make sure they

are locked in appropriate way when they are in the upper position. Ensure they work properly on each side of the bed.

- 6) Check the appropriate work of the Lifting Pole:
  - make sure the Lifting Pole does not rotate from side to side.
  - ensure the top of the Lifting Pole is over the centre line of the bed.
  - make sure that the rubber pad on the Lifting Pole Strap is located between the lugs on the top of the Lifting Pole.
  - inspect the Strap for any damage or fraying.
  - ensure the Strap buckle is secured correctly.
- 7) Check all other bed accessories, paying particular attention to their fasteners and moving parts.

## 11.0. Cleaning and Disinfection

<b>WARNING</b>	
	<i>The bed must be cleaned and disinfected before it is re-used by another patient or in any other situation that requires it.</i>
	<i>Before beginning the cleaning and disinfection procedure, disconnect the power supply lead from the power socket.</i>
	<i>Never use scouring agents, abrasive cleaning agents, corrosive, caustics, strong acids, detergents containing highly concentrated alcohol, phenol-based disinfectant solutions or other materials that could damage the coating and the surface of the bed parts and alter the structure of behaviour of the wooden or plastic components.</i>
	<i>The Bed must not be cleaned in automatic bed washer or with high-pressure or steam cleaner, as liquid penetrates into the electrical components could result malfunctions and danger. Protect those components from moisture.</i>
	<i>All functions must be tested and approved after cleaning or disinfection actions by a trained and qualified personnel. On any suspicion of the intrusion of moisture into the electrical components, disconnect the mains plug immediately and do not re-establish the connection. Put the bed out of operation immediately, attach an appropriate visible warning label and contact the manufacturer.</i>

<b>ATTENTION</b>	
	<i>Elbur cannot be liable for any damage or risk of damage if inappropriate cleaning or disinfectant agents are used.</i>
	<i>Observing the instructions described in this chapter will retain the usability of the ELBUR Nursing Bed for a long time to come and will keep its nice appearance.</i>





Cleaning and disinfecting procedure:

- 1) Empty the nursing bed - remove the mattress and all easily detachable accessories.
- 2) Adjust the Mattress Support Platform to the highest position and adjust the position of the Back Rest and Leg Rest to provide access for cleaning all parts of the frame sections.

- 3) Disconnect the bed from the mains supply.
- 4) Lock all bed castors.
- 5) Clean / disinfect the bed by wiping all rigid parts with a soft, damp cloth (not drenched) with a mild household disinfectant, suitable for varnishes and synthetics (only gentle, not aggressive agents should be used in order to maintain the material resistance).

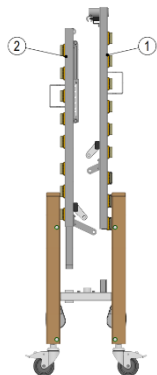
Before start using the bed again, carefully check the power cord plug and all electrical components for residual moisture or any other damage or risks.

## 12.0. Disassembly

<b>WARNING</b>	
	<i>Disassembly must be carried out by suitably trained and qualified personnel in an uncluttered area. Children and pets should be kept away.</i>
	<i>Do not move the bed when the Power Supply Lead is plugged in to the Mains supply socket.</i>
	<i>If the bed has become soiled or contaminated during use refer to cleaning and disinfection instructions before perform dismantling process.</i>
	<i>Extreme caution must be taken when moving the bed on the TLSU Transport Bracket to prevent the Bed from tipping over or moving unexpectedly.</i>




