



EuroCare Viscount

Electric Homecare Bed

NURSING BEDS

Introduction

All EuroCare nursing beds are manufactured using the most modern technical facilities to ensure the highest lying and operating comfort possible. Furthermore, the construction has been designed placing great value on simple handling and operation.

The nursing bed described in this manual is constructed to the following standards:

DIN EN1970-2000 (Standard for Nursing Beds) and DIN EN60601-2-38 (Standard for Hospital Beds)

Since the nursing bed motor system has a control system with a clock frequency of > 9kHz, and is mainly driven by motor for short periods, EN55014-1 applied in accordance with EN60601-1-2-36.201.1.4.

A large variety of useful accessories rounds off our range of nursing beds.

This operating manual will help you get to know the function of our nursing bed and in addition describes:-

- Assembling the nursing bed
- Operating the adjustment controls
- Care and maintenance of the nursing bed

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.

NURSING BEDS

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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:

These symbols identify 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:**

EuroCare 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.

EuroCare nursing beds are only approved for use by persons 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 non-observance of this operating manual are excluded from the guarantee.



Limitations of use!

→ Patients taller that 195cm(6'5") should not use this nursing bed.

N.B. An extended bed frame to suit patients up to 219cm (7'1") is available from EuroCare.



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
- → Always lower the nursing bed to its lowest height when not under supervision.
- → It is imperative that you immediately rectify any faults which could influence the function and safety of the nursing bed.
- → 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 your local supplier.

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 & operator



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 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 tensions 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.



Danger to life and injury hazard through crushing!

- → When carrying out adjustments, observe the patient in the bed and the bed's surroundings.
- → If the patient is underweight, ensure that the patient cannot slip down between the mattress and bed rails
- → If the patient is underweight, always use the bed rail protectors supplied by EuroCare.
- → Always ensure that the bed rails are locked in properly



Possible danger through altering patient's position!

- → Always lock all hand set adjustment functions on the hand set which could cause danger to the patient's health if adjusted (consult doctor).
- → Always take into account the patient's condition before locking the adjustment options.



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 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.
- → Avoid using the actuator motors for more than two minutes. Maximum continuous operation of actuator motors = 2 minutes. Minimum pause after 2 minute operation = 18 minutes.
- **♦** *Never use more than two actuator motors simultaneously.*

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 accustomed to using the tools required.



Trapping hazard!

There is a possible entrapment danger at all the nursing bed joints and point for the mattress support. All hazard points on the nursing bed are identified by this symbol.

→ If the mattress support has been folded up, secure it against unintentional unfolding by suitable methods.



Always perform a safety test after assembly work!

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 non-observance 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.



Hazards due to electrical and mechanical faults!

- → Always remove faulty nursing beds from operation and secure against unauthorised use (remove mains plug).
- **◆** *Only use original spare parts supplied by* **EuroCare.**
- → Always carry out the prescribed maintenance work at the intervals stated.
- → Do not carry out any alterations to the electrical or mechanical fittings supplied with the bed unless authorised to do so by the manufacturer. Any manufacturer's guarantee liability is voided by unauthorised alterations.
- → Only carry out maintenance and repair work with suitable tools
- → Do not open electrical components

2.0 Nursing bed model – EuroCare Viscount



3.0 Extent of delivery

All components are packed in cartons in accordance with your order, and packed as a group on a transport pallet or bound up using transport and storage systems to form one transport unit

Before commencing assembly of the nursing bed, check the package contents against the list supplied.

Small parts and fixings are included in the delivery depending on the nursing bed version and are not shown in detail.

If any faults are apparent or components are missing, please contact **EuroCare** or your supplier.

PHOTOGRAPHS

Transport and Storage System (TLSU)





Mattress support:

Contents:

1 x (1) Mattress support, head section

1 x (2) Mattress support, foot section

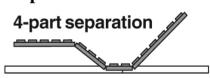
Mattress Support



Version:

4-part separation of mattress support

4-part separation



Bed End

EuroCare Viscount

Bed End

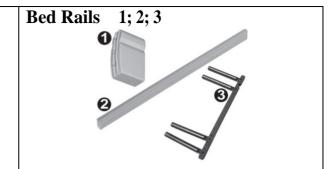


Bed rails

8 x (1) plastic cap for bed rails

4 x (2) bed rail panels

4 x (3) slider for bed rails



Electrical Elements

1x (1) Mattress support motor with control unit and mains cable

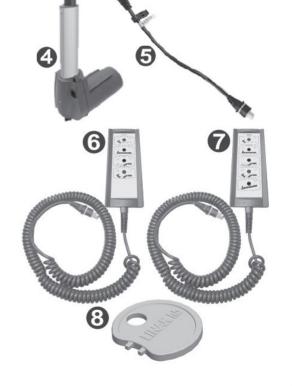
2 x (2) Dummy plugs for non-used jack sockets

1 x (3) Tension protection for control unit socket strip

1 x (4) mattress support motor

Electrical elements 1; 2; 3; 4; Handset 5; 6; 7; 8; (a)





Depending on nursing bed version:

1 x (5) Handset, **without** pushbutton from Trendelenburg's position

1 x (6) Handset, **with** pushbutton for Trendelenburg's position

For electrically lockable hand set:

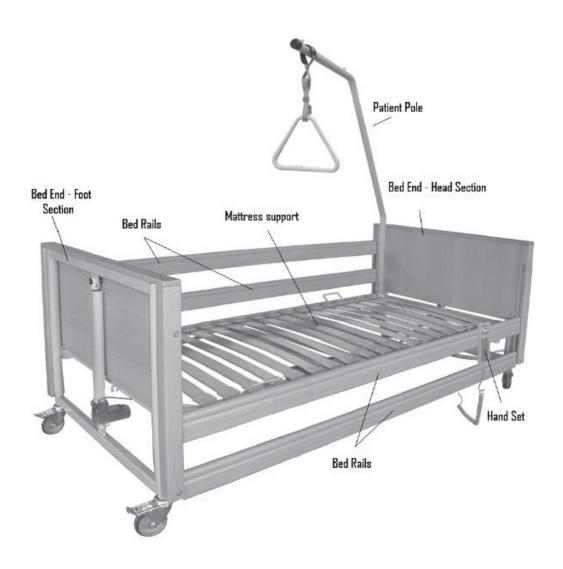
1 x (7) Magnetic key

For mechanically lockable hand set: (can be recognised from rotary knob (a) on rear of hand set)

1 x (8) Rotary key

Patient Pole	Patient Pole
1 x Patient pole with strap and handhold	

4.0 COMPONENTS



5.0 Fittings: Bed frame

5.1 Bed Rails

The bed rails (1) are fixed to the head end and foot end on the bed using plastic sliders.

