

Operating Manual Rehabilitation Couch

2-2017



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1. Introduction

Congratulations with your new Rehab-Care dk ApS equipment.
Rehab-Care dk ApS products are modern and up-to-date, based on our long experience in this field.
This equipment brings functionality, quality and easy handling to an optimal level.
Through continuous development at all levels of our manufacturing process, we are committed to pay attention to details and quality. We are therefore your guarantee of a very reliable and functional product.

The Couch complies with the medical directives for 1class equipment (MDD 93/42EEC), EN 60601-1, EN60601-1-2, IEC60601-2-52.

Thank you for your confidence in our product, and for your cooperation.
We wish you every satisfaction with your new equipment.

Best regards Rehab-Care dk ApS.

Version 02-16.02.2017

Manufactured by:



Rehab- Care.dk ApS
Avnvej 10
7400 Herning, DK


















Agent:

2. Unpacking

Unpack the couch carefully and check all parts and accessories.
Check for possible transport damage.
We recommend that the couch is cleaned before use, see cleaning instructions.

Contact dealer if the equipment is damaged or not functioning.

3. General Security Rules

-  Warning! Do not use a high pressure cleaner on this product.
-  Warning! Do not use chemicals that are not improve. Carry out an annual inspection for damage.
-  Warning! Use only the supplied remote control.
-  Warning! Prevent foreign articles from damaging the wheels.
-  Warning! Use only spare wheels recommended by the supplier.
-  Warning! The couch must not be operated by children under the age of 12.
-  Warning! The couch has a maximum capacity of 250 kg SWL.
-  Warning! Use only approved mattresses of the same type as those supplied.
-  Warning! The couch should not be used if there is any doubt about it being in good working order.
-  Warning! The couch is not approved for private use.
-  Warning! When the patient is not being supervised, the couch should be in the lowest position to prevent falling accidents.
-  Warning! Wrong use of cables, power supply, and remote control can lead to accidents.
-  Warning! Prevent damage to power cable.
-  Warning! Couches must not be stacked on top of one another.
-  Warning! Use of non-approved accessories may result in loss of CE approval.
-  Warning! Attention must be paid when changing the position of the bed guard.
-  Warning! Use of the Trendelenburg function must only be in accordance with the hospitals internal security rules.

Read all instructions carefully before use.

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4. Area of Use

The couch is designed for rehabilitation of patients. Used in hospital and health care as well as rehabilitation centers.

The couch is for indoor use only.

The couches safe working load (SWL) is as follows:

SWL:	200 kg.
Patient:	180 kg.
Mattress:	10 kg.
Accessories:	10 kg.

Persons with physical or psychological handicaps must not use the product without supervision or without adequate training in the use of the couch.

Children must not be left unsupervised around the couch, it is not a toy.



Warning! Couch is not tested and evaluated in relation to use in private homes, therefore do not use product in private homes



Warning! Couch should not be used by children under the age of 12

5. Products Life expectancy

The product has a life expectancy of 10 years.

Life expectancy is based on the correct use, cleaning, service and maintenance.

If the couch is to be used longer than the above-mentioned life expectancy, it must be evaluated by qualified service personnel before further use.

It is the users' responsibility to evaluate the couch maintains, if used over the listed lift time.

Electrical parts must only be serviced by qualified technicians.

6. Equipment and Accessories

The couch consists of:

- Wheel-based undercarriage with 2-part lying surface
- Electrical remote controlled for elevation and tilt options.
- Back elevation 60°
- Upright position 40°
- Individual side cushion positions
- Motor assist on all functions
- Central brake function

Extra a Extra accessories available

- Cushions in other measurements and colors
- Mattress with antislip
- Battery, permanent or removable

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7. Power connection

Plug main cable into power supply.

The couch is equipped with a 230V/DC transformer.

Roll up cable when charger is not in use.



Warning! Before connection, control the cable for damage



Warning! Remove cable from main switch to disconnect power supply



8. Battery charging (accessories)

The battery box should be charged before use to ensure the longest possible life of the battery. Charging time depends on the condition of the battery.

Before the couch is used for the first time, the battery should be charged for **24 hours**.

Thereafter battery charging time will be **4 hours**.



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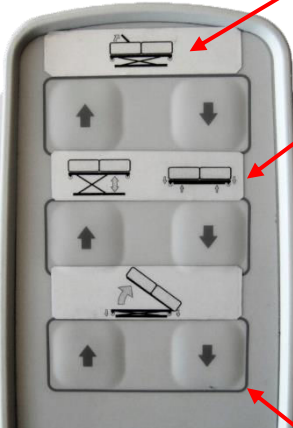



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9. Electrical operating procedure

Adjustment of the couch is by use of the remote control.

See diagram on the remote control.

The couch can be operated by both caretaker and patient.

