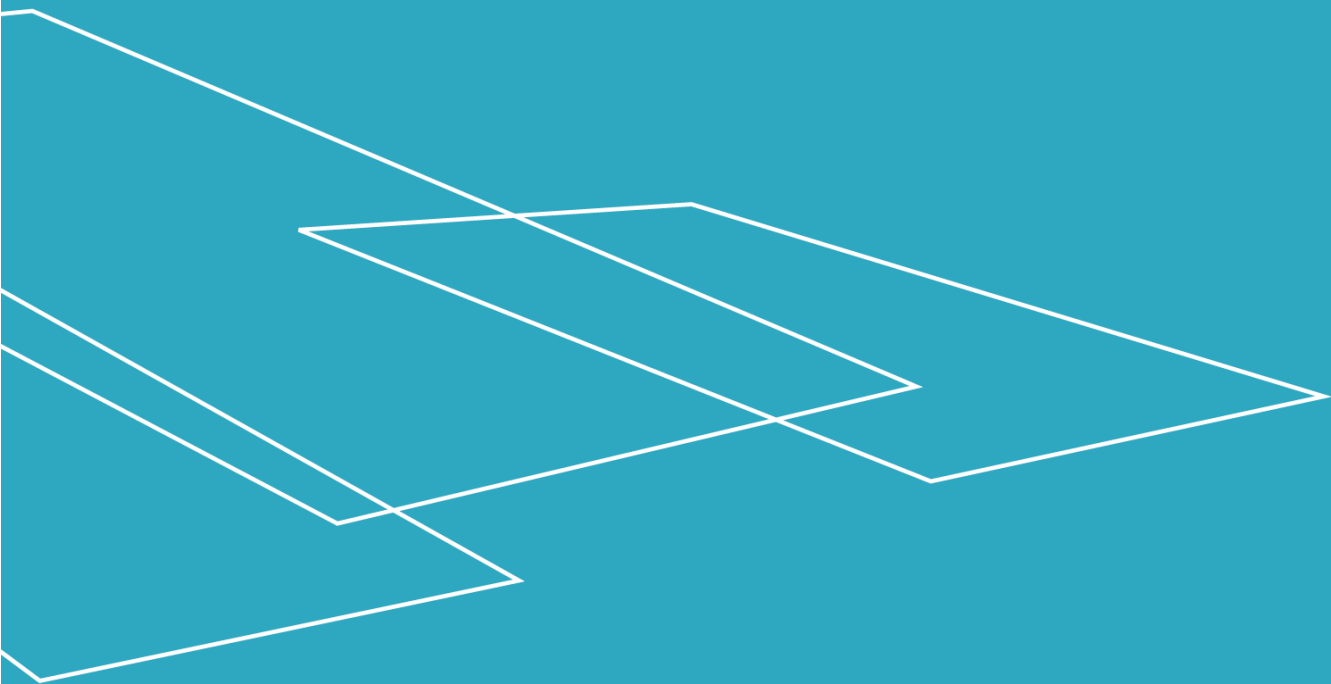




User Manual RAIZER®

USER MANUAL – RAIZER® – GB VERSION 1.1



Contents

1. Foreword.....	3
1.1 Quick Guide	3
2. EC declaration of conformity	4
3. Type certificate	5
4. Terms of use.....	6
5. Technical specifications.....	7
6. Safety instructions	8
6.1 Assembly	8
6.2 Avoiding personal injury.....	8
6.3 Overload.....	9
7. Personal safety	9
7.1 Avoiding personal injury.....	9
7.2 Seatbelt.....	9
7.3 Handling.....	10
8. Functionality.....	11
9. Prior to use.....	11
10. Operation.....	12
10.1 Assembly and use of the Raizer®.....	12
10.2 Assembly of left-hand side	13
10.3 Assembly of right-hand side.....	14
10.4 Lifting of person.....	16
10.5 Operation of the Raizer® by means of seat buttons	18
10.6 Operation of the Raizer® by means of remote control.....	20
10.7 How to pair the remote control transmitter and receiver	21
11. Disassembly	22
12. Charging of the Raizer®	23
13. Maintenance.....	24
13.1 Cleaning:.....	24
13.2 Mechanical maintenance	24
13.3 Remote control	24
14. Maintenance checklist.....	25
15. Service log book	27
16. Spare parts	28
17. Troubleshooting	34
18. Electrical diagram.....	35
19. Disposal	36
20. Right of complaint	36

I. Foreword

Congratulations on purchasing your new Raizer.

This is an original user manual for your new Raizer.

NB: It is important to read this manual before using the Raizer.

