



JYSK HANDI

hjælpemidler til børn og voksne siden 1990

HD BED

Model 800, 801, 810, 811

User's guide (EN)
Rev.03 – May 2015





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1. 1. General

You have chosen the **HD Bed** from Jysk Handi.

Please take your time to read the complete User's Guide in order to benefit fully from your HD Bed. Keep the User's Guide available to all users of the product. You can also download the User's Guide at www.jyskhandi.dk, see under the product.

Please observe that there may be sections of this User's Guide which are not relevant for your specific product.

Any indication of left and right must be perceived as if you are lying on your back in the bed.



You will find this icon in the User's Guide in connection with measures and information of a precautionary significance.



Read the User's Guide with care when seeing this icon in order to use the product in a correct and safe manner.

1.1. Product description

The HD Bed is a special padded care bed for patients with Huntington's Disease and other patients with a similar need for protection in resting and sleeping situations.

Model 800	Model 801
	
Fixed head and foot board	Fixed head board, hinged foot board
Product no. 17 08 00	Product no. 17 08 01



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Model 810	Model 811
	
Fixed foot board, hinged head board	Hinged head board and foot board
Product no. 17 08 10	Product no. 17 08 11



1.1.1. Identification

The HD Bed is provided with the below product label, which contains all relevant information on the product.



Jysk Handi
 Hornbjergvej 11
 DK 8543 Hornslet
 Tel: +45 86 99 65 00
www.jyskhandi.dk

JYSK HANDI

CE




Product: HD BED

Model: _____

Product no.: _____

S/N: _____

Date: _____

 = 163 kg
 = 198 kg
 = 198 kg



Product label

The product label is placed under the head board padding.





1.2. Purpose of the product

The HD Bed is specially designed to protect users with very powerful and involuntary movements against injuries when getting in and out of the bed and during rest and sleep in the bed. These characteristics are often seen in persons suffering from Huntingtons' Disease, persons with different types of brain damage and people suffering from dementia.

The HD Bed is developed for use in the home, in institutions, and in care homes.

By means of a unique system for moving the backrest backwards, the HD Bed ensures great comfort for the user when lying down and ideal conditions for the care assistants due to easy transfer.

All models of the HD Bed have a centrally operated closing system. Not only does this provide optimal security when getting in and out of the bed – it also reduces the risk of injuries to the care assistants.

Models 801, 810 and 811 make it possible for the care assistants to tend to the user at the head or foot of the bed.

The HD Bed can be elevated and has a four-part support surface. The HD Bed has a Combi-Temprafles mattress: wound category 2.

1.3. Product definition

The HD Bed is intended for grown-ups with a BMI of min. 17, a height of min. 146 cm, and a weight of min. 40 kg. If the person has an atypical anatomy, the use of the HD Bed must be risk assessed individually.

1.3.1. Security warnings



Always leave the bed in the lowest position possible. In this way, the effect of possible fall accidents from the support surface is lessened. Furthermore, it is a safeguard against pinching in case of accidental lowering of the support surface.



Risk of serious injury to persons who are under the bed while the height of the bed is being adjusted.



The brake must always be activated when getting in and out and when handling the patient in order to avoid accidents.



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	The bed must be placed in such a way that the height adjustment (up/down) is not blocked by e.g. lifting equipment or furniture. If not, there is a risk of injury or damaging of the equipment.
	Jysk Handi does not accept responsibility if the product is in any way used, changed, or combined in other ways than those specified in this User's Guide.
	The height adjustment of the bed can be used with advantage when getting in and out of the bed. Furthermore, the backrest can be used for support (yellow button on the hand control). However, the thigh and leg section of the bed must be horizontal. If not, there is a risk of overload of the support surface.

1.3.2. Security limitations

Max. user weight: 163 kg, provided that the weight of mattress and accessories does not exceed 35 kg.	 = 163 kg
Safe working load, max. load 198 kg.	 = 198 kg

	A mattress pad or similar of max. 11 cm can be added to the HD Bed.
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1.4. Product certification

The product is developed, manufactured, and tested based on the following documents.