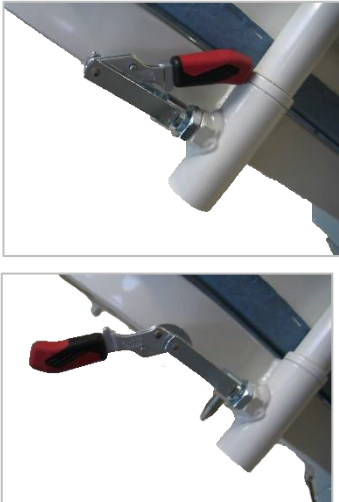

	<p>↑ Back section up ↓ Back section down</p> 
	<p>↑ Lying surface elevates ↓ Lying surface lowers</p>  <p>When lifting the wheels: Press arrow down ↓ When the couch is lowered press the bottom again and the couch will pull up the wheels.</p>
	<p>↑ Up-rising the couch ↓ Lowering the couch</p>  <p>When up-rising: Press arrow up ↑ All functions will come into neutral position and the up-rising function begins.</p> <p>During up-rising position the couch can not use any other functions. If tried the up-rising position will come into neutral and then the couch can carry out the desired command.</p>

-  When lifting with a patient, the maximum weight must not be exceeded
-  When lifting, SWL must not be exceeded
-  Check there is a free space over the couch before lifting
-  The couch must be able to function unhindered up and down
-  Check the remote control cable is in good condition and free from any damage

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10. Manual operating procedure

<p>Bed guards</p> 	<p>The side cushions can be detached or removed from the couch.</p> <p>The side cushions are equipped with two tightening grips, under the lying surface at both ends.</p>
<p>Breaks</p> 	<p>All four wheels have individual brake function. The brake pedal is positioned on top of each wheel. It's activated by a light touch with the foot.</p>

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11. Side constructions

The sides of the couch can be constructed individually depending on purpose and desired height.

The lower row side-cushions is mounted directly in the couch frame, after which the upper row side-cushions is mounted on top of the first row side-cushions.

Easily operated rubber straps secure the cushions to each other and ensures an easy and quick access to the patient when needed.



12. Up-rising function

When activated using the remote control (Arrow up) The couch prepares for up-rising. The couch comes into neutral position and 'sits on the floor'. Hereafter the couch automatically will begin the up-rising.

The couch can be stopped at any desired position / angle.

During the up-rising you can not use any other functions. If you try, the up-rising position will be lowered all the way down and then the couch will carry out the desired command.



14. Technical specifications

14.1 Weight and measurements:

Length	2210mm
Lying surface	2000mm
Widths (lying surface)	800mm
Total width	1020mm
Lowest measure – floor to mattress top	25 cm
Highest measure - floor to mattress top	107 cm
Back section	850mm
Lying surface Angle	40 grader
Wheels	125mm
Weight	120kg
Power	230V~50Hz
Max load	200kg
Max load Back section	60kg

15. Handling of parts during Transport

Side cushions.

16. Cleaning

The couch should be cleaned with a brush or sponge, using a cleaning or disinfection liquid. Rinse well with clean water and then dry thoroughly.

100% chlorine solution must not be used.

Wheels should only be cleaned with a non-corrosive cleaner.

The mattress should be cleaned with a damp cloth and soap/cleaning liquid.



Warning

Never use a high pressure cleaner on the product



Warning

Steam cleaning must not be used



Warning

Automatic washing machines must not be used

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17. Maintenance

Wheels should be kept free of hair and dirt.

Annual service is recommended.

Moving parts should be checked, tightened and greased.

Worn bearings should be replaced, at turning points.

Batteries should be replaced as necessary.

18. Service

It is recommended that qualified personnel are servicing the couch once a year. It is the responsibility of the owner to ensure the service is carried out. A service protocol for the couch should be established. The protocol should be signed by the customer after each service. If the technician discovers a serious defect with the couch, he is under obligation to remove the couch if the defect could lead to a security risk.

Service, repairs and other work on the couch between service checks should be noted in the service protocol.

18.1 Service - Actuator

The actuator/motor should be replaced after 11.000 cycles or min. every 5 years.
Replacement of actuator must only be carried out by authorized service personnel.

18.2 Service - Wheels

Wheels should be serviced when necessary: Tightening of bolts.

Dust-tight bearings require no lubrication.

Use only corrosion-free cleaning liquid.

Wheels and parts must be replaced as soon as a malfunction is detected.

18.3 Service - Battery

If the couch is not functioning normally and the batteries are fully charged, it could be that the lifetime of the battery has been exceeded and the battery should therefore be replaced.

Replacement of the battery must be carried out by qualified personnel.

Use only original spare parts.