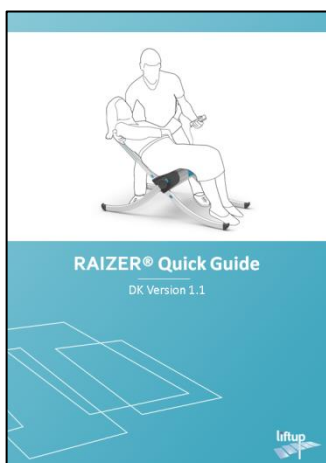
The Raizer is a battery-powered mobile lifting chair which raises a fallen person up to an almost standing position in a few minutes. It can be operated by only a single assistant and requires no physical input from the assistant aside from a helping hand.

The Raizer is simple to operate by means of the control panel mounted on the side of the seat, or via a remote control*.

*Supplementary equipment



I.1 Quick Guide



There is a supplementary Quick Guide in the pocket of the carrying bag.

You can store this user manual in the same place.



Scan to retrieve an extra Quick Guide

2. EC declaration of conformity

EC declaration of conformity

Directive 2006/42/CE

Manufacturer: Liftup A/S
Address: Hagensvej 21, DK-9530 Støvring
Telephone: +45 9686 3020

Hereby declares that:

Equipment: RAIZER®

Is in compliance with the provisions of the EC Directive on machinery according to directive 2006/42/CE

At the assessment the following has been used:

DS/EN ISO 10535 Hoist for the transfer of disabled persons
– Requirements and test methods.


Is in compliance with the EMC Directive 2004/108/EC of 15. December 2004 concerning the approximation of the laws of the Member States on electromagnetic compatibility.

Director
Title

Flemming Eriksen
Name

Liftup A/S, Hagensvej 21, DK-9530 Støvring
Company

01-12-2014
Date


Signature

3. Type certificate



4. Terms of use

The Raizer should only be used to bring a person lying on the floor to a seated or almost standing position, who cannot do so by themselves. The person may then require relocation from this position.

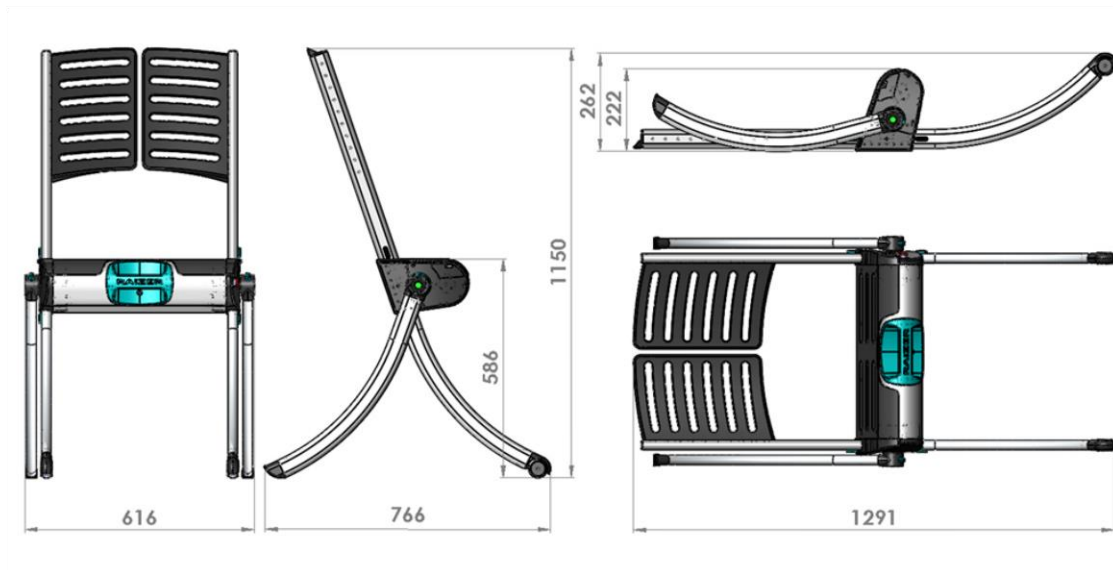
The max. load of the Raizer is 150kg with max. 1 person at a time on the chair. The max. load is also stated on the CE-mark on the rear of the seat. The Raizer can be used approx. 40 times at full load on a full charge. A charger is included with your Raizer.



Read this user manual thoroughly before using the device.
The owner of the device is obliged to maintain it according to the maintenance guide in section 13.