1.4.1. Legislation

The product is in accordance with Directive 93/42/EØF – 21.09.2007 – Medical Equipment.

The equipment has a CE marking and is in accordance with the essential demands of declaration 1263 of 15 December 2008 on medical equipment.

Classification: Medical Equipment Class I.

1.4.2. Standards

The product is produced according to and meets the following standards and documents.

Standard	Description
DS/EN 12182 3rd Edition - 2012.06.29	Assistive products for persons with disability - General requirements and test methods
DS/EN 60601-1 2nd Edition - 2006.12.12	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance
DS/EN 60601-1-11 1st Edition - 2010.07.07	Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment
DS/EN 60601-2-52 1st Edition - 2010.05.19	Medical electrical equipment - Part 2-52: Particular requirements for basic safety and essential performance of medical beds
DS/EN ISO 15233-1 2nd Edition - 2012.08.01	Medical devices – symbols to be used with medical device labels, labelling and information to be supplied –Part 1: General requirements
DS/ISO 7000 3rd Edition - 2014.13.06	Graphical symbols for use on equipment - Registered symbols
DS/EN ISO 14971 6th Edition - 2012.12.21	Medical devices - Application of risk management to medical devices
DS-EN ISO 9999 8. Udgave - 2012.11.15	Assistive products for persons with disability - Classification and terminology





1.4.3. ISO Classification

HD Bed Model 800, HD Bed Model 801, HD Bed Model 810, and HD Bed Model 811 are classified 18 – 12 – 10 – 37 according to DS-EN ISO 9999.

1.4.4. Test reports

The HD Bed is tested in December 2012 by DANAK / Danish Technology Institute.

The HS Bed is tested according to IEC 60601-2-52:2009 Medical Electrical Equipment, and complies with the demands.





2. Product overview

2.1. Top part

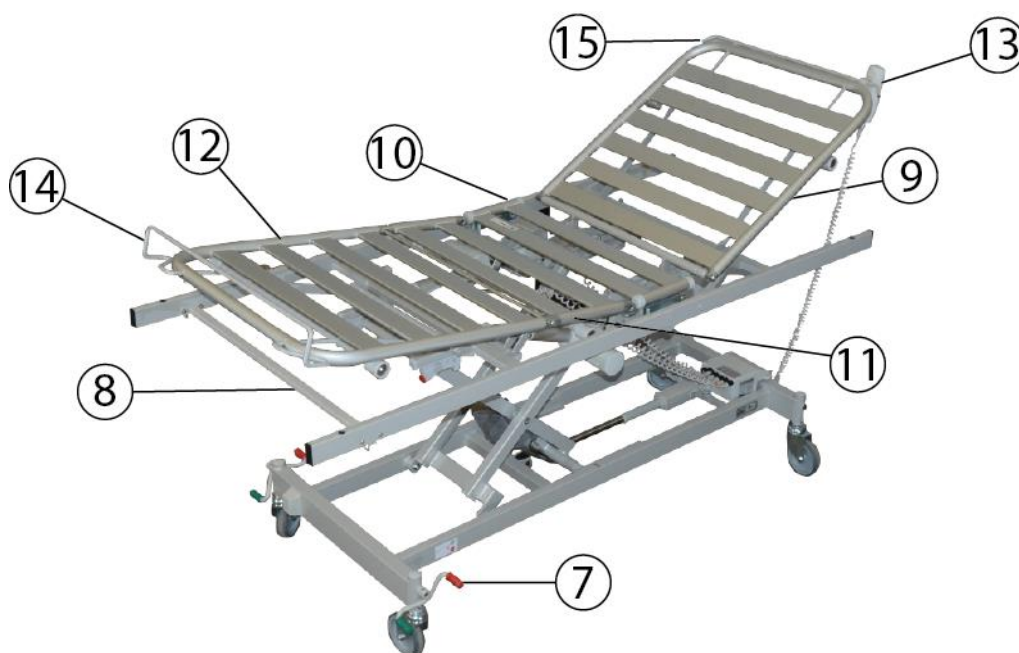


1. Hinged/fixed head/foot board
2. Bed side section
3. Rubber protection part for base frame
4. Lock in head/foot board
5. Lock for head/foot board lock
6. Latch