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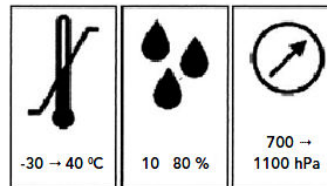
19. Transport and storage

If the couch is not to be used for a long period, it is recommended that it be covered to protect it from dirt and dust. The battery should also be removed, as the lifetime of the battery is significantly reduced if fully discharged.

The couch should be stored in a frost-free environment with humidity of not exceeding 80%.

Transport and storage requirements:

- Humidity between 10 and 80%
- Temperature between -30 and 40 deg. C
- Pressure between 700 – 1100 hPa



20. Disposal

The couch should be separated into electronic, metal and the mattress waste and should not be disposed to normal waste.

21. Electromagnetic – EMC effects

Mobile RF communication equipment (for example cell phones) can affect electrical medical equipment.

Use of other than the authorized accessories and cables could result in increased emission or reduce product immunity.

Power supply via grid-power must be as normally used in hospital environment.

22. Guarantee

In accordance with Danish law, the couch has a 2-year guarantee.

The guarantee becomes null and void in the following circumstances:

1. Overloading the couch.
2. Violent use of couch.
3. Operating error, wrong use of couch.
4. Lack of or wrong maintenance.
5. If the LINAK electrical parts are opened or have been wrongly used.

At Rehab-Care dk ApS we endeavor to continually improve our products.

We reserve the right to improve the product without prior notice.

All measurements on drawings or other material are only guidelines with the usual provisions for errors.

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23. Symbol explanation

The following symbols are used on labels or in this Manual:



Warning, see attached document



User information

IPX4 CBJ Protection against water damage to enclosed parts

IPX6 CB12 Protection against jets of water (12.5 mm jet) to enclosed parts



Class 2 equipment



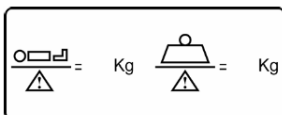
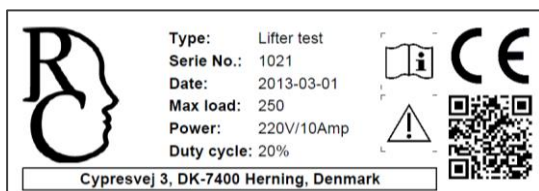
Type B equipment (EN 60601-1)



For indoor use



CE approval directive for medical equipment 93/42/EC



Safe Working Load (SWL)
Patient Max. Weight.

Annex A Periodic inspection

A.1 Periodic inspections should be carried out according to the time frame recommended by the manufacturer, or at least once a year. The periodic inspection comprises a visual inspection, especially of the wheelbase structure, hoist mechanism, brakes, turning points, security devices and patient aids, as well as a function test and normal maintenance, e.g. brake adjustment, tightening of screws, etc.

Each inspection must include one (1) lift with maximum load.

A.2 Periodic inspection must be carried out by a suitably qualified person with knowledge of the construction, use and maintenance of the equipment.

A.3 All-important security observations must be entered in a logbook to be kept by the person(s) responsible for servicing/maintenance of the couch.

The date measures are taken in reaction to the observations should also be noted in the logbook.

A.4 Date and result of the inspection should be entered in the logbook and signed by the inspector.

A.5 In case of fault, wear or other damage that threatens the security of the couch, the owner should be informed immediately. In the case of evident security risk, the couch should be withdrawn from use immediately. The couch must not be used until the fault is rectified.

A.6 Any damage threatening security of the couch that occurs between inspections and which has already been corrected should be entered in the logbook.

A.7 Faults and damage should be reported to the manufacturer/dealer. This feedback must be entered in the logbook. Annex A

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Annex B Daily inspection before use

Nr.	Check	Remarks
1	<ul style="list-style-type: none">All parts in place, no loose parts	
2	<ul style="list-style-type: none">No electrical defects, actuator, cables	
3	<ul style="list-style-type: none">No abnormal noise from actuator or control box	
4	<ul style="list-style-type: none">No rust or surface damage	
5	<ul style="list-style-type: none">No visual or other damage	
6	<ul style="list-style-type: none">Wheel and brake function	
7	<ul style="list-style-type: none">Check bolts and mounted parts are properly fixed on couch as well as accessories, in order to prevent undue slackness and spaces	

Daily cleaning

Remove hair and dust around the wheels.

Clean couch with a damp cloth.

Clarification:

The couch should be cleaned with cleaning or disinfection liquid, using a brush or sponge, and thereafter washed. Dry thoroughly after wash.

Concentrated disinfection liquid must not be used.

100% chlorine solution must not be used.

Automatic wash machines must not be used.

For cleaning of wheels, corrosion-free liquid must be used.

The mattress should be cleaned on both sides with a damp cloth and soap.