5. Technical specifications

Example:



Technical specifications:

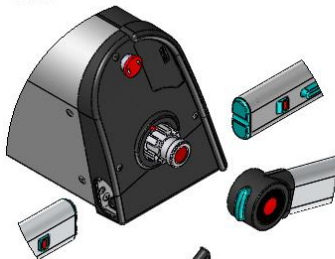
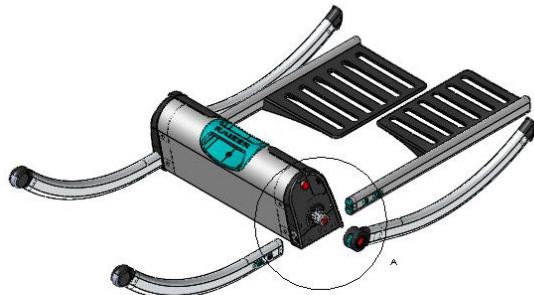
Charger (2 pcs.):	Soniel 12V. 100-240V 12 V car adapter
Battery:	LiFePo4
Number of lifts on a full charge:	40 with a max. load. Approx. 100 with an average load.
Charging time:	Max. 6 hours (230V charger)
Charging of depleted battery:	10–15 min = 1 lift
Dimensions (L x W x H):	Standing 766 x 616 x 1150 mm Lying 1291 x 616 x 262 mm
Weight:	Seat 9kg. + legs and back rest 4kg. – total 13kg.
Lifting capacity:	Max. 150kg.
Lifting time:	20-30 secs.
Noise level:	< 70 dB A
Approval:	Directive 2006/42/EC on machinery Patented technology Registered design

Right reserved to make technical modifications

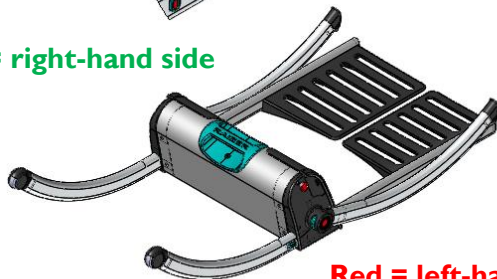
6. Safety instructions

6.1 Assembly

Correct assembly

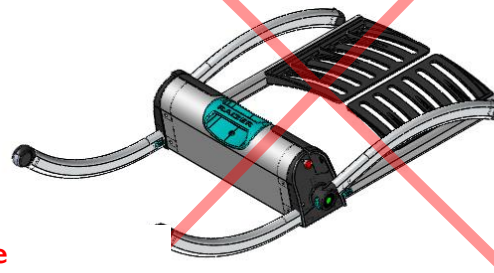
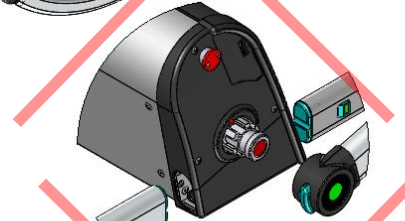
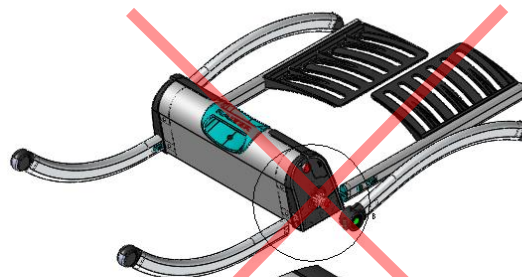


Green = right-hand side



Red = left-hand side

Incorrect assembly



Correct assembling of legs and back rest.

Incorrect assembling of legs and back rest.

Observe red marks on left-hand side
Observe green marks on right-hand side

6.2 Avoiding personal injury.



Although the Raizer comes fitted with various safety features never use it if unintended persons or animals are close by, as there may otherwise be a risk of crushing. **Never allow children to play with the Raizer.**

6.3 Overload.

In order to avoid damage to the device in the event of overload (max. 150kg), it is fitted with an overload cutout, which when triggered halts the lifting chair and issues an audible alarm. In the event of overload, run the chair down to the horizontal position/floor level.

With heavy loads on the Raizer, the chair may sink slowly if it is not in operation – this is completely normal. For safety reasons the Raizer is designed to sink slowly under heavy loads. This has been introduced in order to avoid mechanical breakage in the event of overload.

7. Personal safety



7.1 Avoiding personal injury

- To avoid personal injury it is NOT permitted to use the lifting chair when someone or something is at risk of being injured by crushing, cutting, falling, slipping, or similar.
- It is important that the assistant ensures that the chair can move without putting anyone or anything at risk.
- Be extra careful when there are children and physically or mentally challenged people on or near the chair, as these groups cannot always be expected to be able to foresee the possible consequences of its movements.
- Never load more on the chair than the 150kg stated on the loading sign as the maximum load.
- DO NOT use the lifting chair until the person is secured with the seat-fitted seatbelt.

7.2 Seatbelt

- The seat is fitted with a seatbelt to secure the person using the chair.
- DO NOT use the chair until this person is secured with the seatbelt around their hips.



After assembly of the Raizer under the person on the floor, fasten and click the seatbelt around the hips.

7.3 Handling

The Raizer will normally be supplied by your dealer. The chair is ready for use upon delivery.

The Raizer can be transported in the 2 supplied bags. One is a case for the seat itself. The seat is carried by the turquoise handgrip.

The back rest and legs are carried in the bags using carrying straps for hand or back (long strap for shoulders, or two straps as a backpack).



Do not subject the Raizer to severe knocks or blows as this can affect product functionality.