Both the upper lock for lowering and the lower lock for removing the bed rails can be unlocked using the fastening knob (2)

Bed Rails



5.2 Mattress support

The mattress support is separated into 4 parts. The wooden slats can be wiped clean, and are fixed to the frame with plastic fixings. The mattress is fixed securely to the mattress support using four mattress fixings (3)

4-part separation of mattress support:

The head section (2) can be electrically adjusted up to 70°, the foot section (3) up to 20°.

5.3 Angle adjustment foot section (Rastomat)

The automatic catch (1) mounted at the foot end of the mattress support enables incremental adjustment of the lower leg adjustment (3) of the 4-part mattress support.

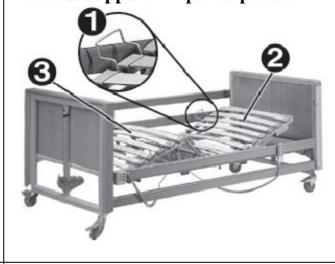
5.4 Bed ends

The bed ends are fitted with a lift motor (1) and two castors (2)

The castors are provided with brakes

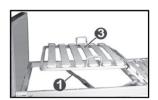
The brakes lock both rolling and swivelling movements

Mattress support 4-part separation



Rastomat





Bed end



6.0 Fittings: Electrics

6.1 Lift Motor

The lift motor (1) is mounted directly on the nursing bed head section or foot section. The motor lift movement is 40cm. This enables the nursing bed lying area to be raised from 40cm to 80cm.

Lift Motor



6.2 Hand Set

The hand set is used to operate all nursing bed actuator motors. Operation takes place using the key pad 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.

6.2.1 Hand set locking function

The Hand Set rotary knob (1) can be set to lock individual electrical adjustments which could result in dangerous changes to the patient's lying position. The rotary switch is adjusted using a special key (2)

Hand Set



6.3 Mattress support motor

The nursing bed with 4-part mattress support is fitted with two mattress support motors. They are fitted under the mattress support. One of the motors is used for adjusting the head section, and one for adjusting the foot section of the mattress support

Mattress support motor

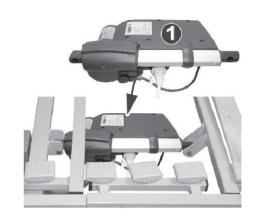


6.4 Control Unit

The control unit (1) mounted under the mattress support is fitted with a first-error-proof electronics unit. This prevents undesirable functional sequences due to first component defects. This is implemented as a splash proofed housing.

The mains cable in its strengthened version is fitted with a push-on anti-kink device and tension protection

Mattress support motor with control unit



7.0 Setting up the nursing bed

Before commencing assembly of the nursing bed, check the package contents against chapter 3.0 "Extent of delivery".

If any faults are apparent, or components are missing, please contact **EuroCare** or your supplier.



Trapping hazard!

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

→ If the mattress support has been folded up, secure it against unintentional unfolding by suitable methods.



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!

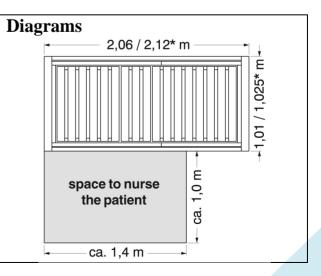
- ◆ Only carry out assembly work using suitable tools
- → Only carry out assembly work if you are used to working with the tools required.

7.1 Location selection and space requirements

When selection the bed's location, ensure that:

- → There is enough space to nurse the patient in the bed on at least one of the bed's sides
- There must be a mains socket near the location in an easily reachable position.

The illustration shows you the required dimensions for setting up the nursing bed and the space around it.



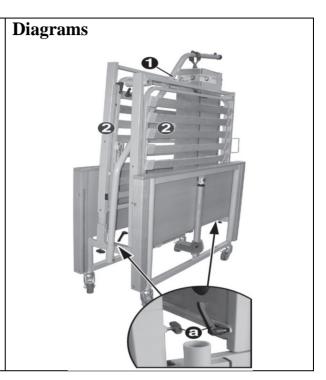
7.2 Preparation – only when supplied with transport and storage system.

- Pull the patient pole out of the mounting tube (1) in the transport and storage system
- Remove all cartons from the transport and storage system



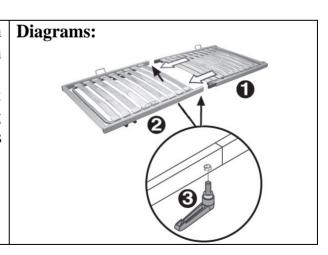
You should retain all cartons if possible for storage of the nursing bed at a later date

Loosen all safety screws (a) and remove both bed sections (2) from the transport and storage system.



7.3 Connecting the mattress support head and foot section

- Push the foot section (1) with the guides into the head section frame (2) as far as the stop
- Secure the mattress support tube connections by screwing & tightening the hand levers (3).



7.4 Fixing the Bed Ends

Loosen the safety screws (b) Diagrams: and remove the bed end with transport and storage system nameplate.



NOTE:

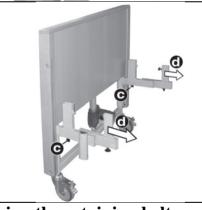
Lock the brakes on the Castors (see chapter 9.7) on the remaining fronts and place these against a wall before you separate the bed ends.

- Push the bed end with the guides (1) into the bed frame tube (2) as far as the stop.
- Screw both tommy screws (3) for the bed end screwed connection into the welded nuts.
- Secure the connection by tightening the tommy screws.
- Loosen the safety screws (c) and remove the transport and storage system (d) from the bed end.
- The second bed end is fixed in a similar manner to that above to the foot of the bed.
- Undo the securing strap (4) on the head section and remove all transport securing devices on the head and foot sections
- To open the retaining belt, press the side tabs (5) on the locking device and pull back the lock.