Warning!
High pressure cleaner must not be used



Warning!
Steam cleaning must not be used



Warning!
Machine wash must not be used

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Annex C Recommended annual service inspection

Date:		Product ID/serial no.:
Carried out by:		
Service at:		

No.	Check	Remarks
	Visual check of product	
1	- wear	
2	- distortion	
3	- general damage	
4	- rust	
5	- stability no loose parts	
6	- wheels running easily	
7	- wheel lock functioning	
8	- check bed guard for wear	
9	- check mattress for holes, dirt or damage	
10	- check remote control	
	Lift motor/actuator	
11	- raise couch to maximum to ensure it stops	
12	- actuator/lift motor to be replaced after 11.000 cycles or min. every 5 years	
13	Check all functions with normal use (full load, complete cycle)	

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	Electrical parts/connections	
14	Check all cables for wear	
15	Check all cables to ensure they will not be damaged during use	
16	Check all cables are free of damage	
17	Check all electrical parts are equipped with readable labels.	
18	Check battery and control boxes for wear and tear	
	Other	
19	Clean and lubricate as necessary	
20	Label with date of next inspection	
21		
22		

Date: _____ Initials/signature: _____

**The yearly inspection can be electronically registered in the service logbook at Rehab-Care dk ApS.
Contact Rehab-Care dk ApS for further information.**

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Annex D Drawings

D1.Drawing – Couch

The drawing shows two views of a rehabilitation couch. The top view is a side profile showing the couch's frame, wheels, and a height-adjustable mechanism. A dimension line indicates a height of 946. The bottom view is a front perspective showing the couch's base, casters, and a leg support structure. A dimension line indicates a length of 2148.

Rev	Date	By	File

rehab-care.dk
Description: Traume seng genopretning
Scale: 1:10
Paper: A3
Sheet: 2 of 2

Service Center: CONF.
Drawn By: 415 Draw Date: 10-03-17
Weight: 16777.38 Status: ok Made in:
Drawing No.: TR2-10000
*Sole printer JACO 2102-01 Rev.

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Annex E Spare parts list

ITEM NO.	PART NUMBER	Description	QTY.
1	LONT00-02		1
2	FR2-2000		1
3	FR2-2500		1
4	JA31 Bund 150 v	Aktuator 150mm sp-line	1
5	JA31 Top 150		1
6	JA31 Top 250		2
7	JA31 Bund 250 v		2
8	3477UPRT25P30- vde-hjul		4
9	FR2-2010		1
10	FR2-2011		1

The diagram shows a perspective view of the rehabilitation couch's metal frame. Callouts 1 through 10 identify the following parts: 1. Side rail, 2. Headrest, 3. Backrest, 4. Lower backrest, 5. Upper backrest, 6. Footrest, 7. Side support, 8. Casters, 9. Front casters, 10. Rear casters.

Rev	Date	Rev	Date
rehab-care.dk			
Description: Traume serig genoptræning		Scale: 1:10	
		Page: A3	
		Sheet: 1 of 2	
Surface treatment: Color:			
Drawn by: MS		Issue date: 10-02-17	
Weight: 10777.25		Scale: 1:10	Material:
		Drawing No: TR2-10000	Rev:
Title block: 100-200-01			

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Annex F Troubleshooting

No.	Fault	Possible cause	Solution
1	Malfunction	Is power plug on?	Switch on
2	Malfunction	Are all plugs pressed firmly in?	Press plug in firmly
3	Malfunction	Is there visible damage to cable?	Replace cable
4	Malfunction	Battery	Replace with fully charged battery

Contact dealer if the couch is not functioning correctly.

A defect couch must not be used.

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Appendix Battery

The couch can be equipped with different battery systems.

The following models are used: CB06, CB12 and CBJ.

Both systems are approved in accordance with Standard 60601-1 for electrical medical equipment.

Charging

To ensure the longest possible lifetime of the battery box, charge before use.

First-time charging

before the couch is used for the first time, charge the battery for **24 hours** to ensure it is fully charged to ensure the longest possible lifetime for the battery.

Subsequent charging

Subsequently, the battery has a charge time of **4 hours**.

NOTICE:

With storage of longer than 6 months from the production date, the battery must be charged every 6 months.

NOTICE:




The battery can be damaged if it is fully discharged between charges.



Warning! Couch must not be in use during charging



Warning! Battery must not be charged in wet rooms, bathrooms or similar.

CB12 / CB16	CBJ
	  Batteri BAJ1/BAJ2
IPX6	IPX4
Color: grey	Color: grey and blue
Class 1 electrical safety	Class 1 electrical safety
Use 2 minutes continuously, thereafter 18 minutes disconnected	Use 2 minutes continuously, thereafter 18 minutes disconnected
Working temperature : +5 - + 40 degrees C	Working temperature : +5 - + 40 degrees C