Keep the accompanying remote control* dry and do not subject it to severe blows, such as by throwing it or dropping it, etc. Cleaning may only be done using a well-wrung cloth.

Never use a high-pressure jet or running water to rinse the chair, as this can damage the product.

*Supplementary equipment

8. Functionality

The Raizer is a battery-powered mobile lifting chair which raises a fallen person up to an almost standing position in a few minutes. It can be operated by only a single assistant and requires no physical effort from the assistant aside from a helping hand.

It works by the assistant assembling the Raizer around the fallen person and is operated by using the button panel on the seat or by means of the remote control*. The assistant can raise the fallen person to a sitting or almost standing position ready for relocation.

To use the Raizer, hold down the button for the entire lift. The lifting will stop if the button is released.

9. Prior to use

NB: Ensure that the Raizer is always fully charged. 2 chargers are supplied with the device, and we recommend that it is always on charge when not in use. See also section 12.

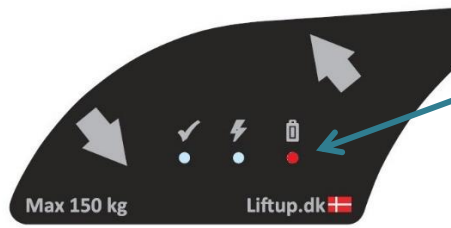
The Raizer can be stored wherever desired. However, lifting speed will be reduced if the battery temperature falls below 0°C. In practice, though, even if stored in a vehicle in a severe frost (-15°C), if charged, the Raizer will always be able to perform its task.

*Supplementary equipment

10. Operation

10.1 Assembly and use of the Raizer®

1



- Ensure that the Raizer is fully charged before use.
To turn it on, press the up or down buttons on the side of the Raizer.
A steady green LED indicates a fully-charged battery.

2



- Approach to the fallen person

3

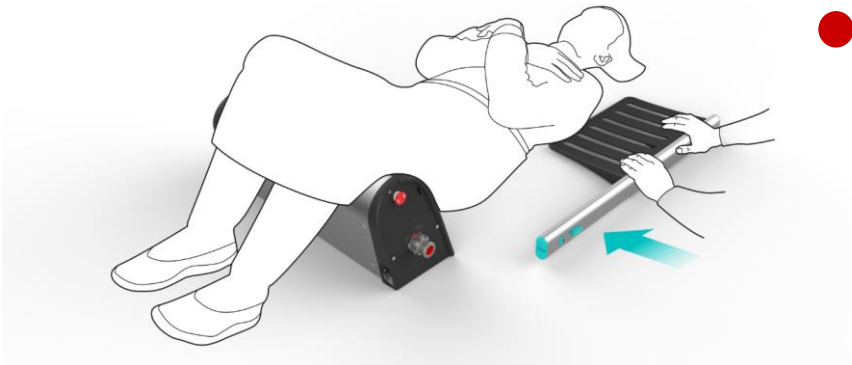


- Place the seat on the floor by the person's side.
- Lift the thighs to an angled position.
- Carefully push the seat in under the thighs.

10.2 Assembly of left-hand side

Items for assembly on the left-hand side are marked with a red circle.

1



- Turn the person's shoulder by a careful push of the elbow.
- Carefully push the back rest (marked red for left-hand side) in under the person's shoulder.

2



- Slide the back rest in and click into place in the seat.
- If necessary, place a foot in front of the seat to prevent it from moving forward.

3



- Push the rear leg (marked red for left-hand side) onto the shaft and click into place.

4

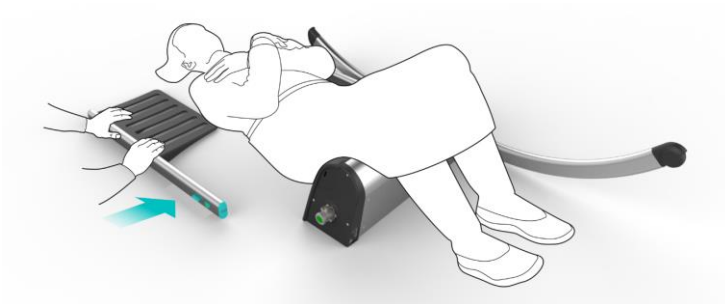


- Slide the front leg (marked red for left-hand side) into the seat and click it into place.
- Note that the snap-lock is to face outwards.

10.3 Assembly of right-hand side

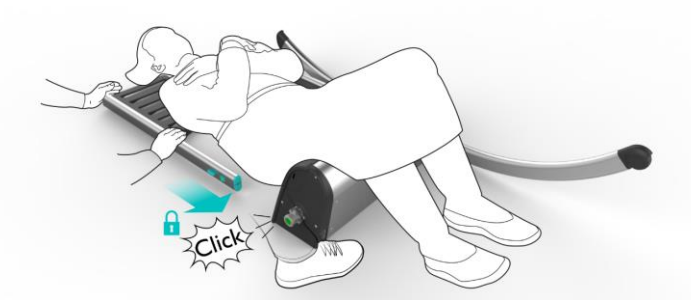
Items for assembly on the right-hand side are marked with a green circle.