7.5 Connecting the Accumulator box to the control unit (only nursing beds with Trendelenburg's position)

7.5.1 Disconnect cable control unit

- Mattress support motor.
 - Remove plug (1) from control unit.
 - Remove tension relief (2) from control unit by pressing it together and pulling out of the latch.
 - Remove plug (3) from mattress support motor

NOTE – Keep the cable should you want to convert bed to original condition.

Diagrams:



7.5.2 Connecting the Accumulator Box with the Control unit.

- Plug the angled accumulator box cable plug (4) into the jack socket in the lift motor.
- → Clip the tension relief (5) into the receptacle on the lift motor.

Plug the straight accumulator box cable plug (6) into the jack socket in the control unit.

Plug Arrangement



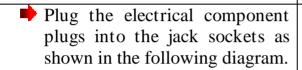
Plug Arrangements



7.6 Connecting the lift motor, hand set and mattress support motor

When connecting, ensure that:

- The arrows (a) on the plug must be aligned to the marking (b) on the jack socket.
- The sealing rings (c) on the plug must not be damaged while being plugged in.



The labels on the plug arrangement shown in the photograph correspond to those on the control unit.

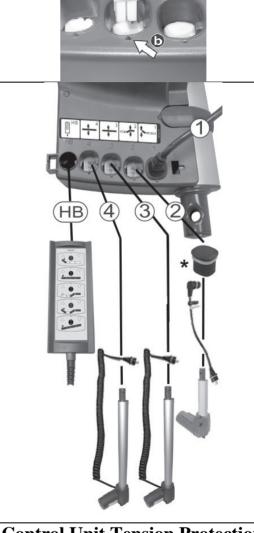
PLUG ARRANGEMENT:

- 1=Mattress support motor (pre-fitted on the control unit)
- 2 = *Dummy plugs (only for 3-part mattress support) or mattress support motor for foot section adjustment
- 3 = cable for lift motor; foot section
- 4 = cable for lift motor; head section

HB = hand set

*NOTE: Jack sockets not in use must be closed using dummy plugs.

Route the tension protection (1) over the plug and clip to into the control unit





7.7 Inserting the mattress support motor with control unit

Open the quick-release bolt retainer (1)

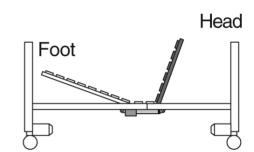


Insertion direction = the mattress support motor with control unit is fixed under the mattress support with the motor housing (2) pointing towards the foot end.

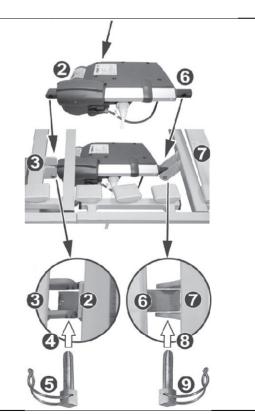


CAUTION!

• Ensure that the mattress support motor with control unit is aligned correction (label on nursing bed).



- Pass the receptacle of the motor side (2) between the mattress support frame tabs (3).
- Insert the quick-release bolt (4) and secure by closing the retainer (5).
- Pass the second receptacle (6) between the head end adjustment frame tabs (7).
- Insert the quick-release bolt (8) and secure by closing the retainer (9).



7.8 Inserting the mattress support motor for foot section adjustment (4-part mattress supports)

adjustment (4-part mattress supports)							
7.8.1 Connecting the mattress							
support motor cable							
When connecting, ensure that:							
• The arrows (a) on the plug must							
be aligned to the marking (b) on							
the jack socket							
• The sealing rings (c) on the plug	ь						
must not be damaged while	a						
being plugged in.							
Plug the angled lifting motor							
cable plug (1) into the jack							
sockets in the lift motor							
Clip the tension relief (2) into							
the receptacle on the lift motor							
782 Fitting the mettyegg support	0						
7.8.2 Fitting the mattress support motor							
Open the quick release bolt							
retainer (1)	027						
Insertion direction = The mattress	Head						
support motor with the motor housing	Foot						
(2) is fixed under the mattress support	1 001						
pointing towards the head end							
(observe label on nursing bed.)							
Pass the receptacle of the motor	4						
side (2) between the mattress	6						
support frame tabs (3)							
➡ Insert the quick –release bolt (4)							
and secure by closing the							
retainer (5)							
Pass the second receptacle (6)							
between the foot end adjustment							
frame tabs (7)	9						
Insert the quick-release bolt (8)							
and secure by closing the							
retainer (9)	6 2						

7.9 Routing & fixing the control unit mains cable

When routing cables, ensure that:

- → the cables are not subjected to tension
- → the cables do not hang too deeply
- → Cables are not routed close to locations where crushing or shearing can take place.

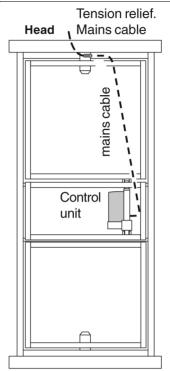


NOTE:

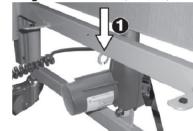
There is one fixing (1) for screwing in the mains cable anti-kink and tension protectors on the head and foot of the bed frame.

Routing the mains cable along the head of the bed is recommended.

- Route the mains cable to one of the fixings (1) on the head section for fixing the anti kink and tension protectors
- Fix the mains cable and bolted connection (2) through the fixing (1) on the bed frame and bolt tight with the nut (3) (size 19mm)
- Screw the anti-kink and tension protector cover (4) onto the bolted connection (2) and screw tight (size 19mm)



Fixing for anti kink and tension protectors (head)



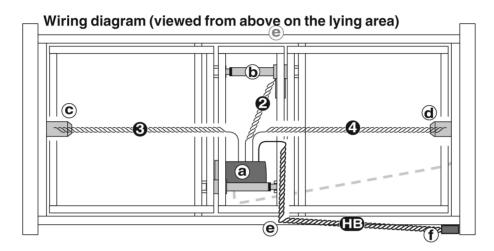
Detain: anti-kink and tension protectors



7.10 Routing the electrical element cables

When routing cables, ensure that:

- → The cables are not subjected to tension
- → The cables do not hang too deeply
- → Cables are not routed close to locations where crushing or shearing can take place



Electrical Elements

A = Mattress support motor with control unit

B = mattress support motor for 4-part mattress supports

C = lift motor; foot section

D = lift motor: head section

E = tension relief

F = hand set

Cable routing

2 = mattress support motor for 4-part mattress supports

3 =lift motor; foot section

4 – lift motor; head section

→ The lift motor spiral cables can be routed hanging free between the control unit and motors.