2.2. Bottom part

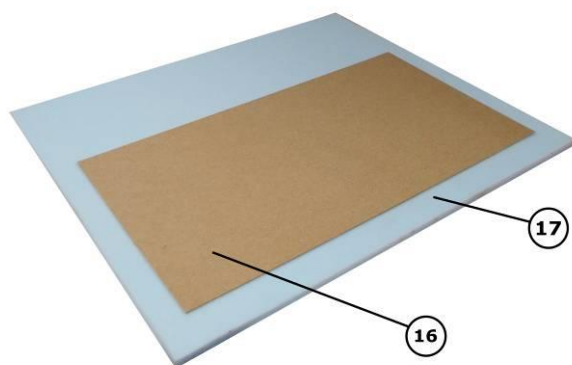


- 7. Brake pedal
- 8. Leg section limiter
- 9. Backrest
- 10. Seating section
- 11. Thigh section
- 12. Leg section
- 13. Hand control
- 14. Mattress bracket
- 15. Mattress extension





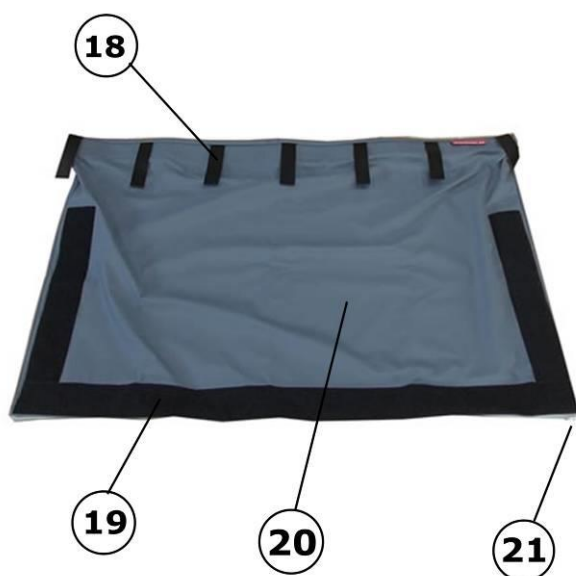
2.3. Foam



16. Masonite plate

17. Cell foam

2.4. Upholstery padding



18. Straps

19. Velcro

20. Backsite

21. Zipper

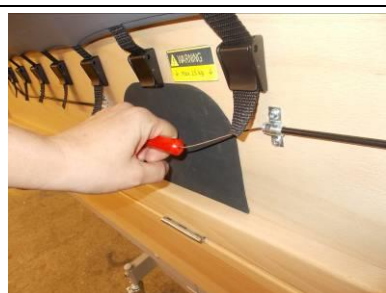




3. Operating the HD Bed

Operating the bed side section

3.1. Opening the side sections



The side sections are opened by pulling the red handle outwards.



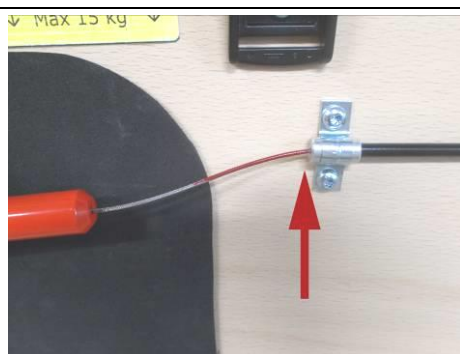
Max. pull 15 kg



Rubber padding in both sides of the bed protects the user when getting in and out.

3.2. Closing the side sections

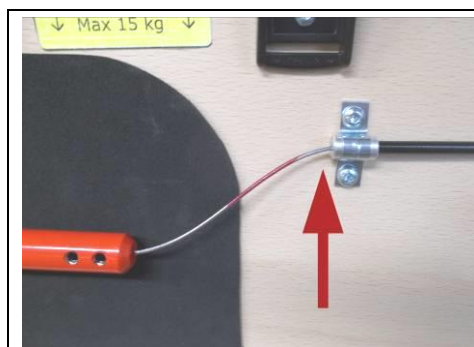
The bed sections lock automatically when pushed close.