1



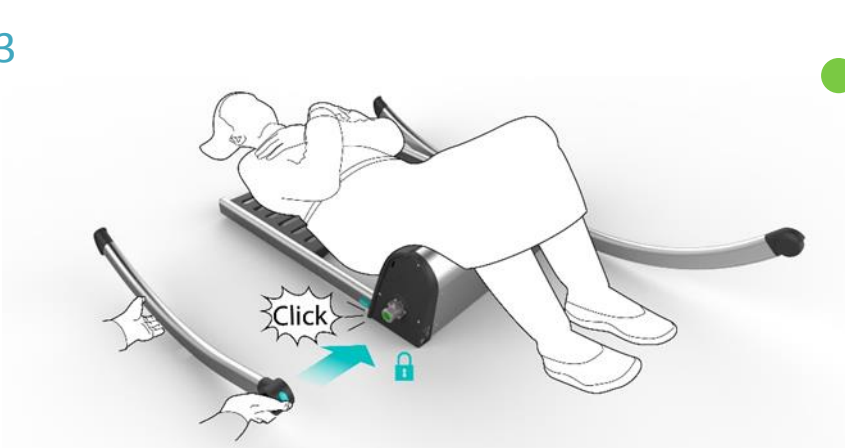
- Carefully turn the person's shoulder by a push of the elbow.
- Carefully push the back rest (marked green for right-hand side) in under the person's shoulder.

2



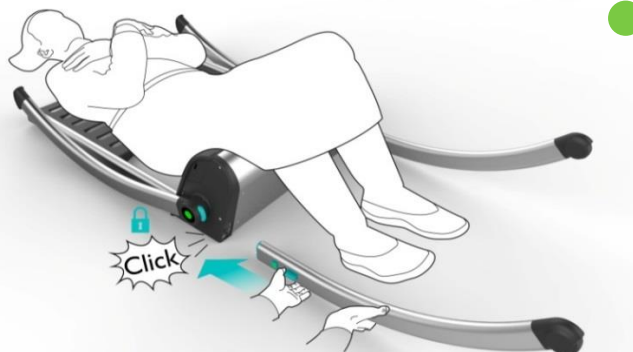
- Slide the back rest in and click into place in the seat.
- If necessary, place a foot in front of the seat to prevent it from moving forward.

3



- Push the rear leg (marked green for right-hand side) onto the shaft and click into place.
- Note: right-hand and left-hand rear legs are mounted on the drive shaft so they are parallel, i.e. in the same position as the opposite side

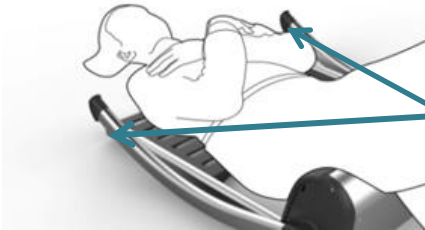
4



- Slide the front leg (marked green for right-hand side) into the seat and click it in place.
- Note that the snap-lock is to face outwards.



Only raise the chair when you are sure that the person’s feet, arms, hands or other body parts are not at risk of being struck or run over by the action of the chair!

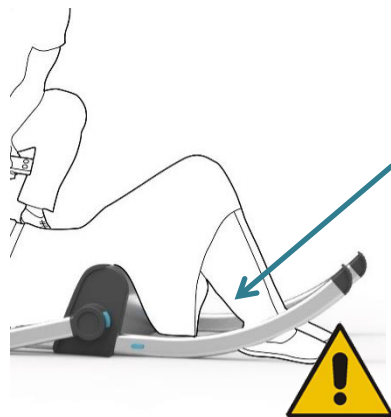


THE REAR LEGS

The rear legs are fitted horizontally and lie just above the floor along the shoulder (as in the illustration). Should this not be the case, be careful to fit both rear legs in parallel.



Be aware of the positioning of the shoulders and make sure that the arms are crossed upon the chest, due to the fact that the rear legs move down towards the floor as soon as the up button is pressed. This may put the person’s shoulders and arms at risk of injury if not positioned correctly.

