

# Enigma<sup>care</sup>

## MEDICAL BEDS



### ENB-301 SERIES



Comfort  
and safety  
Excellence

### EnigmaCare

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This nursing bed is a bed specially designed for hospitals, nursing homes, assisted living facilities, outpatient clinics, and in home health care.

These beds have special features both for the comfort and well-being of the patient and for the convenience of health care workers. Common features include adjustable height for the entire bed, the head, and the feet, adjustable side rails, and electronic buttons to operate both the bed and other nearby electronic devices.

This operating manual will help you get to know the function of our nursing beds and, in addition, describes • assembling the nursing bed.

- operating the adjustment controls
- care and maintenance of the nursing bed

Operation and construction of the beds is explained using photographs of the ENB-301 nursing bed version. If there are differences between this and other bed versions in either operation or construction, the text will draw your attention to this.

The manual has been drawn up using information available at the time of printing with regard to construction and operation of the nursing bed. We reserve the right to make changes due to technical improvements.

If you have any other questions about this nursing bed, please contact your supplier.



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## 1.0 Safety instructions

### 1.1 Symbols used

This instruction manual contains the following symbols which are used to highlight special hazards in dealing with the nursing bed or information for simplifying handling of the nursing bed.



Caution! This symbol identifies safety information which notifies you of hazards when dealing with the product



NOTE You will also find information about dealing with the product under this symbol

### 1.2 Proper use

**Enigma-Care** nursing beds are intended for continuous use instead of household beds. They are intended for use in alleviation or compensation of a handicap or inability and for making the working conditions of nursing personnel easier.

**Enigma-Care** nursing beds can also be used for the diagnosis, treatment or observation of patients under medical supervision/ instructions in accordance with DIN EN 60601-2-38 in the home care or in the nursing home sectors (or similar institutions and).

**Enigma-Care** nursing beds are only approved for use by persons of over 12 years of age due to their complexity.

The nursing beds are intended for use in:

- home nursing
- nursing home and rehabilitation institutions



## 1.3 General information

Before assembling or using the nursing bed, please read this operating manual carefully through!

Ensure that:

- the complete operating manual is read by all persons entrusted with the setting up, operation or maintenance of the nursing bed.
- all persons entrusted with the setting up, operation or maintenance of the nursing bed have access to this operating manual at all times.

Any damages resulting from nonobservance of this operating manual are excluded from the guarantee



### Limitations of use!

- Patients taller than 190 cm should not use this nursing bed



### Accident hazard !

- Always check that the cabling is in perfect working order and that the tension protection is functioning before use
- Only use the nursing bed for its proper intended use
- Maximum safe working load = see technical specification
- Only use this nursing bed when it is in perfect working order.
- It is imperative that you always rectify any faults which could influence the function and safety of the nursing bed immediately
- Always secure the nursing bed against rolling by engaging the wheel brakes when Unattended !
- Always use all of the wheel brakes on the nursing bed.
- Only use accessories approved by **Enigma-Care**



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## 1.4 Notes on electrical fittings



### **Risk of short-circuit and fire!**

- Always ensure that the mains cable cannot be run over when moving the nursing bed or bedside tables, or by cleaning and lifting equipment such as hoists.
- Always check the cabling for correct positioning before use , jamming or kinking of the cable must be avoided.
- Always remove the mains plug before long periods of non-use.

## 1.5 Notes for nursing personnel, attendants and operator



### **Accident hazard!**

- Do not carry out any medical electrical applications in which the patient is connected intravascularly or intracardially with the medical device whilst the patient is in the nursing bed.
- Do not use the nursingbed in the vicinity of strong electro magnetic fields (for example major medical equipment)
- Always plug the nursing bed mains plug into a separate wall socket
- Route the mains cable to the power supply socket so that no mechanical tension results, and so that it cannot be crushed, bent or run over.
- Please observe the appropriate equipment operating and installation instructions with regard to any additional safety risks that may arise when combining the nursing care bed with other equipment.

Should you have any questions in this respect, please contact your orthopaedic and sanitary supplier or Days Healthcare directly .