HB = hand set

→ The hand set (HB) cable is routed from the control unit (a) via the tension relief mounted on the frames (e) to the hand set (f).



NOTE:

Tension relief devices (e) are provided for on both sides of the nursing bed. You should select the side to suit the installation side

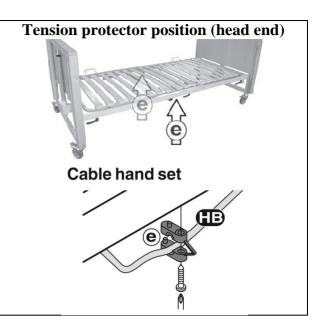
7.10.1 Routing the hand set cable



NOTE:

Tension relief devices (e) are provided for on both sides of the nursing bed. You should select the side to suit the installation.

→ Loosen the tension relief (e) for the hand set cable (HB), insert the cable and screw the tension relief tight.



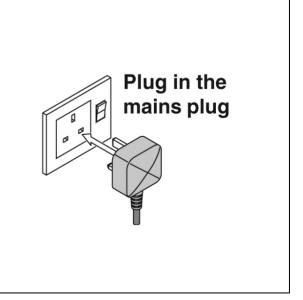
7.11 Carrying out a performance test

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

- Plug in the mains plug
- Check all nursing bed adjustments for correct working order

NOTE: Please note the information in chapters 9.3 and 9.5 "Operation" when plugging in the mains plug and checking the adjustment functions.

- Run the nursing bed up to its highest position
- Remove the mains plug from the socket



7.12 Installing the bed rails

The bed rail cappings have different drill holes in them.

- (a) top capping for bed rail drill holes offset downwards
- (b) bottom capping for bed rail drill holes offset upwards

Installing the bed rails

Fixing the bed rail at the head end:

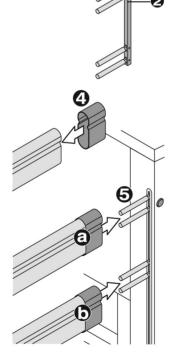
- Press bottom fastening knob (1),
- Push the slider (2) with the point facing upwards into the guide groove (3) on the head front face and
- **➡** Engage in top locking device.
- Press the plastic caps (4) onto the bed rail (observe drill hole position).



NOTE:

Before pushing on, check to see that the spring is located in the cap.

Push the bed rails (a+b) onto the pegs (5) on the slider



Fixing the bed rail at the foot end:

Press the plastic caps (1) onto the bed rail (observe drill hole position).

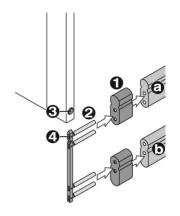


NOTE:

Before pushing on, check to see that the spring is located in the cap.

- Die Guide the pegs (2) on the sliders into the drill holes in the cap and bed rails. When doing this, the pointed side of the guide rail must face upwards(see sketch)
- Press bottom fastening knob (3)
- Push the slider (4) into the guide groove on the foot front face and
- **▶** Engage in top locking device
- Install the second bed rail in the same manner as the first.

Bed rails on foot end





7.13 Installing the patient pole

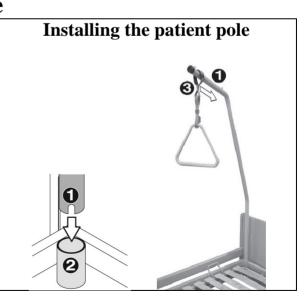
Insert the patient pole (1) in the attachment (2) fixed to the bed frame at the required bed side.



Note:

The guide groove at the end of the patient pole tube (1) must be located over the pins in the attachment (2)

Push the hand grip strap loop (3) onto the patient pole tube.



8.0 Safety devices

8.1 Control Unit

The Control unit is fitted with the following safety devices as overload protection:

- → Limit switches; switch the actuator motors off when they reach their limit position.
- → Thermo switches; switch the Control unit off if it overheats. The Control unit can be operated again after a pause of between 20 and 30 minutes.



CAUTION!

Nursing beds do not have an emergency-off switch!

→ Remove the mains plug immediately in emergencies



8.2 Headrest adjustment emergency unlocking

The nursing bed head section can be raised or lowered by removing the quick-release bolts on the mattress support motors if the adjustment motors should break down.



ACCIDENT HAZARD!

• Operating the emergency unlocking system may only be carried out be two people

Unlocking the headrest adjustment

- Lift the mattress support head section slightly (1)
- Remove the quick-release bolts (2) as follows (second person must do this):
 - 1. Open up the securing bar
 - 2. Pull the quick-release bolts out of the receptacle
- Slowly lower the mattress support head section (3)

Insert the quick-release bolts

- Run the mattress support motors as far as the limit position by pressing the "Lower head section" (4) button on the hand set.
- Fit the quick-release bolts as described in Chapter 7.6 "Inserting the lying area motors".

Raise head section and remove quick-release bolts



hand set



9.0 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.

→ If the mattress support has been folded up, secure it against unintentional unfolding by suitable methods.

When carrying out adjustments, please observe the following points:

- → Before adjusting the bed height, ensure that nothing is blocking the fall adjustment movement.
- → Avoid operating the actuator motors continuously for more than two minutes (intermittent operation).
 - **Maximum** continuous operation of actuator motors = 2 minutes. **Minimum pause** after 2 minutes operation = 18 minutes.
- → Do not operate more than two actuator motors at once.
- → 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.

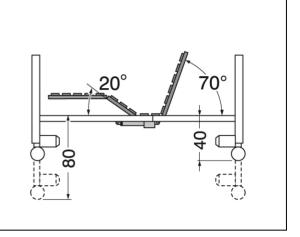
9.1 General notes on operation

4-part mattress support

Backrest foot section and bed height adjustment is infinitely variable.