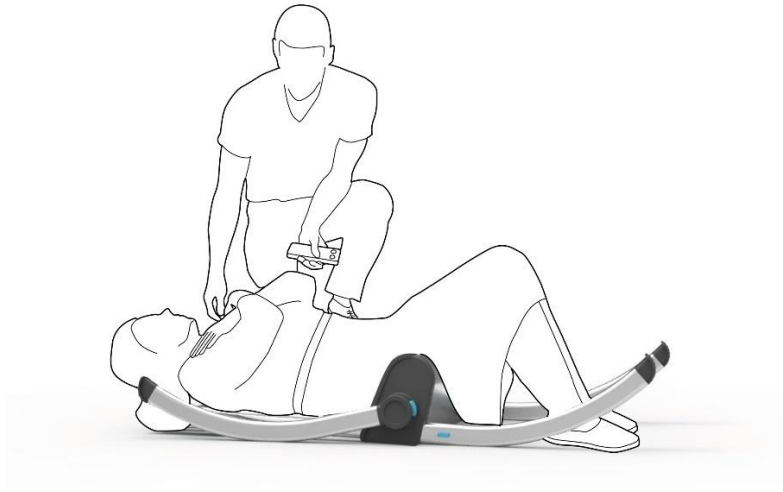


THE FRONT LEGS

Ensure that the person’s legs are together and their feet/legs are not at risk of getting in under a front leg when the chair is raised, as the front legs move toward the floor before the chair begins to lift its user.

10.4 Lifting of person


1



- After assembly of the Raizer under the fallen person, wrap and click the seatbelt around their hips.
- The Raizer is now ready to lift the user.

2



- Support the person's neck with one hand.
- Press the "up"  arrow" on the side panel or remote control*
- The Raizer can be operated from either side.

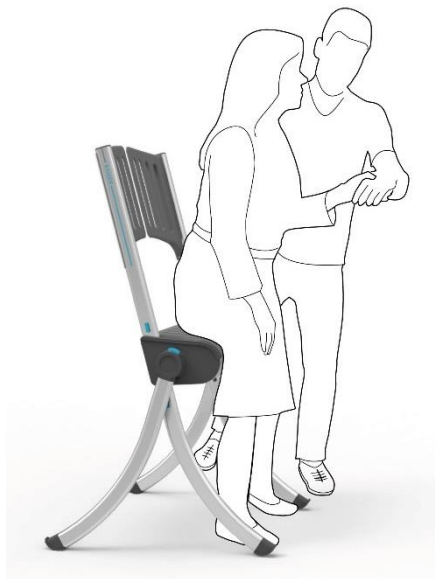
3



- Keep pressing the “up arrow” until the person is in the required position.



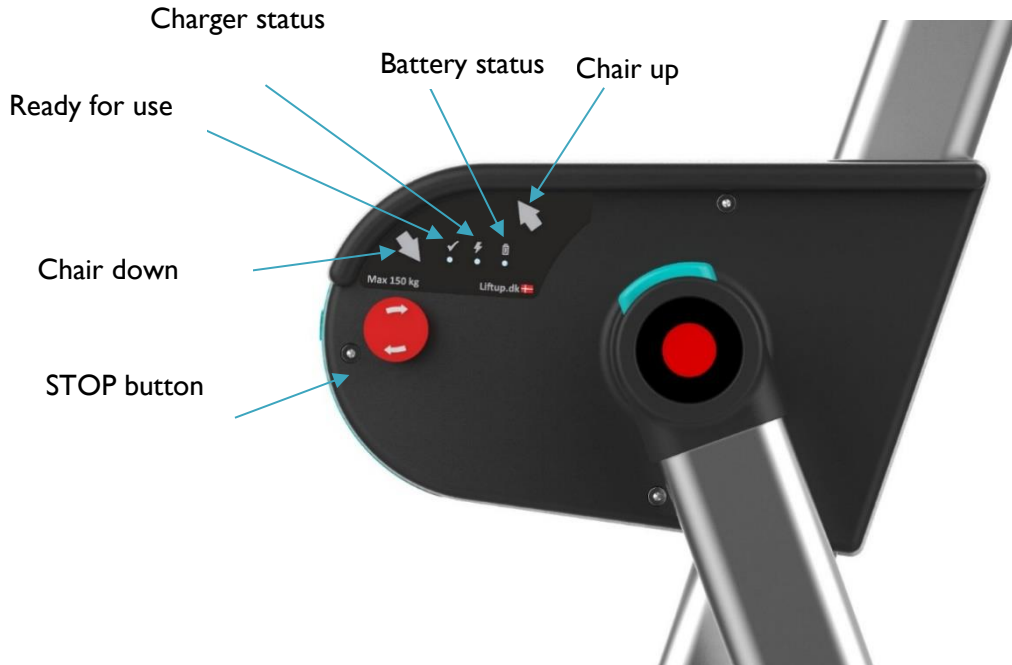
4



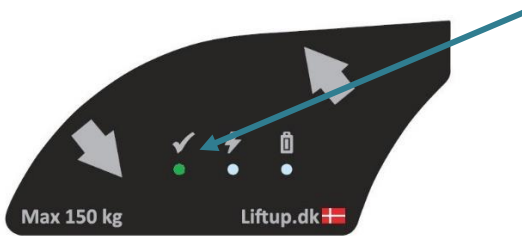
- The Raizer will automatically stop when the person is in a sitting position.