CORRECT

When the bed sections are closed and locked correctly, there is no gap between the end bushing and the red mark on the wire.





NOT CORRECT

If there is a gap between the end bushing and the red mark on the wire, the side section is NOT locked correctly.



If the side section is not locked correctly, there is a risk that the user may fall out of the bed.

Open the side section and check, if something is stuck.

Pull the red handle several times.

If the side section still does not lock correctly,, please contact your supplier.



Check that the latches in both sides are not stuck.
X = 9 mm



Push the latch inwards a couple of times to ensure that it is not stuck.





3.3. Working the head board and foot board

This applies for models 801, 810 and 811.

3.3.1. Opening the head board and/or foot board



Pull the black lock outwards while simultaneously pulling the lock on the head/foot board. Applies to both sides.



Let the lock on the head/foot board fall down. Applies to both sides.





3.4. Fitting and removing the padded upholstery

It is easy to remove the upholstery, if a change is needed.

3.4.1. Removing the padded upholstery



On the front of the bed sections, there is a row of clasp buckles.



Pull the black strap outwards to release the clasp buckle, and pull the strap upwards.



All the straps must be loosened.





3.4.2. Fitting the padded upholstery

	<p>Bend the foam slightly in the upper corner to ease insertion into the upholstery.</p>
	<p>Pull the upholstery gently over the foam, and check for creases. Zip closed.</p>
	<p>Secure the upholstery at the bottom by the Velcro border, and pull upwards to match the Velcro borders.</p>

3.4.3. Fitting the padding

	<p>Pull the straps downwards through the clasp buckles; tilt downwards to lock the strap.</p>
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3.4.4. Mounting the mattress upholstery

The HD Bed has a Combi-Tempraflex mattress consisting of two types of foam, tempraflex (white) and a fire-resistant polyether foam (brown) upholstered with an incontinence padding.



The mark "Denne side op" (This side up) on the upholstery indicates that the white tempraflex foam must face upwards.

Fit the upholstery, and zip up.

Place the mattress in the bed with the mark "Denne side op" (This side up) upwards.

3.4.5. Operating the brake



Operating wheels with central brake

Brake the bed, when it is placed in the right position.

1. Brake: Press the red pedal all the way to brake the bed.
2. Release the brake: Step on the green pedal.

In some circumstances, the wheels of the bed may leave marks on some types of flooring, e.g. raw or worn wooden floors. If in doubt, Jysk Handi recommends placing a protective plate between the wheels and the flooring.



Always activate the brake, when there is no need to move the bed, in order to avoid accidents when getting in and out of the bed and handling the user.





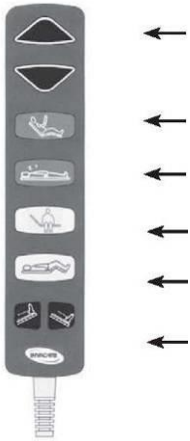
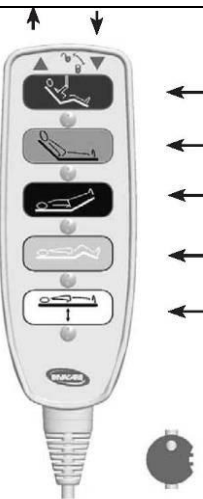
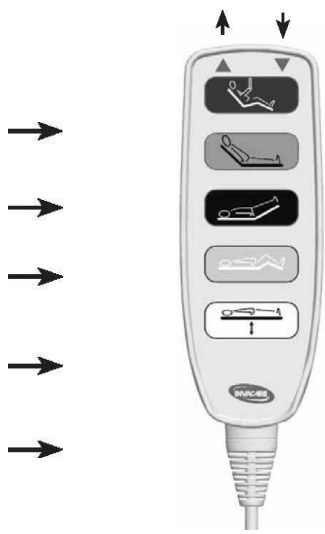
3.4.6. Position



Place the bed in such a way that the height adjustment (up/down) is not blocked by e.g. lifting equipment or furniture. If not, there is a risk of injury or damaging of the equipment.