The adjustment range for the reclining surface height is between 40 and 80cm. The head section can be inclined upwards up to 70°.

The foot piece can be inclined by 20°. In addition, the lower leg support can be lowered mechanically (automatic catch)



9.2 Plugging in the mains cable



Accident hazard!

→ Always plug the nursing bed mains plug into a separate wall socket



The mains cable must not be run over.

- 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.
- → Only plug the mains plug into sockets (230V-/50Hz) which are easily accessible at any time (main plug fuse size 5A)
- → Always check that the mains cable, the mains socket and plug are in perfect working order before plugging the bed in.



CAUTION!

The nursing beds are not fitted with an emergency-off switch!

→ In cases of emergency, remove the mains plug!

9.3 Raising or lowering the bed rails

Raising the bed rails:

→ Pull the bed rails up until the top fastening knob (1) engages.

Raising the bed rails:



Lowering the bed rails:

- Raise the bed rail slightly
- → Press the fastening knob (1) in and lower the bed rails



CAUTION!

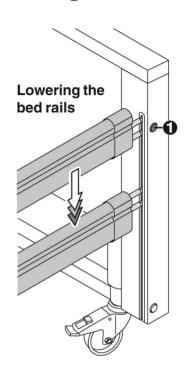
Do not allow the bed rails to fall unsecured onto the bottom locking clip!

When lowering the bed rail, use your other hand to lower it as far as the locking clip

Always place the head and foot end of the side rail in the same position.

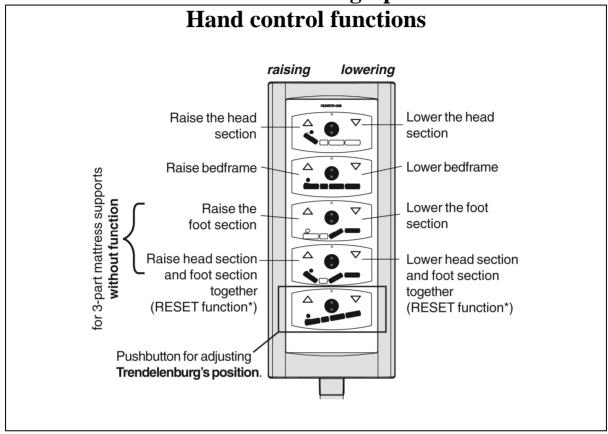
Do not set the side rail in a diagonal position

Lowering the bed rails:



9.4 Operating the nursing bed adjustment

9.4.1 Hand set with Trendelenburg's position:



Possible danger through altering patient's position!

- → Operation of Trendelenburg's position may only be carried out by nursing personnel if ordered by a doctor who is present at the time.
- * The RESET function: Mattress support, head section and foot section are raised or lowered simultaneously. This enables the mattress support to be run to its initial position quickly.



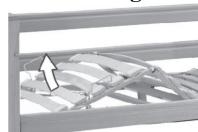
9.5 Adjusting the foot section (Rastomat)



NOTE:

- → Hold the frame in the middle (a) when raising or lowering the foot section.
- → The automatic catch is intended for raising the lower leg support on the 4-part mattress support.
- → Adjustments to be lower leg support in the 4-part mattress support can be carried out in a similar manner as described below





Raising the lower leg support on the electrically-driven foot section.

Raise the foot section slowly into the required position until the Rastomat audibly engages.



NOTE:

→ Raising the foot section until the top stop unlocks the automatic catch.

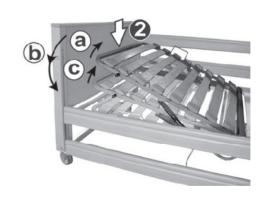


Lowering the foot section (2)

- (a) Unlock the automatic catch by raising the foot section
- (b) lower the foot section as far as the bottom stop

OR

Lower the foot section to the central position and then ensure the automatic catch is audibly engaged by raising the foot section slightly.



9.6 Operating the Brakes

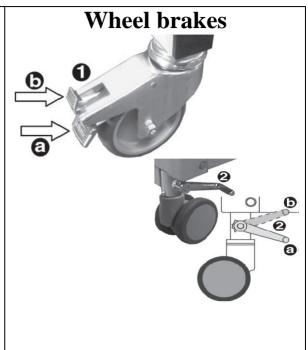


Danger of crushing

- → Before locking, turn the steering rollers to point towards the mattress support under the nursing bed. Ensure that the brake and unlocking levers (a & b) are freely accessible
- → (a) Engage wheel brakes
- ♦ (b) Disengage wheel brakes

Brake Lever

- (a) lock steering and rolling movement
- ♦ (b) release steering and rolling movement



9.7 Pushing the nursing bed and patient transport



NOTE:

- → Only transport patients in a lying position
- → If the patient pole is fitted, ensure low hanging objects (ceiling lamps) are avoided.

Before moving:

- Run the reclining surface into the initial position. Lower mattress support head and foot sections (observe chapter 9.4)
- Pull the bed rails up until the fastening knob engages.
- Remove the mains plug from the socket
- Secure the mains cable against being run over by tying up the safety strap (1) at the head of the bed frame.



Risk of short-circuit and fire!

Always secure the mains cable against being run over using the safety strap (1) before moving the nursing bed

Raise bed rails, initial position.



Transport safety device



- Releasing the nursing bed wheel brakes (observe chapter 9.6).
- ▶ Move the nursing bed.

Release wheel brakes



After moving

Engage all wheel brakes (Observe chapter 9.6)



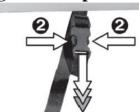
Danger of crushing!

- → Before locking, turn the steering rollers to point towards the mattress support under the nursing bed. Ensure that the brake and unlocking levers (a+b) are freely accessible
- Remove the mains plug from the safety strap
- To open the safety device, press the side tabs (2) on the locking device and pull back the lock.
- Plug the mains plug into the socket (see information in chapter 9.2).

Engage wheel brakes



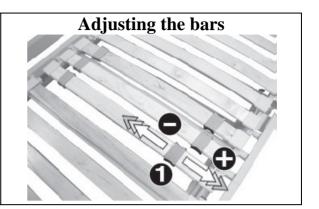
Opening the transport safety device



9.8 Adjusting the slatted frame springiness

The springiness for the individual slats can be adjusted using the six bars (1) fixed to the centre of the slatted frame. This enables the slatted frame to be adjusted to suit the user's weight within certain limits.