- 1) Apply the brakes on all four castors.
- 2) Remove all accessories and easily detachable equipment installed on the bed (Lifting Pole, Side Rails) and put them on side or pack into carton boxes.
- 3) Lower the Mattress Support Platform to its lowest, horizontal position.
- 4) Lower the Back Rest and Leg Rest to their flat positions and attach cable ties to secure them to the MSP Head and Foot Ends accordingly.
- 5) Unplug the Power supply lead from the mains supply.
- 6) Disconnect cables from the Control Box (the Powers Supply Lead and cables from the: Leg Rest Actuator, Main Lifting Actuators and Handset).
- 7) Dismantle the Leg Rest Actuator and Back Rest Actuator with fitted Control Box from the Mattress Support Platform.
- 8) Pack disassembled drive components into carton box and put it on side.
- 9) Unscrew two headed thumb screws (or 2 clamping levers depends on the configuration) and dismantle the Bed End from the MSP Head End. Repeat this procedure in the MSP Foot End.
- 10) Insert the Bed Ends into the TLSU Transport Brackets and tighten the head knobs by hand (or with grubs screws using Allen key).
- 11) Dismantle the Mattress Platform Support Head End from the Mattress Support Platform Foot End - unscrew two headed thumbs screws on the middle of the bed, on it both sides.

- 12) Lift the MSP Foot End (2) and slide its tubes down into the short uprights on the TLSU Transport Brackets.
- 13) Lift the MSP Head End (1) and slide it down onto the tall uprights on the TLSU Transport Bracket.
- 14) Place the carton box with disassembled drive components between MSP frames located on the Transport Bracket.
- 15) Place the Lifting Pole in the vertical tube welded to one part of the TLSU Transport Bracket.
- 16) If not in use, the ELBUR Care Bed should be stored in clean, dry and well-ventilated location - protect the disassembled Bed from mould, rust or other destruction under external influences before re-use. Wrap the bed and its accessories so that the coating and all components are not damaged. Technical specifications presented in the first chapter for each bed model contain guidance of operating and storage conditions.




## 12.0. Troubleshooting

### WARNING

	<i>Minor defects and problems may be solved by properly trained and qualified personnel – however you should never repair the ELBUR Care bed yourself, without having the appropriate knowledge and experience in its operation.</i>
	<i>Do not attempt to open, repair or modify any electrical parts under no circumstances. It could be fatal!</i>
	<i>All functions must be tested and approved by a competent person after troubleshooting.</i>



### ATTENTION

	<i>Even when the ELBUR Care Bed is used properly, technical problems may occur. In this case, always contact your distributor or Elbur Customer Service.</i>
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



DEFECT	POSSIBLE CAUSES	SOLUTION
Adjustment functions are not active (operator cannot adjust height or angle of Mattress Support Platform sections)	The Power supply lead is not plugged into the mains supply or is not plugged into the Control Box	Plug in the Mains power cable
	The Actuator cables are not correctly plugged in at both the Actuator and the Control Box or the Handset is not plugged into the Control Box	Check the plug-in connection in Actuators and Control Box

DEFECT	POSSIBLE CAUSES	SOLUTION
	Adjustments functions are locked on the Handset	Unlock an appropriate function
	No voltage in the socket	Check the mains socket or fuse box (electrician!)
	The operating time or Safe Working Load exceeded	Reduce the load, follow the instructions from this manual and values on labelling, allow the drive system to cool down
	Actuators or Control Box or Handset defective	Notify the operator or Elbur Customer Service
Actuators stopped suddenly during adjustment	The operating time or Safe Working Load exceeded	Reduce the load, follow the instructions from this manual and values on labelling, allow the drive system to cool down
	Obstacles in the adjustment range	Remove all items, obstacles which interfere with the adjustment functions
Individual Actuators run in one direction only	Actuator, Control Box or Handset defective	Notify the operator or Elbur Customer Service
Opposite functions when operating the Handset	Mixed cables connection in the Control Box	Check the plug-in connection in the Control Box, follow the instructions from this manual and the label on the Control Box or notify the Elbur Customer Service
Castor does not rotate or swivel	Brake applied	Release the brake
	Castors unclean	Clean castors, remove all obstacles
	Castors damaged	Notify the operator or Elbur Customer Service
Lower leg rest does not adjust	Telescopic fittings damaged	Notify the operator or Elbur Customer Service