3.5. Operating the hand control

The bed may be equipped with this type of hand control (Soft Control)

	<p>Height adjustment of bed UP/DOWN</p> <p>Sitting position, no matter the starting position</p> <p>Support surface horizontal, no matter the starting position</p> <p>The "out of bed" button raises the backrest and moves the thigh section into a horizontal position</p> <p>Raises the thigh section and moves the backrest into a horizontal position</p> <p>Adjustment of leg section UP/DOWN</p>	
	<p>Sitting position</p> <p>Backrest</p> <p>Leg section</p> <p>Thigh section</p> <p>Height adjustment of bed</p> <p>Key: Put the key into the knob under the push button and turn to switch between locked and unlocked position</p>	





3.6. Emergency lowering of backrest or thigh/leg section

Emergency lowering of support surface sections may be necessary in case of e.g. power failure or motor failure. The height adjustment function of the bed CANNOT be emergency lowered.

In case of emergency, the support surface sections can be lowered by removing the tube cotter on the relevant motor.



It takes min. two people to emergency lower a support surface section.

3.7. Emergency lowering step-by-step

1. Remove the plug from the socket.

2. Pull out the bed in order to have access from both sides.

3. Open both sides by pulling the handles.

4. One person stands on each side of the bed.



5. The backrest tube cotter is placed on the right side. Both persons hold on to the support surface of the backrest; the person on the right side pulls out the tube cotter.

Lower the backrest slowly, until it is level.



6. The tube cotter for the thigh section is placed on the left side.

Both persons hold on to the thigh section; the person on the left side pulls out the tube cotter.



Lower slowly, until the thigh section is level.



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	<p>7. The tube cotter for the leg section is placed on the right side. Both persons hold on to the leg section; the person on the right side pulls out the tube cotter. Lower slowly, until the leg section is level.</p>
	<p>8. Closed/locked tube cotter</p>

3.8. Leg section limiter

As default, the HD Bed is mounted with a leg section limiter, which makes it impossible to lower the foot section.

	<p>If there is a need to lower the foot section, the leg section limiter can be removed by dismantling the screws and lock nuts.</p>
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In case of removal of the leg section limiter:
Users with uncontrolled and involuntary movements may inadvertently get stuck between the mattress and the bed frame and thus sustain injuries.





4. Maintenance

In order to ensure that the HD Bed functions safely and optimally, continuous maintenance and cleaning is necessary.

4.1.1. Cleaning the top part of the bed

Clean the sides, head/foot rests, and base frame of the HD Bed with standard disinfectants.



Never use acids and alkalis or solvents. Make sure that the plug is removed from the socket.

4.1.2. Cleaning the bottom part of the bed

Wash the bottom part of the HD Bed with brush and water. The water can be under pressure, but do not hose directly onto the electric parts with a water pressure cleaner or steam cleaner. The backrest and leg/thigh sections of the bed can be placed all the way across the support surface, which eases cleaning and access to controls.



Do not clean the bottom part of the HD Bed in a washing facility or use cleaning with jet water streams.



Never use acids and alkalis or solvents. Make sure that the plug is removed from the socket.





4.1.3. Cleaning the upholstery

The upholstery is made from incontinence padding, which prevents permeation of body fluids such as urine, faeces, vomit, blood, etc.

	<p>Remove the upholstery – see section 3.4.1</p> <p>Laundry symbols are found on the inside of the upholstery.</p> <p>INCONTINENCE COVER</p> <p>BI-elastic PU-coated</p> <p> </p>
--	--

The upholstery tolerates 95° in the washing machine.
Machine dryable at high temperatures.

	<p>Does not tolerate bleaching. Do not iron.</p>
--	--

4.1.4. Cleaning of Combi-Tempraflex mattress

In case of light, superficial seepage of body fluids via the zipper, the mattress can be cleaned with warm water.