Pull bar out (+) – increase hardness Push bar in (-) – decrease hardness



10.0 Patient-related safety measures and adjustments made by nursing personnel

10.1 Limits of use

Particular patient illnesses (clinical condition) can lead to limitations being imposed on the nursing bed application capabilities. Before using the nursing bed, consult the specialist responsible for the patient.



Limitations of use!

→ Patients taller that 195cm (6'5") should not use this nursing bed.

N.B. An extended bed frame to suit patients up to 219cm (7'1") is available from EuroCare.

10.2 Gap dimensions and Bed Rail spacing



Danger to lift and injury hazard through crushing!

- If the patient is underweight, ensure that the patient cannot slip down between the mattress and bed rails
- If the patient is underweight, always use the bed rail protectors supplied by your provider.
- → Always ensure that the bed rails are locked in properly.

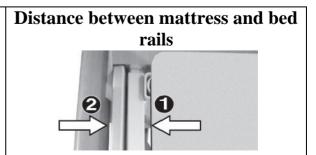
The following checks must be made on the nursing bed and suitable preventive measures must be taken in the case of extremely thin patients:

Check:

It must not be possible for the patient to slip between the mattress (1) and the bed rails (2)

Preventive measure:

Only use mattresses which have a reclining surface of 90cm.



Check:	Bed rail protectors
It must not be possible for the patient	
to slip between the bed rail capping. Prevent measure:	
Use the bed rail protectors supplied	
by your provider.	
	•
Check:	Hand Set
Is the patient endangered by using	
the adjustment options for the	
nursing bed?	
Countermeasure:	
Locking the adjustments at the hand	
set (see Chapter 10.3)	The state of the s

10.3 Locking the nursing bed adjustments at the hand set



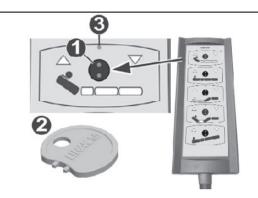
Possible danger through altering patient's position!

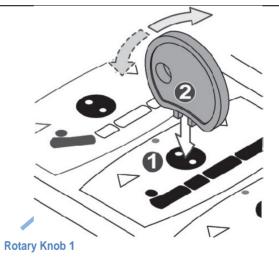
- → Always lock the nursing bed adjustment functions on the hand set which could cause danger to the patient's health if adjusted (consult doctor).
- *♦* Always take account of the patient's condition before locking the adjustment options.

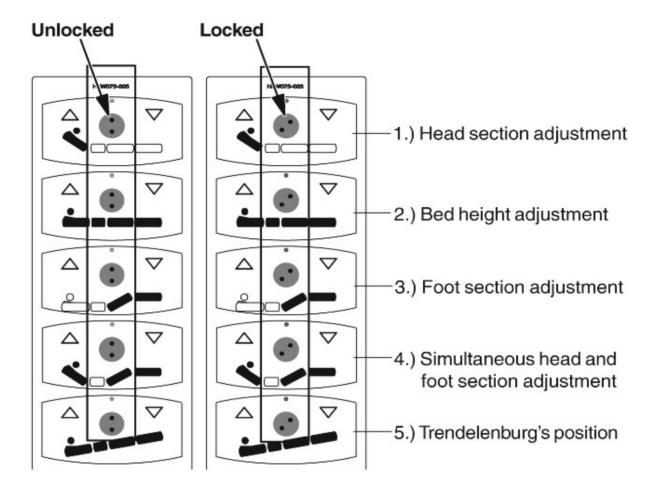
Locking individual adjustments takes place using the rotary knob (1) located at the adjustments symbol. The rotary switch is adjusted using a special key (2). The displays above the rotary know show which function is locked

Displaying "GREEN" = function unlocked Displaying "RED" = function locked

- Insert the special key pegs (2) into the drill holes in the appropriate rotary know (1)
- Lock the adjustment by turning rotary knob to the right
- Unlock the adjustment by turning the rotary knob to the left







The following switches must be blocked in order to lock the adjustment functions:

Lock head section adjustment = 1.) + 4.)

Lock foot section adjustment = 3.) + 4.)

Lock bed height adjustment = 2.)

Lock head section and foot section adjustment simultaneously = 1.) (+ 3.) (+ 4.) (+ 4.)

Lock Trendelenburg's position = 5.)

Test locking by operating the relevant function key on the hand set.
The adjustment must not move.

If the locking system is faulty, replace the hand set or the control unit.

10.4 Trendelenburg's position – guidelines and operation

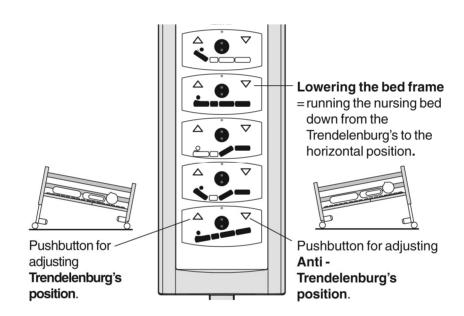
(availability dependent on nursing bed version)

Running the nursing bed to Trendelenburg's position



Mortal danger through altering patient's position

• Only carry out this adjustment to the nursing bed on instructions from and in the presence of a doctor.



11.0 CLEANING



- → 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.

12.0 Testing plan for nursing beds



Hazards due to electrical and mechanical faults!

- → Always remove faulty nursing beds from operation and secure them against unauthorised use (remove mains plug)
- → Always report any faults found immediately to the responsible persons



Accident hazards!

→ It is imperative that you always rectify any faults which could influence the function and safety of the nursing bed immediately.

12.1 Daily checks

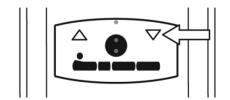
The following routine checks can be carried out by nursing personnel or attendants:

- Lower the nursing bed until both bed end motors are turned off
- Check bed rails for easy movement and damage
- Check the locking device on the bed rails for correct functioning.