## 13.0. Maintenance

WARNING	
	<i>Maintenance must be carried out only by or under supervision of suitably trained and qualified personnel or professional persons such as electricians or electro-technically instructed persons who are knowledgeable of the relevant regulations and are able to recognize possible risks and hazards. Failure to do so may result in serious injury or in inappropriate and dangerous operation of the product.</i>
	<i>ELBUR Care Bed must be checked and serviced on regular base, once yearly as a minimum, before every re-use and after every repair.</i>



	<i>More frequent inspections should be carried out when the product is subjected to heavy use or aggressive environments, or where is required by local regulations.</i>
	<i>Failure to carry out periodic checks, or continuing to use the product if a fault is found, may compromise the safety of both the patient and user. Preventive maintenance can help to prevent any accidents.</i>
	<i>ELBUR Care Bed must not be serviced or repaired while it is occupied by the patient or the person performing the maintenance.</i>
	<i>All functions must be tested and approved after service actions by a competent, suitably trained and qualified personnel.</i>
	<i>If any damage, performance issue or cause for concern is noted during the inspection, the bed should be immediately withdrawn from use and marked as out of service. The identified problems should be communicated to the local distributor or Elbur company directly.</i>

### **ATTENTION**

	<i>When it is necessary service technicians will receive circuit diagrams, parts list with description, calibration instructions and other needed information from the manufacturer</i>
	<i>Elbur sp. z o.o. sp.k. is not liable for damage caused by the lack of or improper service.</i>

Medical devices must be inspected regularly in terms of safety according to the requirements specified by the manufacturer and the relevant technical standards. Such service inspections facilitate the maintenance of the highest possible level of safety, prevent a potential risk of component wear and deterioration of product operating parameters, and the ELBUR Care Beds to remain trouble-free for years.

In order to ensure the safe use of ELBUR Care Beds and to extend their lifetime while maintaining the basic functionality, the company *Elbur sp. z o.o. sp.k.* as the manufacturer, specifies an technical inspection interval, which should be executed at least once annually, before passing on to a new user and after every repair.

Also, daily visual inspection by a competent person is strongly recommended. The first part of the Inspection Protocol provided on the following pages addresses this type of test.

### Inspection Protocol for ELBUR Care Beds

(Form Number: PSF-08.9-02 ; date of issue: 31.03.2022)

<b>Customer Name / Medical Facility</b>			
<b>Address</b>			
<b>Model designation</b>	ELBUR PB _____		
<b>Reference Number</b>			
<b>Serial Number</b>			
<b>Electrical appliance class</b>	I <input type="checkbox"/>	II <input type="checkbox"/>	
<b>Date of manufacture</b>			
<b>Manufacturer</b>	Elbur sp. z o.o. sp.k.		
<b>Type of inspection</b>	First Inspection <input type="checkbox"/>	Planned Preventive Maintenance <input type="checkbox"/>	Repair Service <input type="checkbox"/>
<b>Testing equipment (name, type, SN)</b>			

<b>1. Visual Inspection</b>				
<b>No.</b>	<b>Description</b>	<b>YES</b>	<b>NO</b>	<b>N/A</b>
1.	Are the Name Plate and all Warning/Information labels present, readable and easy to understand?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Is the Instruction for Use available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Are the Maximum Patient Weight and Safe Working Load observed and not exceeded?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	Are the Mattress Support Platform, Back Rest and Leg Rest sections, Bed Ends / Scissor Lift, Side Rails and accessories (e.g. Lifting Pole, Bed Lever) in the perfect condition (without any signs of damage, deformation or wear)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Is the powder coating of metal parts without any scratches or damage? Is welding without any cracks, craters, splatter? Are all sharp edges deburred?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Are all fasteners, fittings, fixtures, nuts, bolts etc. tight, secure and durable as appropriate?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Are all plastic end caps complete and without any signs of damage or wear?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	Is the Mattress Support Platform secured tightly to the Bed Ends / End Boards using plastic headed thumb screws, clamping levers or grub screws?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Is screw connection for Mattress Support Platform Head End and Foot End appropriate and safe?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	Is the Mattress Support Platform base (wooden / metal) without any objections and signs of damage? Is it stable, complete and well-assembled? Are MSP sections (Back Rest and Leg Rest) fitted and adjusted properly in the safe manner?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Are castors without any sign of damage, wear or contamination?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Are the Power Supply Lead and all other electrical cables secured, connected correctly (fully inserted to appropriate slots/sockets) and routed to prevent damage by pinching or crushing, especially between moving parts?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	Are all cables secured against accidental damage, non-intended running over, wringing and bringing out?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>