NB: The Raizer is prevented from moving too far up and will stop automatically in the top position, whereupon a long beep will be emitted.

10.5 Operation of the Raizer® by means of seat buttons

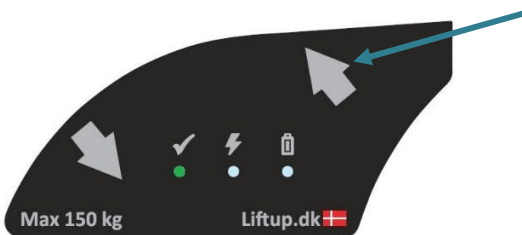


1



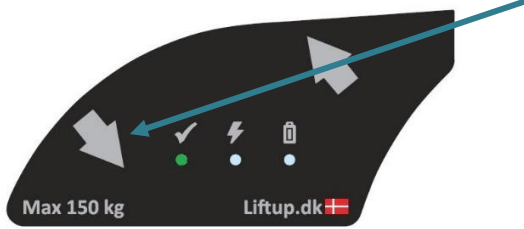
- The rotating legs must be fitted correctly before the Raizer can operate. The green LED will be lit when the device is ready for use. (see items 10.2 and 10.3 of section 10)
- Operate the Raizer with a continuous press of the “up arrow” or “down arrow” buttons.
- The Raizer will switch off automatically after not being used for 10 minutes (it will emit a long beep before powering down).
- Operate the Raizer by continuously pressing one of up/down arrows on the side of the chair.

2



- Press here to drive the lifting chair upwards.
- It will only run for as long as the button is activated.

3



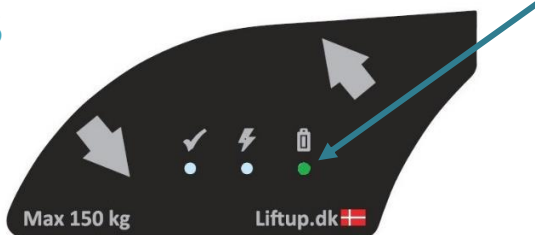
- Press here to drive the Raizer downwards.
- It will only run for as long as the button is activated.

4



- Press the stop button to deactivate the Raizer. All movement functions will be turned off.
- Turn the stop button in the direction of the arrows to reactivate the device.

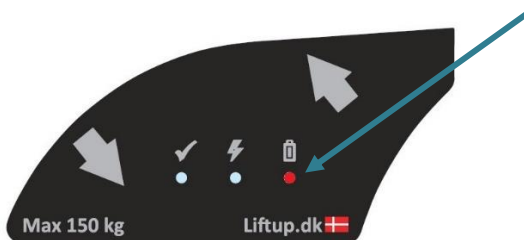
5



- The LED will be lit green when the device is more than 20% charged up.

NB: During operation with a load the LED can change to red – this is normal.

6



- The LED will be lit red to indicate a battery capacity of below 10%.
- In this state there is a max. of 0-5 lifts left in the battery. You will/need to charge the Raizer (see section 12, Charging).

10.6 Operation of the Raizer® by means of remote control

1



- Press here to drive the chair upwards.
- It will only run for as long as the button is activated.

NB: In order to operate the remote control the up/down button on the Raizer has to be activated (by a light press of the up/down arrows on the side of the chair)

2



- Press here to drive the chair downwards.
- It will only run for as long as the button is activated.

*Supplementary equipment

10.7 How to pair the remote control transmitter and receiver

How to reset transmitter and receiver:

To reset a remote control* so it is no longer associated with the Raizer, do as follows:

1. Press the UP (↑) and DOWN (↓) buttons on the remote control* at the same time and hold them down for approx. 5 seconds until the control LED on the remote control* begins to flash slowly. The remote control is now in installation mode for 2 minutes.
2. Perform the following within the 2 minutes:

Press: UP(↑), UP(↑), DOWN(↓), DOWN(↓), UP(↑), DOWN(↓), UP(↑), DOWN(↓)

When the control LED starts to flash quickly, the remote control* is no longer associated with the Raizer.

Pairing of extra remote control*

1. Ensure that there is power to the Raizer.
2. The Raizer must be switched off
The device will switch off automatically after 10 minutes without use (it will emit a long beep before powering down).
3. Press the UP (↑) and DOWN (↓) buttons on the remote control* at the same time and hold them down for approx. 5 seconds until the control LED on the remote control* begins to flash slowly. The remote control* is now in installation mode for 2 minutes.
4. Within these 2 minutes switch on the lifting chair you require associated with the remote control*. Press the up/down arrows on the side of the chair.
5. The control LED on the remote control* is associated with the lifting chair when it stops flashing.
6. Test the system so as to ensure the pairing has been performed correctly; if not, repeat 1-5 above.

*Supplementary equipment

II. Disassembly

1



- Run the Raizer into a horizontal position and disassemble.