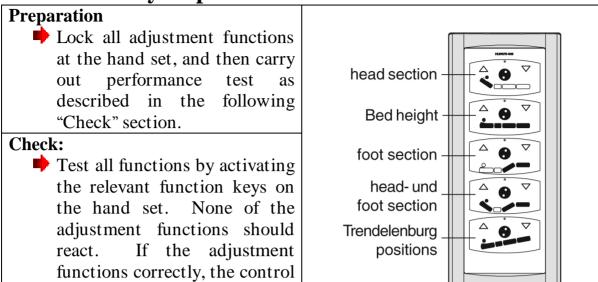
Each time the nursing bed has been adjusted:

- Check the mains cable and mains plug for damage and kinks
- Route the mains cable between the bed and mains socket so that it cannot be crushed or run over

Lower the nursing bed



12.2 6-monthly inspection – check control unit



12.3 Testing intervals

unit must be replaced.

Testing intervals are dependent on the type of usage for **EuroCare** nursing beds.

- **▶ EuroCare** prescribes testing intervals of two years for safety inspections in accordance with MPBetriebV(Germany) under normal environmental and operating conditions.
- → If being brought back into use, inspections should take place before every new usage (after being assembled at the patient's location) and then every two years.
- → Testing intervals should be shortened if the nursing bed has been subjected to higher loading (for example by frequent patient changes in a nursing home). In case of doubt, please contact your supplier for advice).

12.4 Inspection of mechanical components

All inspection work described below may only be carried out by expert trained personnel.

Evaluation of the checklist and maintenance work carried out on the nursing bed may only be carried out by expert personnel with suitable training, knowledge and experience

cription Assessm		ssment
	OK	Defective
Visible inspection of all frames and housing parts for		
deformation, damage, wear and corrosion:		
Mattress support and its plastic elements		
Bed frame side panels		
Bed frame head and foot		
Backrest adjustment guides		
Bed rails		
All lifting device components		
Track rollers		
Check all connecting elements (e.g. nuts, bolts, rivets) for		
completeness, function and correct seating		
All casings		
Existing casing seals		
Casing bolt seating		
Raising mechanism attachment		
All raising mechanism components		

Description	Asses	ssment
	OK	Defective
Performance check to track rollers and brakes:		
Easy running gear movement (rolling and steering)		
Castor locking in "straight ahead" setting		
Function and locking of brakes		
Performance check for bed rails:		
Easy movement in running guides		
Locking (easy movement, play)		
Difference between bar caps, max. 12cm, even under load		
(see dimension A, Chapter. 17.1 "Specifications")		
Distance between bed rails and bed frame max. 12cm, even		
under load (see Dimension B, chapter 17.1		
"Specifications")		
Deformation under load		
Mechanical testing of patient pole under load:		
Check triangle for integrity		
Check triangle belt integrity		
Check raising mechanism tube for deformation under load		

12.5 Inspection of electrical components

Description Asses		ssment
	OK	Defective
Visual inspection of electrical components:		
Mains cable for kinks and damage		
Hand set cabling for kinks and damage		
Mains plug for damage		
Internal cabling for kinks and damage (especially at critical locations such as cable lead throughs, moveable mattress support parts and the lifting device)		
Correct cable routing		
Correct seating and condition of all:		
Plug contacts		
Plug contact sealing rings		
Cable lead throughs		
Cable fixings		
Tension protections		
Anti-kink sheaths		
Performance inspection of electrical components:		
Motor switch-off caused by limit position switches by running all adjustments up as far as the possible limit position. Switch-off is working correctly if: → The switching noise in the switch-off relay is audible		
Motors (noises, speed)		П
Keys on remote control (function, use of movement,		
damage)		

12.6 Measurements

Some countries in Europe have a legal requirement to carry out the measurements listed below.

The nursing bed operator is responsible for determining the appropriate national regulations.

All measurements described below may only be carried out by expert trained personnel and with the use of suitable measuring instruments. Any faults noted must be reported to the responsible person immediately and rectified



Hazards due to electrical and mechanical faults!

→ Always remove faulty nursing bed from operation and secure them against unauthorised use (remove mains plug).



Accident hazard!

It is imperative that you always rectify any faults which could influence the function and safety of the nursing bed immediately.

Description Asses		ssment
	OK	Defective
The following measurements must be carried out in accordance with DIN VDE 0751:		
Earth conductor resistance (only Class 1 devices)		
Equivalent leakage currents		

Information about measurement of equivalent leakage currents:

Typical value: $< 20 \mu A$

Measurement locations: Shorted-out power plug (L+N) against....

1)metallic lift motor parts (bed end motors)

2)blank metallic bed frame locations (bolts etc.)

13.0 Troubleshooting

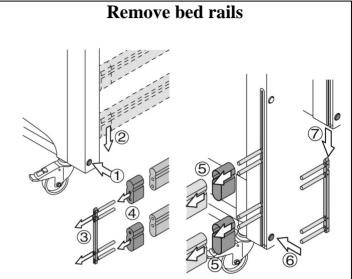
Fault	Model	Cause	Remedy
Mattress support head section or	All models	Mains plug not plugged in	See chapter 9.2
foot section, or		Hand set locked	See chapter 9.4
bed frame, cannot be raised/lowered		Thermo switch active	Try again after 20-30 minutes
		Hand set defective	Inform your dealer
		Control unit defective	Inform your dealer
Mattress support foot section does not locate when being raised	All models	Automatic catch defective	Inform your dealer
Castors cannot be locked	All models	Castor defective	Inform your dealer
Bed rails jammed	All models	Fixing dirty or broken	See Chapter 7.13
Hand set indicator lamp is	All models	Adjustment locked (hand set)	See Chapter 9.4
never illuminated when operated		Drive load exceeded	Reduce drive load
		Controller defective	Inform your dealer

14.0 Storage of the nursing bed with the transport and storage system (TLSU)

Please proceed as follows to store the nursing bed:

14.1 Dismantling the nursing bed

- Remove raising mechanism
- Remove bed rails, to do thisat the foot end:
- 1. Press in the unlocking lever
- 2. Pull the slider out of the guide groove and
- 3. Remove it from the bed rail cappings.
- 4. Remove the plastic caps at the head end
- 5. Pull the bed rail cappings and the plastic caps off the slider.
- 6. Press in the unlocking lever 7.Pull the slider out of the guide groove



- Secure the mattress support with the retaining belts (1) on the bed frames
- Loosen the anti-kink and tension protectors (2) for the mains cable from the bed frames (spanner size 19mm)
- Remove the hand set cable from the tension protection (3) on the bed frames

Secure mattress support



Remove mains cable

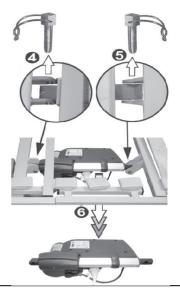


Remove hand set cable



Pull both quick-release bolts (4+5) out of the receptacle and remove mattress support motor (6) complete with control unit

Remove mattress support motor with control unit.