	<p>In case of extensive seepage of body fluids (blood, urine, faeces, vomit, etc.) it is recommended to dispose of the mattress and acquire a new one.</p>
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4.1.5. Cleaning and maintenance of the rubber padding

The rubber padding is made from natural rubber.

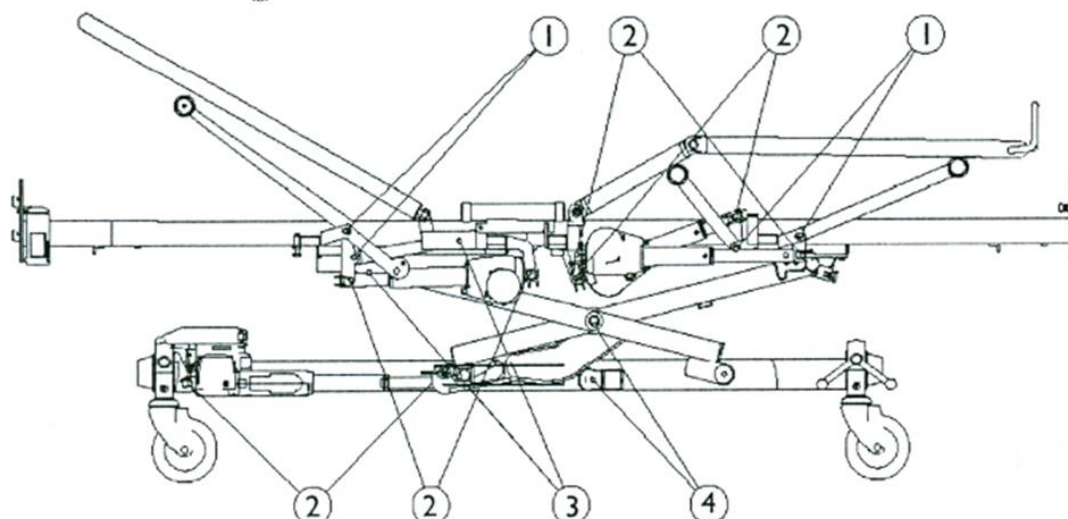
The rubber padding can be cleaned with standard cleaning agents. Wash and wipe.

Must be given a finishing treatment with talcum powder to maintain the properties of the natural rubber and to ensure the sliding feature.



Never use acids and alkalis or solvents on the rubber padding.

4.2. Inspection



It is recommended to lubricate the bottom part of the HD Bed once a year according to the below plan:

Bearings for lifting arms and scissor – lubricate with oil

Motor anchor – lubricate with oil

Slide valves and guideways – lubricate with grease

Shafts and rollers for scissor (shaft must be demounted) – lubricate with grease.

Use medical clean oil for lubrication, e.g. Kemitura Kem Lub KEM-WO 50

Foto af hængsler

Lubricate hinges once a year with lock cylinder spray.