<b>1. Visual Inspection</b>				
<b>No.</b>	<b>Description</b>	<b>YES</b>	<b>NO</b>	<b>N/A</b>
14.	Does the Power Supply Lead or Handset show any sign of damage or wear?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.	Are markings on the Handset easy to understand and readable?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.	Are Control Box with Back Rest Actuator and Leg Rest Actuator installed in the right direction, according to instructions in this manual and label underneath the Mattress Support Platform?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.	Are all Actuators mechanically secured in appropriate way with quick-release bolts or with bolts and clips?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18.	Are housings of Control Box, Handset and Actuators sealed and without any sign of damage?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19.	Are wooden components (End Boards, Side Rails) in the perfect condition and without any sign of damage, wear?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.	Is the Lifting Pole properly located and securely fixed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.	Is the Triangle Handle place between its moving lugs and is the Strap without any sign of wear?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22.	Is the Bed Lever assembled in the fitted zone indicated in the accessory instruction manual?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23.	Are there any other signs of damage or excessive wear?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24.	Is the area around, above and below the bed clear of possible obstruction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>2. Performance check</b>				
<b>No.</b>	<b>Description</b>	<b>YES</b>	<b>NO</b>	<b>N/A</b>
1.	Is it possible to operate the ELBUR Care Bed as per its intended purpose without unexpected noises or movements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Are all electrical positioning functions, available to achieve using the Handset, working properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Can the bed be adjusted within the specified range (height of MSP and inclination of its sections) indicated in this instruction manual, without any obstacles?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>2. Performance check</b>				
<b>No.</b>	<b>Description</b>	<b>YES</b>	<b>NO</b>	<b>N/A</b>
4.	Is it possible to lock/unlock individual functions on the Handset with a special Locking Key?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Are drive units working properly (allow the smooth operation without any abnormal noises)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	Are the Mattress Support Platform and Bed Ends mechanically sound i.e. without any cracking at welds during position adjustment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Is it possible to perform quick lowering of the Back Rest in the emergency situation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	Is it possible to adjust the Lower Leg Rest smoothly and safely, either electrically and manually (lock/unlock of two rastomats in several positions)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	Are castors operating correctly, including the brakes?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	Is there any risk of entrapment or other injury of the bed user?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Are the Side Rails without any sign of damage, breakage or wear?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Is set of Side Rails appropriately assembled and firmly seated in accordance to its instructions? Are they operating smoothly and in the safe manner? Is it simple to release Side Rails and lock them in the upper position safely?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	Is the difference between Side Rails, and between lower Side Rail and the Mattress Support Platform, less than 12 cm?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.	Is the distance between Side Rails and Bed Head less than 6 cm, and between divided Side Rails less than 6 cm, and between Side Rails and Bed Foot End less than 6 cm or greater than 32 cm?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.	Is the mattress fitted correctly without any unacceptable gaps?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.	Is the distance between top of the mattress and the top edge of the top Side Rail at least 22 cm?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.	Are all accessories fitted in line with the accessory manufacturer instructions and is their using safe?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. Electric measurements (according to current EN 62353 standard)				
No.	Description	YES	NO	N/A
1.	Protective earth resistance: measured value less than or equal to 0,3 $\Omega$ $R \leq 300 \text{ m}\Omega$ (applied only for Class I ME Equipment) Result:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	Device leakage current: Direct method (for Class I ME Equipment): measured value less than or equal to 0,5 mA $I \leq 500 \mu A$ Result:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Direct method (for Class II ME Equipment): measured value less than or equal to 0,1 mA $I \leq 100 \mu A$ Result:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	Insulation resistance (for Class II ME Equipment): measured value greater than or equal to 7 M $\Omega$ $R \geq 7 \text{ M}\Omega$ Result:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>