### **Accident hazard due to falling out !**

- Always move the nursing bed to the lowest height when unsupervised or for entering or exiting the bed



### **Risk of short-circuit and fire!**

- Before moving the nursing bed , unplug the mains cable and ensure that the mains cable cannot be run over.





- The nursing bed may not be used in surroundings in which it is possible that flammable gases or vapours (e.g. from anaesthetics) are present



## **Danger due to actuator motor overheating!**

- Before adjusting the bed height , ensure that nothing is blocking the full adjustment movement.

## **1.6 Notes on setting up the nursing beds**



### **Injury hazard due to improper assembly!**

- Ensure that all components in the nursing bed have been correctly assembled
- Check that all adjustment options are in perfect working order after assembly.



### **Accident hazard!**

- Only carry out assembly work using suitable tools .
- Only carry out assembly work if you are a competent person who is used to working with the tools required.

## **1.7 Notes on maintenance and inspection**

All inspection work must only be carried out by competent engineers, capable of evaluating the condition status and recognising any possible effects and hazards, due to their specialist training, knowledge and experience in addition to knowledge of all relevant regulations. Always read the relevant chapters thoroughly before carrying out maintenance work. Any damages resulting from nonobservance of this manual are excluded from any guarantee of liability.



### **Always carry out a performance test after maintenance work and inspections!**

- When operating the adjustment motors , ensure that the nursing bed cabling cannot be crushed or overstretched.



**2.0 Nursing bed models**

**ENB-301B-ABS Electric Home Care Bed**



**ENB-301F Electric Home Care Bed**



**ENB-301C Electric Home Care Bed**





### 3.0 TRANSPORT AND STORAGE

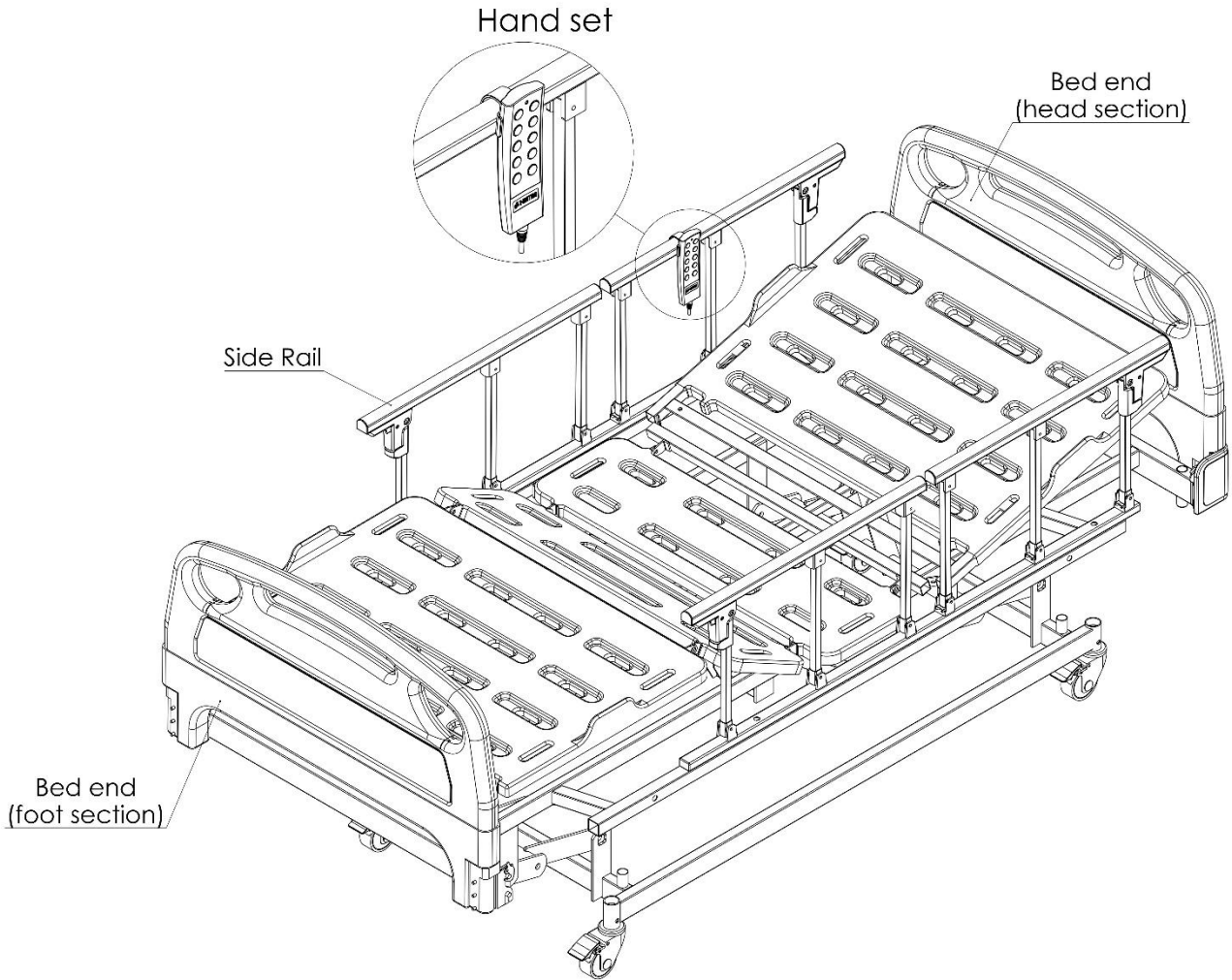
The following conditions should be followed when transporting and storing the bed:

- To save space, the bed should be stored on the transport stand.
- The bed should always be stored on a flat and level floor.
- The bed ends should be set to minimum height.
- If fitted the bed extension should be removed and stored separately.
- Side rail components, if applicable (not including side rails) to be kept in the channels on the bed ends (or stored safely together).
- The brakes should be applied.
- All profiling sections should be secured with hook and loop tape (or similar).
- The bed should be covered to protect it from fluid ingress, dirt, dust etc.
- Beds should not be stored one on top of another.
- Beds should not be stored on their side.
- Ambient temperature: -20°C to +50°C.
- Humidity: 30% - 75% at 30°C – not condensing.

- The bed is not intended for patient transport, it is not to be moved out of the room it is located in with a patient occupying the bed – Risk of patient/carer injury. If the bed is to be moved within the room with an occupant in the bed a risk assessment in line with local health and safety policy is to be conducted in order to ensure that neither staff nor patients are put at risk when moving the bed; this is dependent on the situation and load on the bed.
- If transporting the bed utilities on its transport stand ensure a risk assessment in line with local health and safety policy is undertaken to ensure that the staff are not put at risk when moving the bed, especially in regards to moving up/down inclines and uneven surfaces.
- The bed must never be moved on the transport stand with the locking collars missing or in the unlocked position – Risk of bed collapse.
- To prevent the risk of cross infection, when moving a bed from an end user's residence, ensure that all activities in relation to the bed are carried out using disposable gloves and that they are then reported and, unless it can be verified that the bed and any associated accessories have been properly cleaned and disinfected prior to collection.
- On the return of a bed from an end user's residence, prior to putting the bed into storage ensure it has been cleaned and disinfected in line with the local infection control policy and/or as defined in page 18 of these instructions for use.



### 4.0 Components

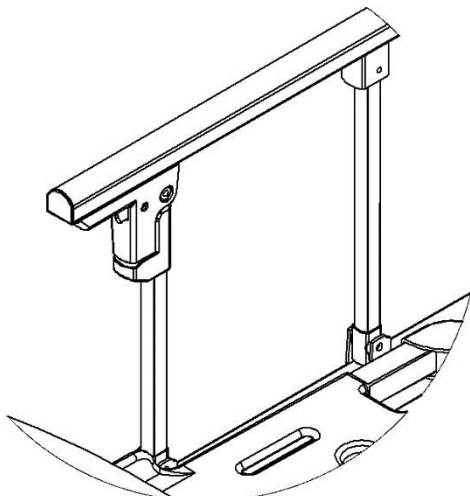


### 5.0 Fittings: bed frame

#### 5.1 Side Rails

When lifting the guardrail : Push up after pressing the red button, The buckle is completed.