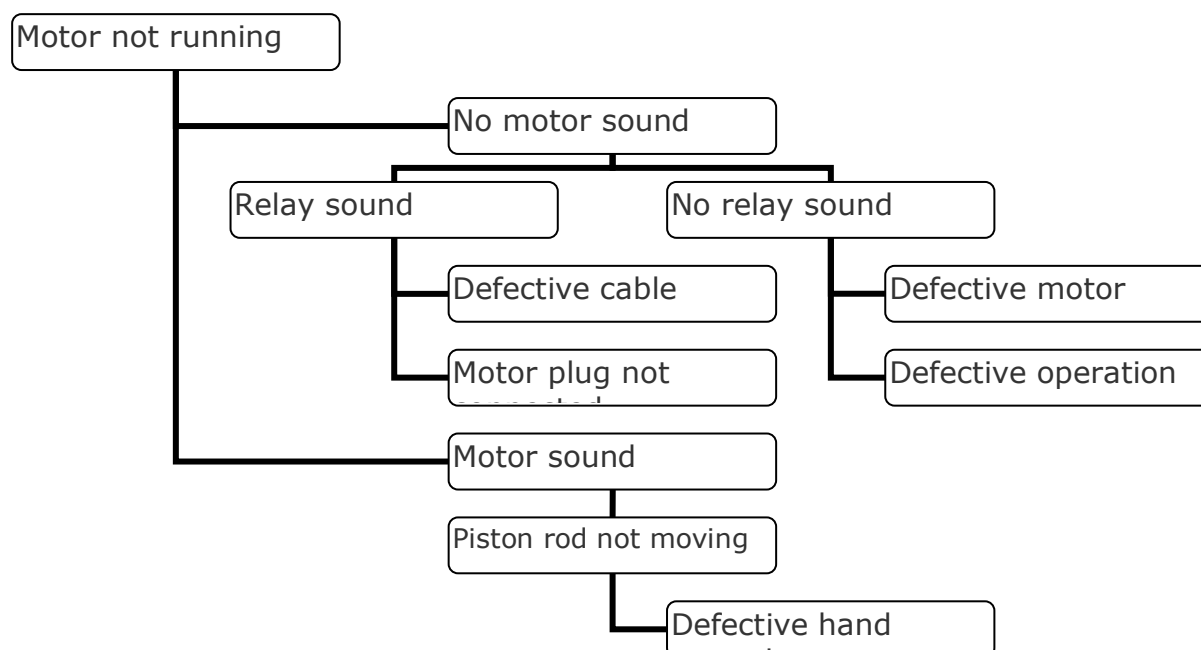




5. Troubleshooting

5.1.1. Troubleshooting of the electrical system

NB! First check, that mains voltage is connected.



5.1.2. Troubleshooting in the central closing system/wire

6. Spare parts

Product name	Product no.
Rubber padding	17 09 11
Upholstery, 4 parts	17 70 10
Upholstery, 5 parts	17 70 00
Mattress with upholstery	19 00 15
Padding	
Hand control	19 71 30
Power Cable	19 71 10





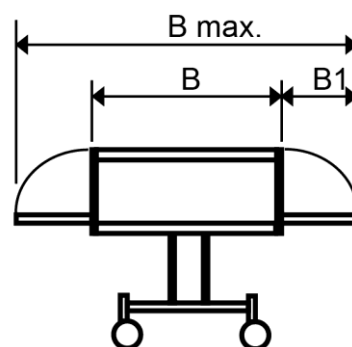
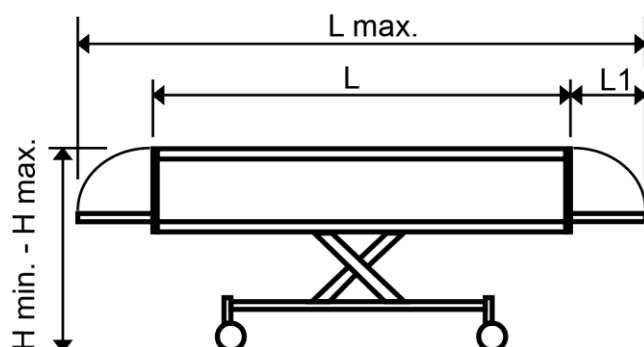
7. Accessories

Product name	Product no.
HD Bed hinged foot board	17 09 01
HD Bed hinged head board	17 09 02

8. Technical data

All measurements in mm

Lenght		Widht		Height	
L max.	2990	B max.	1685	Min	Max
L	2240	B	935	835	1290
L1	375	B1	375		



Weight

Top part with upholstery: 52 kg

Mattress: 10 kg





9. Disposal

This product is manufactured by an environmentally conscious manufacturer.

This product may contain materials that can damage the environment, if they are not disposed of according to the legislation in force.

The symbol of the "crossed out rubbish bin" is placed on this product to encourage recycling when possible.

Please be aware of the environment, and recycle this product through your local recycling depot at the end of its service life.





10. Transportation and storage

10.1. Dismounting and mounting packaging of the HD Bed

How to dismount the transportation packaging of the HS Bed



The HD Bed is delivered in transportation packaging as shown on the above photo.

See the following for correct dismounting of the transportation packaging.