Evaluation				
Results of Inspection		Date of inspection	Inspected by	Signature
<input type="checkbox"/> PASS	<input type="checkbox"/> FAIL			
In the event the Inspection result did not pass and ELBUR Care Bed did not meet the safety requirements			<input type="checkbox"/> Repair	
			<input type="checkbox"/> Take out of use	
			<input type="checkbox"/> N/A	
Additional comments / Description of defects (if applicable)				
Next Inspection Date				

ATTENTION	
	<i>Elbur provides the Inspection Protocol for ELBUR Care Beds in every Instruction for Use. It can also be downloaded from our website: <a href="http://www.elbur.eu">www.elbur.eu</a>. The Inspection Protocol should be kept on file and serves as evidence report of the performed service.</i>

## 14.0. Electromagnetic Compatibility statement

Guidance and manufacturer's declaration – Electromagnetic emissions		
The ELBUR Care Bed is intended for use in the electromagnetic environment specified below. The customer or the user of the bed should assure that it is used in such an environment.		
Emission test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11 (partly)	Group 1	The ELBUR Care 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.
RF emissions CISPR 11 (partly)	Class B	
Harmonic emissions IEC 61000-3-2	Class A	
Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies	

Guidance and manufacturer's declaration - Electromagnetic immunity			
The ELBUR Care Bed is intended for use in the electromagnetic environment specified below. The customer or the user of the bed should assure that it is used in such environment.			
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance
Electrostatic discharge (ESD)  IEC 61000-4-2	± 6 kV contact  ±8 kV air	± 6 kV contact  ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient / burst  IEC 61000-4-4	± 2kV for power supply lines  ±1kV for input/output lines	± 2kV for power supply lines  Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	±1 kV line(s) to line(s)  ±2 kV line(s) to earth	±1 kV differential mode  Not applicable	Mains power quality should be that of a typical commercial or hospital environment.
Voltage Dips, short interruptions and voltage variations on power supply Input lines IEC 61000-4-11	<5% $U_T$ (>95% dip in $U_T$ ) for 0,5 cycle 40% $U_T$ (60% dip in $U_T$ ) for 5 cycles 70% $U_T$ (30% dip in $U_T$ ) for 25 cycles <5% $U_T$ (>95% dip in $U_T$ ) for 5 sec	<5% $U_T$ (>95% dip in $U_T$ ) for 0,5 cycle 40% $U_T$ (60% dip in $U_T$ ) for 5 cycles 70% $U_T$ (30% dip in $U_T$ ) for 25 cycles <5% $U_T$ (>95% dip in $U_T$ ) for 5 sec	Mains power quality should be that of a typical commercial or hospital environment. If the user of the ELBUR Care Bed requires continued operation during power mains interruptions, it is recommended that the bed be powered from an uninterruptible power supply.
Power frequency (50, 60 Hz) magnetic field  IEC 61000-4-8	3 A/m	3 A/m	The bed power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.
Note: $U_T$ is the a.c. mains voltage prior to application of the test level.			