- Unlock the tension relief by pressing in the side clamps (7) and remove.
- Disconnect the following electrical component plugs from the control unit:
- 2 Hand set
- 4 Mattress support motor for foot section adjustment
- 5 Cable for lift motor; foot section
- 6 Cable for lift motor; head section
- 7 Accumulator box (only nursing beds with Trendelenburg's position)
 - Remove the accumulator box from the nursing bed (only nursing beds with Trendelenburg's position).

Disconnect the plug





Remove accumulator box



▶ Pull both quick-release bolts	Remove mattress support motor
(8 & 9) out of the receptacle and remove mattress support motor (10).	Kemove mattress support motor
T	
Loosen the tommy screws (11) and remove both bed ends from the mattress support	Remove the bed ends
→ Loosen the tommy screws	Separate the mattress support
(12) and separate the mattress support	

14.2 Placing the components in the transport and storage system (TLSU)

- Fix the bed ends to the TLSU as follows:
- 1) Push the TLSU (1) onto the bed end guides.

NOTE: The mountings (a) with the clamping screws must be pointing in the same direction.

- 2) Push the second bed end with the guides into the TLSU mountings.
- Fix the connection by tightening the clamping screws (2).
- Push the mattress support foot section (3) **into** the TLSU guides and secure by tightening the hand leavers
- Push the mattress support head section (4) <u>onto</u> the TLSU guides and secure by tightening the hand levers.
- Place the laying area motor, bed rails and small parts upright between the mattress support components (packed in original carton if possible(5)).
- Push the patient pole into the TLSU mounting (6)





15.0 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 of 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.



16.0 APPENDIX

16.1 Specifications: Nursing Bed

CE Certification in accordance with 93/42/EEC

Max. User weight: 140kg	
Max. Working load:	
Nursing bed 1) 175kg	
Patient Pole 80kg	
Nursing bed weight:	
Total Weight:	
Med Classic FS 107.6kg	
Individual weights	212
Mattress support,	212 200
Head section17kg	_ c.
Foot section15kg	
Complete32kg	40 + 40
Bed rail capping2kg	8 4
Bed end25.4kg	
Patient Pole	
Control unit1.8kg	
Mattress support motor2.1kg	
Hand set	
Mattresses to be used 2):	_
Dimensions (width x length x height): 90x200x10	☐ 4-part separation // ☐
90x200x10 Or	70°
90x200x12	20
Matters weight of unit volume 2):	
Depending on model25 – 50 kg / m ³	<u> </u>
Weight6 – 12kg	90
Tang	
Storage Temperature:	101,
+5°C+45°C	<u> </u>
Storage Humidity:	
30%	
1) max. Working load = max. User weight + 35kg accessories (mattress, bed linen etc.)	
2) the mattress is not included in the delivery / all dimensions	
rounded off and in cm.	

16.2 Specifications: Drive system

Power supply230VAC 50 Hz	Foot section 85mm
Safety classII	Operating Conditions:
Ingress protectionIP44	Room temperature+10° C
Noise level<65dB(A)	Up to+40° C
Max. continuous operation 2mins	Relative humidity30%
Min. Pause after operation18mins	Up to75%
Lift – lying area motor	Storage humidity:30%
Head section85mm	Up to75%

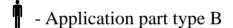
16.3 Nursing bed labelling

16.3.1 Nameplate

The name plate is located on the bed end of the nursing bed and contains the following information:

Safety Class II (Double insulated)

CE- CE-certification in accordance with 93/42/EWG



IP44 – Ingress Protection (splashproofed)

- Reference to the operating manual AB2min/18min - 2 minutes maximum continuous operation of actuator motors

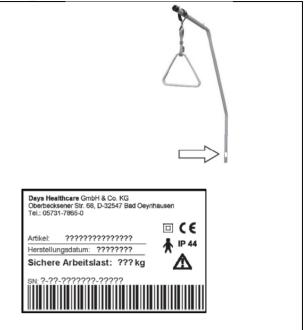
- 18 minutes minimum pause after 2 minutes operation
- Note for disposal



16.3.2 Patient Pole component sign

The component sign is located on the lower part of the patient pole and contains the following information:

- → Warning information about maximum loading allowable
- **→** Item description
- → Reference to the operating manual



16.4 Accessories

Please contact your EuroCare dealer to order any articles required

Description	Order No.:
Urine bottle with holder	
Bed rail protectors, 198 x 39cm, 1	
piece	
Transport and Storage System	
Triangle with length-adjustable belt	
Bed rail, collapsible, beige, right	
Bed rail, collapsible, beige, left	

16.5 Spare Parts

Spare parts can only be obtained from your **EuroCare** specialist dealer. Only original **EuroCare** spare parts may be used (See dealer stamp on reverse of the envelope)

17.0 WARRANTY

EuroCare gives a guarantee of 24 months perfect functioning within its General Terms and Conditions for the nursing bed.

- → During warranty period any parts that have become defective due to faulty workmanship or materials will be repaired or replaced without charge by **EuroCare** supplier/dealer.
- → The warranty excludes items that become worn due to normal wear and tear such as castors etc.
- → The warranty excludes all items that have been subjected to undue wear and tear and misuse.
- → Unauthorised changes or modifications will forfeit you warranty.
- → If a defect or fault is discovered, the **EuroCare** supplier/dealer from whom the product was purchased should be notified immediately.

Limitation of Liability:

The warranty does not extend to the consequential costs resulting from fault clearance, in particular freight and travel costs, loss of earnings, expenses etc. The manufacturer will not accept responsibility for any damage or injury caused by misuse or non-observances of the instructions set out in the user manual.

(Dealer's Stamp)	