NOTE! Store the transportation packaging subsequently in case the bed must be transported/shipped – the instructions must be followed in reverse.

NOTE! If the bed must be put back into the transportation packaging, only use SCREWS Torx no. 20, size 4.0 x 25 mm.






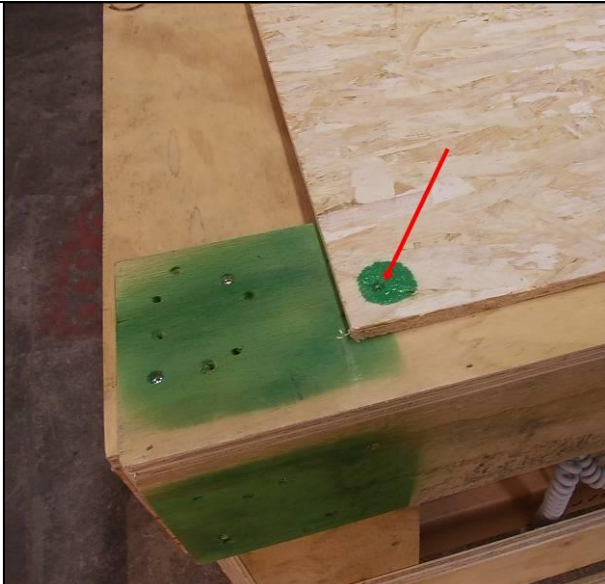
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Meaning of the colour markings:

		<u>DO NOT</u> screw apart the red markings
		Screw apart the green markings


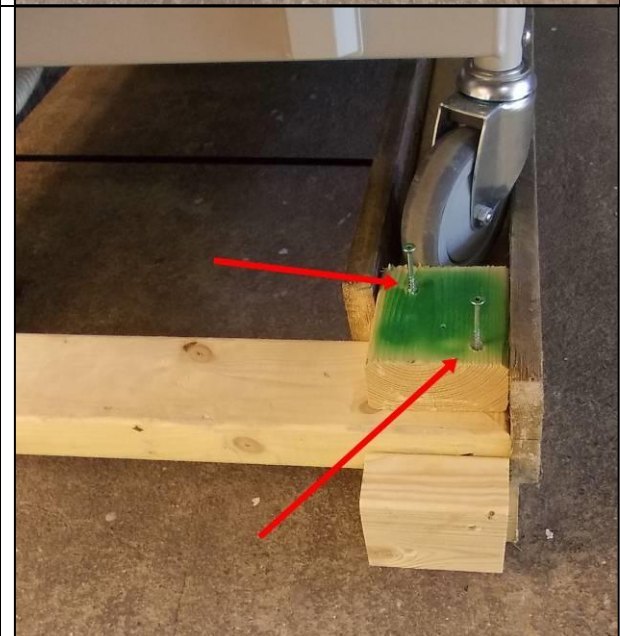
	Unscrew the screws in each corner of the lid and remove the lid.
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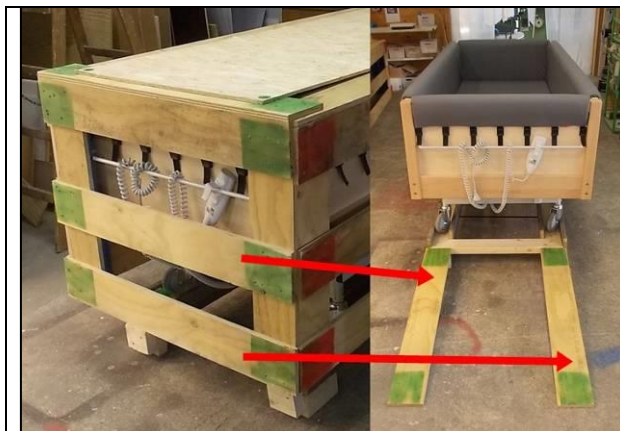
	<p>Unscrew the screws in each end of the bed.</p>
	<p>Unscrew the green wheel chocks.</p>



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Place two of the boards from the end on the bottom frame and use them as access ramp.