<b>Guidance and manufacturer's declaration - Electromagnetic immunity</b>			
The ELBUR Care Bed is intended for use in the electromagnetic environment specified below. The customer or the user of the bed should assure that it is used in such environment.			
<b>Immunity test</b>	<b>IEC 60601 test level</b>	<b>Compliance level</b>	<b>Electromagnetic environment-guidance</b>
<p>Conducted RF IEC 61000-4-6</p> <p>Radiated RF IEC 61000-4-3</p>	<p>3 V rms 150 kHz to 80 MHz</p> <p>3 V/m 80 MHz to 2,5 GHz</p>	<p>3 V</p> <p>3 V/m</p>	<p>Portable and mobile RF communications equipment should be used no closer to any part of the ELBUR Care Bed including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.</p> <p>Recommended separations distance:</p> $d = 1,2\sqrt{P} \quad 150 \text{ kHz to } 80 \text{ MHz}$ $d = 1,2\sqrt{P} \quad 80 \text{ MHz to } 800 \text{ MHz}$ $d = 2,3\sqrt{P} \quad 800 \text{ MHz to } 2,5 \text{ GHz}$ <p>where 'P' is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and 'd' is the recommended separation distance in metres (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, 'a' should be less than the compliance level in each frequency range 'b'.</p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> 
<p>Note 1: At 80 MHz and 800 MHz, the higher frequency range applies.</p> <p>Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>			
a	<p>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 ELBUR Care Bed is used exceeds the applicable RF compliance level above, the ELBUR Care Bed should be observed to verify normal operation.</p> <p>If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the ELBUR Care Bed.</p>		
b	Over the frequency range 150 kHz to 80MHz, field strengths should be less than 3 V/m		



### Recommended separation distance between portable and mobile RF communications equipment and the ELBUR Care Bed

The ELBUR Care Bed is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled.

The customer or the user of the ELBUR Care Bed can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the ELBUR Care Bed as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter [W]	Separation distance according to frequency of transmitter [m]		
	150 kHz to 80 MHz $d = 1,2\sqrt{P}$	80 MHz to 800 MHz $d = 1,2\sqrt{P}$	800 MHz to 2,5 GHz $d = 2,3\sqrt{P}$
0,01	0,12	0,12	0,23
0,1	0,38	0,38	0,73
1	1,20	1,20	2,30
10	3,79	3,79	7,27
100	12,00	12,00	23,00

For transmitters rated at a maximum output power not listed above, the recommended separation distance 'd' in metres (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.

### CAUTION



*For reasons of safety and electromagnetic compatibility, use only original electric components from Elbur that have been released for the ELBUR Care Bed model in order. The use of non-approved accessories may result in loss of bed functionality, increased emissions or reduced immunity of the equipment.*

*It is still possible that the operation performance is influenced by electromagnetic fields like those of cell phones, power generators of high power energy sources, despite sample representing family products of ELBUR Care Bed was tested on electromagnetic compatibility and complied to the requirements of EN 60601-1-2 standard.*

*On the other hand, it is also possible that the electronics of the bed can influence other electronic devices.*



*When this bed is used adjacent to other electronic devices, the user should observe that equipment to verify its normal operation.*

## 15.0. Disposal

### ATTENTION



*If the ELBUR Nursing Bed is to be scrapped, the synthetic and metallic parts are to be separated and disposed of properly. The operator must ensure that all components of the Bed are to be disposed of are not contaminated.*



*Contact Elbur Customer Service or your local authority for advice on proper disposal.*

ELBUR Care Bed is made of metal, wooden and plastic components, contains also electronic parts and electric cables. In the event of the disposal of materials from the bed, end-of-life parts must be disposed of in accordance with current, local environmental legislation.

ELBUR Care Beds are classified as industrial electrical equipment (type b2b) in accordance with the WEEE Directive 2012/19/EC. All replaced electrical and electronic components of the electrical adjustment system must be treated as electric scrap and properly disposed according to the above-mentioned directive.

## 16.0. Warranty

### CAUTION



*Damage to your product caused by improper use or lack of maintenance will cause the warranty to laps.*



*Unauthorised technical changes to the product voids all warranty claims.*

The manufacturer gives a guarantee of 36 months for a perfect functioning ELBUR Care Bed. It is based normal, intended use and maintenance as described in this manual.





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