When laying off the guardrail : Press the red button and push down to the end

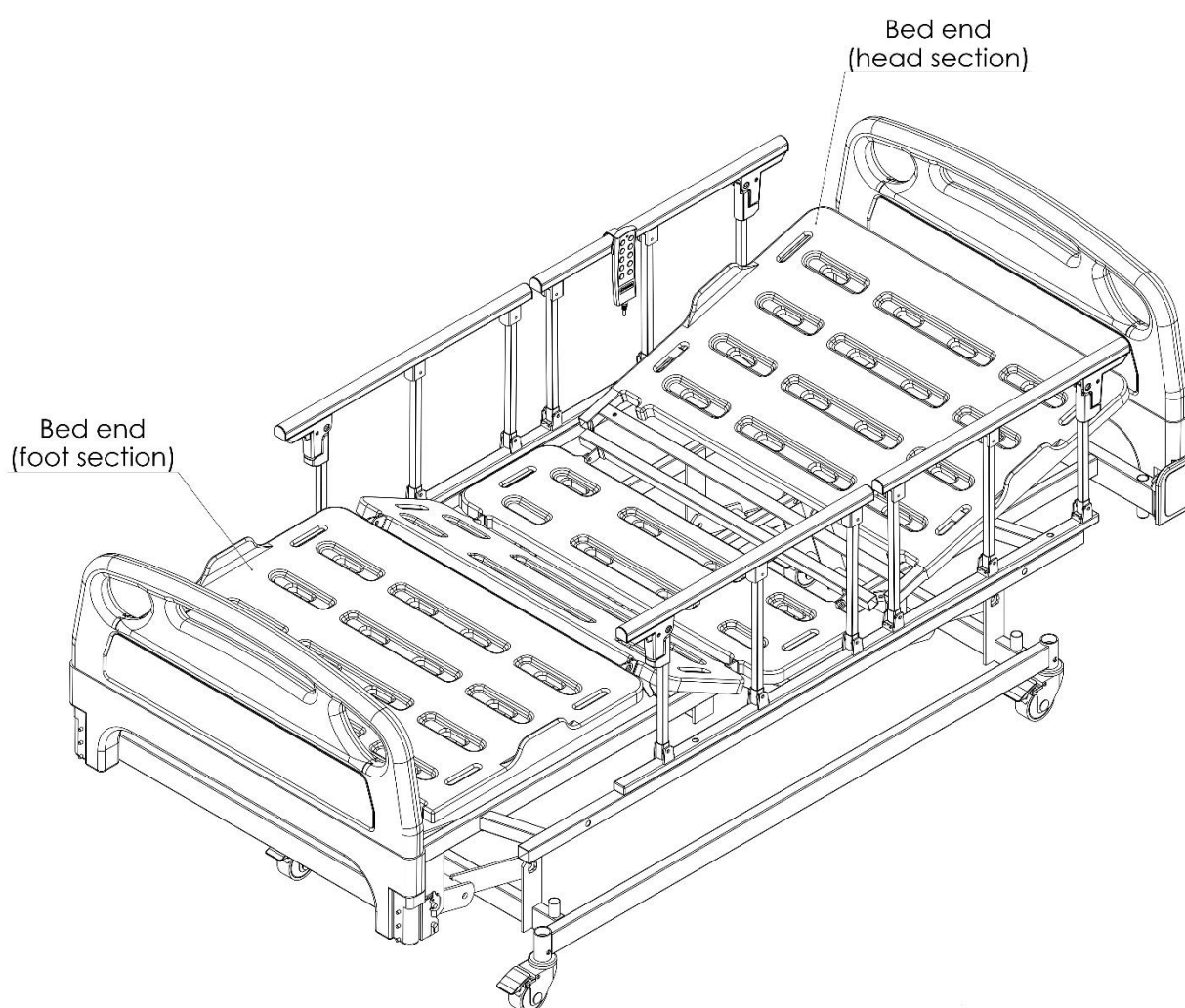


## 5.2 Mattress support

### 4-section separation of mattress support :

The head section can be electrically adjusted up to **75°**

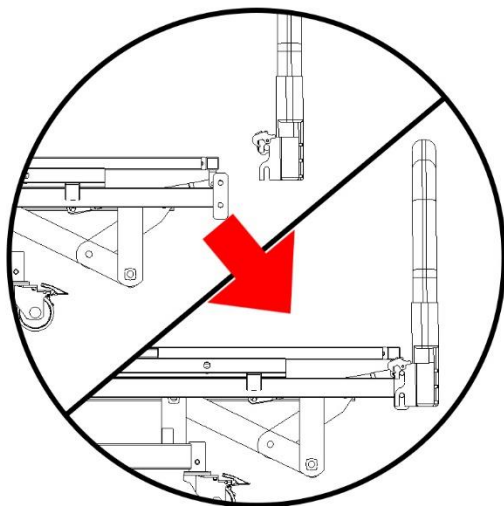
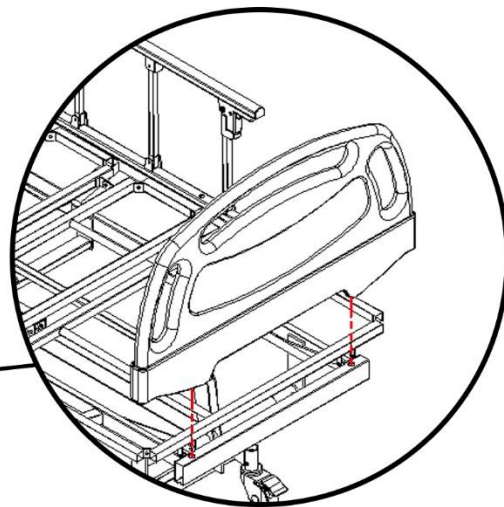
The foot section up to **30°**





### 5.3 Movable head and foot boards

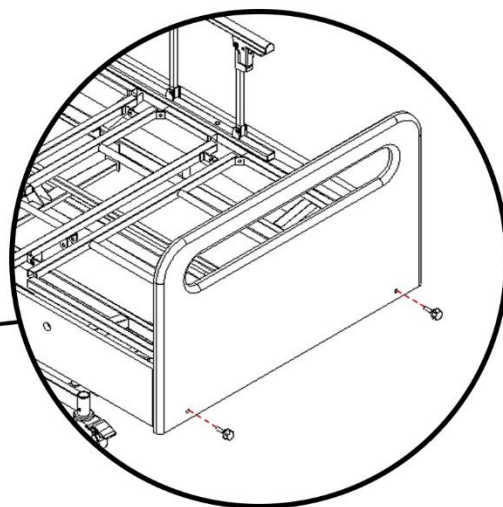
ENB-301B-ABS Electric Home Care Bed



ENB-301F Electric Home Care Bed



ENB-301C Electric Home Care Bed



## 6.0 Fittings: Electrics

### 6.1 Lift motor

The motor lift movement is 40 cm. This enables the nursing bed lying area to be raised from 33 cm to 73 cm.



### 6.2 Hand set

The hand set is used to operate all nursing bed actuator motors.

Operation takes place using the keypad on the front side of the hand set.

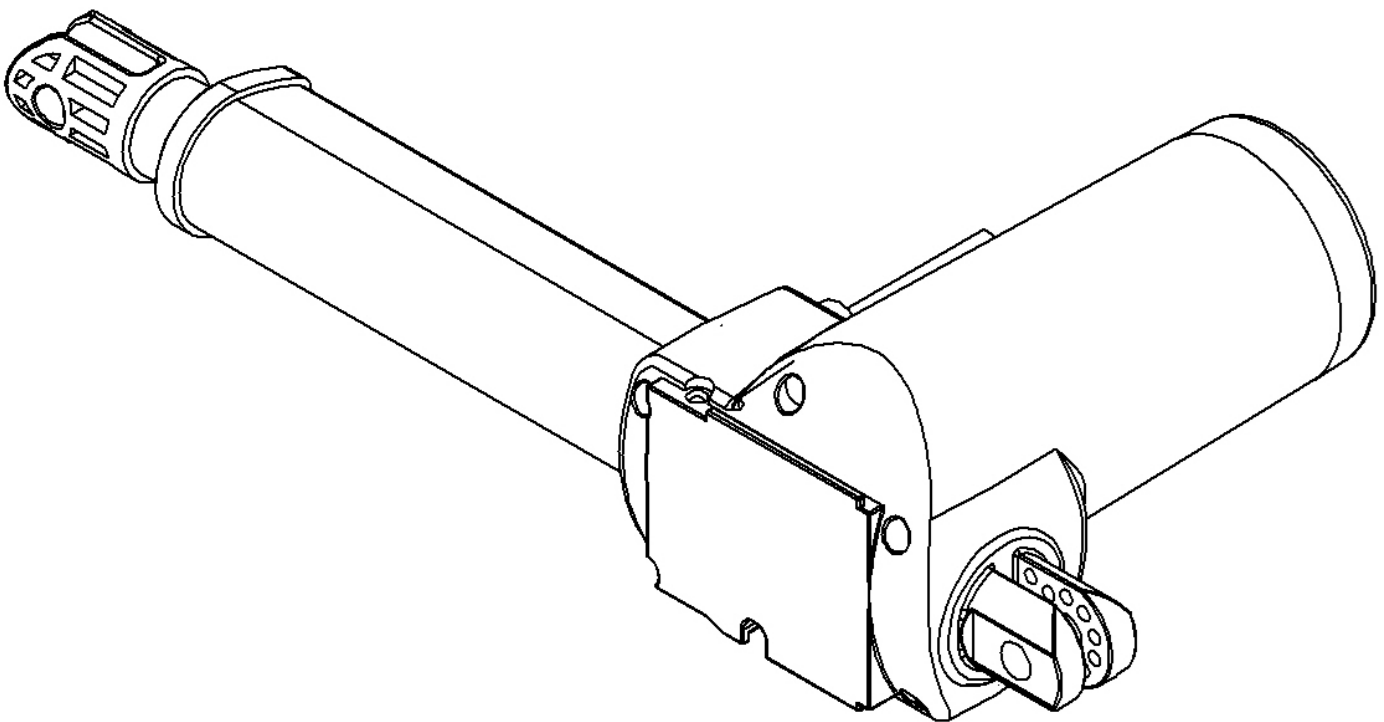


The fixing bracket on the rear of the hand set can be used to hold it in an easily reachable position on the nursing bed.



### 6.3 Mattress support motor

The nursing bed with 4 mattress supports is equipped with three mattress supports motors. They are installed under the support of the mattress. One of the motors is used to adjust the head, and the other motor is used to adjust the feet of the mattress support. There is also one for the height control of the bed.



## 7.0 Setting up the nursing bed

Before commencing assembly of the nursing bed, check the package contents against chapter 4.0 „ Components “. If any faults are apparent or components are missing, please contact Enigma-care or your supplier.



### Trapping hazard!

There is a possible danger of trapping at all joints on the nursing bed and at support points for the mattress support.



### Injury hazard due to improper assembly !

- Ensure that all components in the nursing bed have been correctly assembled.
- Check that all adjustment options are in perfect working order after assembly.



### Accident hazard !

- Only carry out assembly work using suitable tools
- Only carry out assembly work if you are used to working with the tools required.

## 7.1 Connecting the lift motor, hand set

### mattress support motor and accumulator box

When connecting, ensure that:

- The sealing rings (a) on the plug must not be damaged while being plugged in.
- The ribs (b) on the plug must be aligned with the guide grooves (c) on the jack socket.



## 8.0 Operating the nursing bed



### Accident hazard !

- Do not use electrical medical appliances on patients in these nursing Beds
- Do not use the nursing bed in the vicinity of strong electromagnetic fields (for example major medical equipment).



### Trapping hazard!

There is a possible danger of trapping at all joints on the nursing bed and at support points for the mattress support.

When carrying out adjustments, please observe the following points:

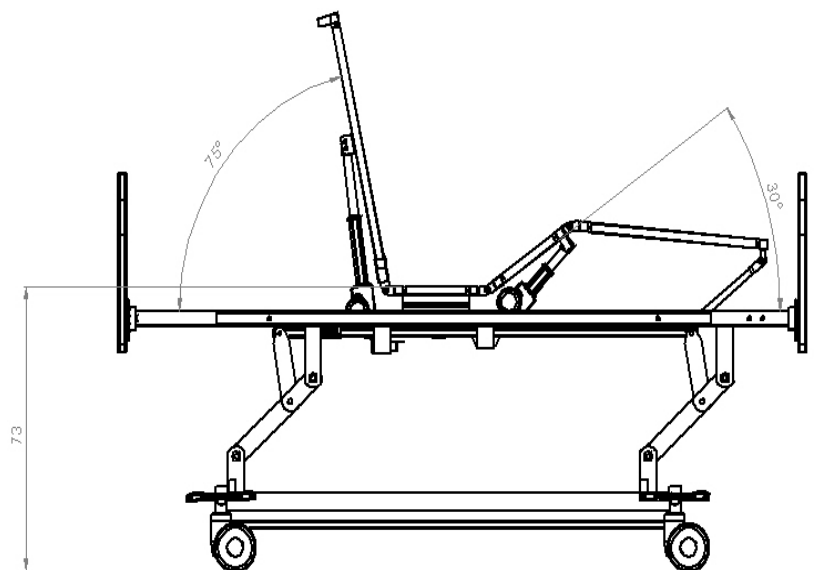
- Before adjusting the bed height, ensure that nothing is blocking the full adjustment movement.
- Always move the nursing bed to the lowest height when unsupervised or for entering or exiting the bed.
- When carrying out adjustments, observe the patient in the bed and the bed's surroundings.

## 8.1 General notes on operation

The adjustment range for the surface height is between 33 and 73 cm.

The head section can be inclined upwards up to 75°.

The footpiece can be inclined by 30°.



## 8.2 Operating the nursing bed adjustments - hand set

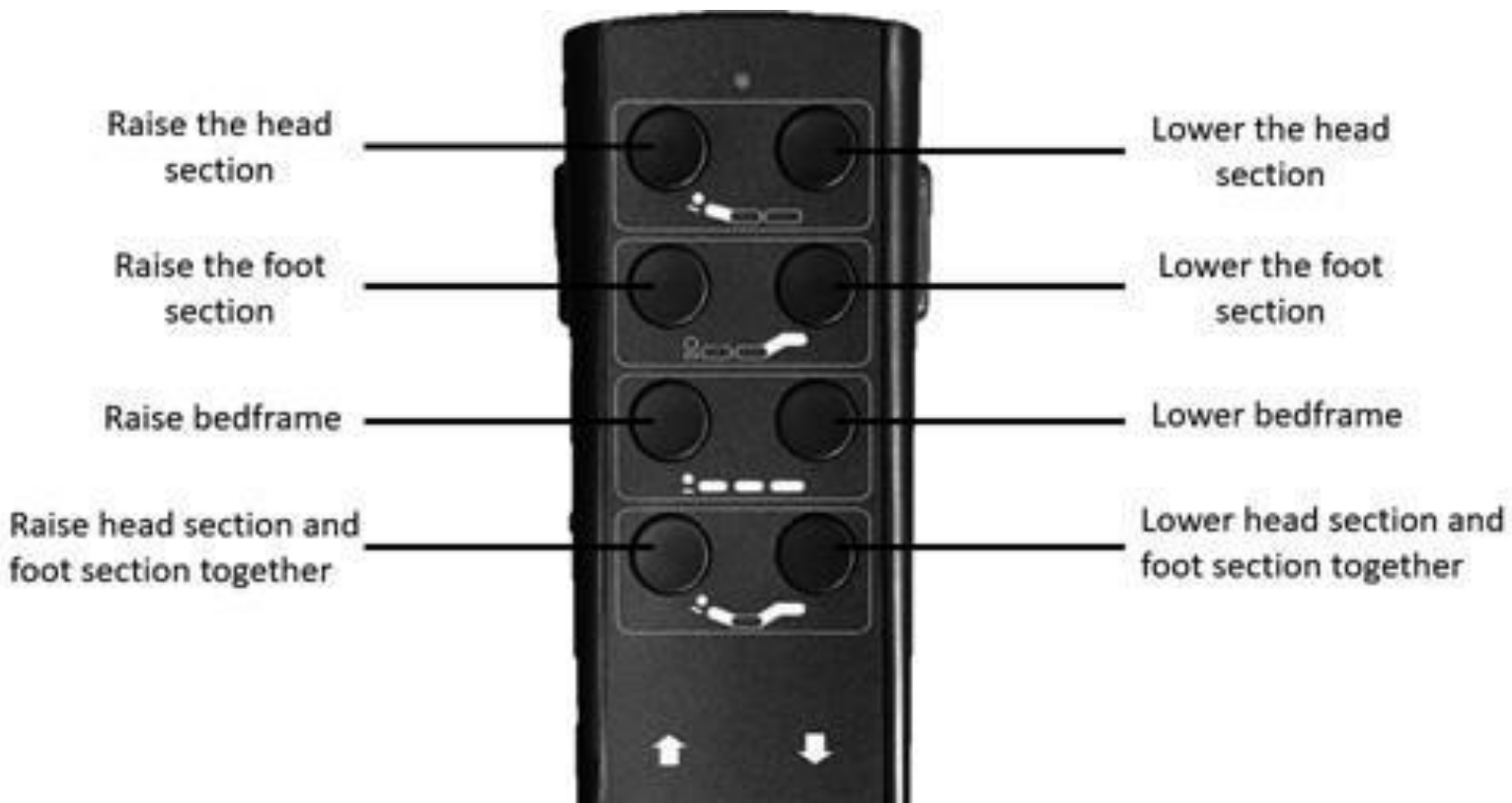
### Hand set signals when operating adjustment keys:

- Indicator lamp illuminates when adjustment key is pressed

### Error messages:

- The indicator lamp does not illuminate when operated = Control unit defective
- The indicator lamp is permanently illuminated without being operated =

Control unit defective



## 8.3 Operating the brakes

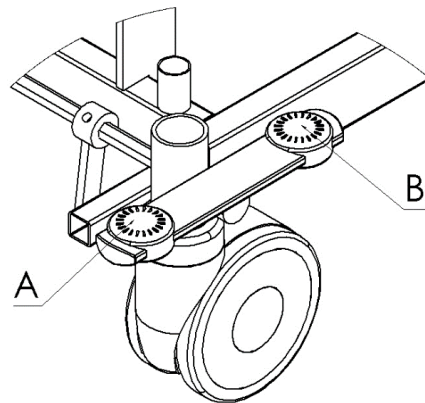
### Danger of crushing !

Before locking, turn the steering rollers to point towards the mattress support under the nursing bed.

#### Central Medical Caster

(A) = Step on A to release steering.

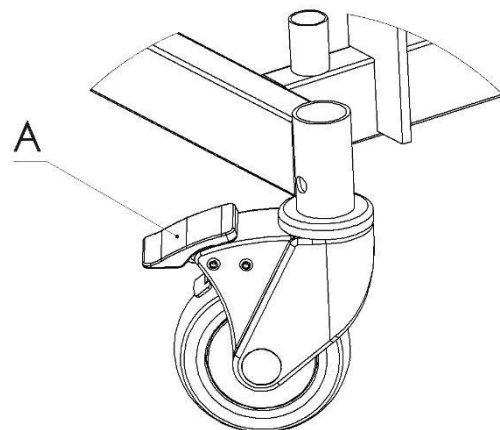
(B) = Step on B to lock steering.



#### Brake medical casters

- When stepping on A, you can lock the casters.

- Release A to provide steering and movement





## 9.0 Cleaning



### NOTE:

- When cleaning this bed, do not use any sharp-edged tools (knives, metal scrapers) or aggressive solvents.
- Do not use high-pressure cleaners to clean this bed.
- Observe the instructions issued with the cleansing agent in order to avoid damage to component surfaces.
- Use damp cloths to carry out cleaning work.
- Only use mild cleansers free of scouring agents for cleaning any metal, wooden or plastic surfaces.



## 10.0 Disposal

To comply with national law, the following instructions are guidelines for the disposal of your product at the end of its life or when it ceases to function economically. Recent legislation on electrical equipment indicates that the equipment must be disposed of in a proper manner.

- The product and /or its components are not to enter the system of landfill sites.
- The product and /or its components are not to be disposed of in domestic household waste.
- The electrical and material parts are to be disposed of as scrap or recycling materials.
- Local waste collection depots are available to advise and dispose of electrical products.
- Batteries which contain liquid acid must be stored and disposed of separately at these depots.
- Please enquire about disposal depots with your local authority.
- Should you require further advice, please contact your supplier or nearest dealer.