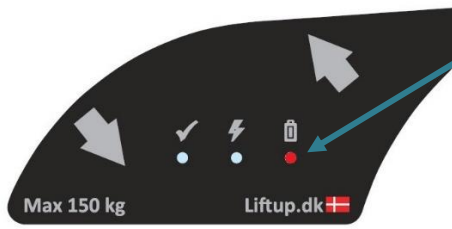
2



- Put all parts into the carrying bags.

12. Charging of the Raizer®

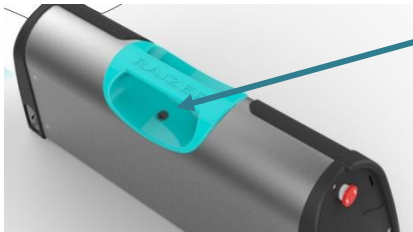
1



- The LED will be lit red to indicate a battery capacity of below 10%.

NB: This will only light when the chair is powered on.

2



- The charger socket is located below the handgrip of the seat.

3



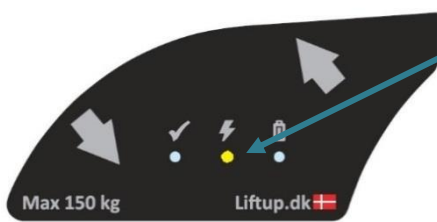
- Connect a 220 VAC charger to the socket on the Raizer

4



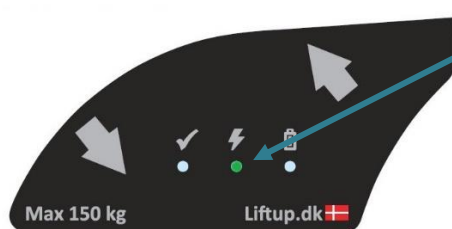
- Or connect a 12 VDC charger to the socket on the Raizer

5



- The LED will be lit yellow to indicate charging.

6



- A green LED indicates a fully-charged battery.

13. Maintenance

13.1 Cleaning:

The Raizer is not water-proof.

NB: General cleaning may only be done using a well-wrung cloth. DO NOT use running water, a high-pressure jet or a hose directly on the Raizer.

You can disinfect your Raizer using disinfectant sprays such as "Clinell".



13.2 Mechanical maintenance

The mechanical maintenance of the Raizer shall normally only be undertaken in connection with the regular annual service inspection. This is to be undertaken by a qualified service technician in accordance with the checklist in section 14.

Should unexpected errors or unusual sounds occur, contact your dealer at once: www.raizer.com.

13.3 Remote control

2 x AAA batteries are installed in the remote control*. NB: In order to ensure reliable function swap the batteries every 6 months. To swap the batteries, do the following:

1. Loosen the screw on the rear of the remote control*
2. Remove the back panel
3. Loosen the screw for the battery holder
4. Swap the batteries
5. Refit the battery holder
6. Refit the back panel and test



*Supplementary equipment

14. Maintenance checklist

In addition to the general maintenance described in section 13, we recommend routine annual inspections performed by a qualified service technician. The dealer you have bought the Raizer from will offer this service, but if you wish to use another service provider, you as the owner of the Raizer is responsible for ensuring that the chosen service technician is suitably qualified in the product in question.

For safety reasons it is very important that these inspections are maintained, since lacking or improperly performed inspections may result in personal injury.

All service inspections are to be logged in the service log book - see section 15.



15. Service log book



This form shall be filled in after every inspection.

Client:	Product:
Address:	Product Type No.:
Postcode:	Serial No.:
Telephone No.:	Installation date:

Contact Person:	Telephone No.:	Installed by:
Installation facts:	Lift: 2 Stop:	IN: Out: Stairs Timeout:

No.	Date:	Comments:	Signature:
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
12			
13			
14			
15			
16			
17			
18			
19			
20			



Liftup AS | Hagensvej 21 | DK-9530 Støvring | Denmark | T: +45 96 86 30 20 | M: mail@liftup.dk | www.liftup.dk




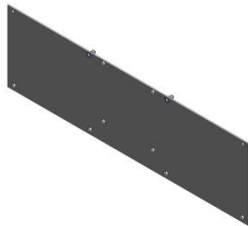
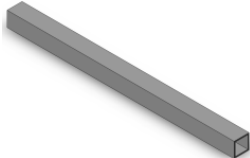




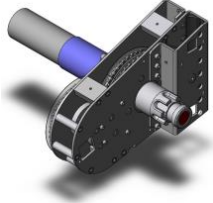
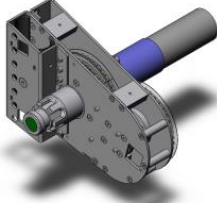

16. Spare parts

NB: It is important to use only original spare parts. Replacement of parts may only be undertaken by a qualified service technician.

The use of non-original spare parts may void the right of complaint. Furthermore, product safety may be compromised, which may pose a risk to personal safety.

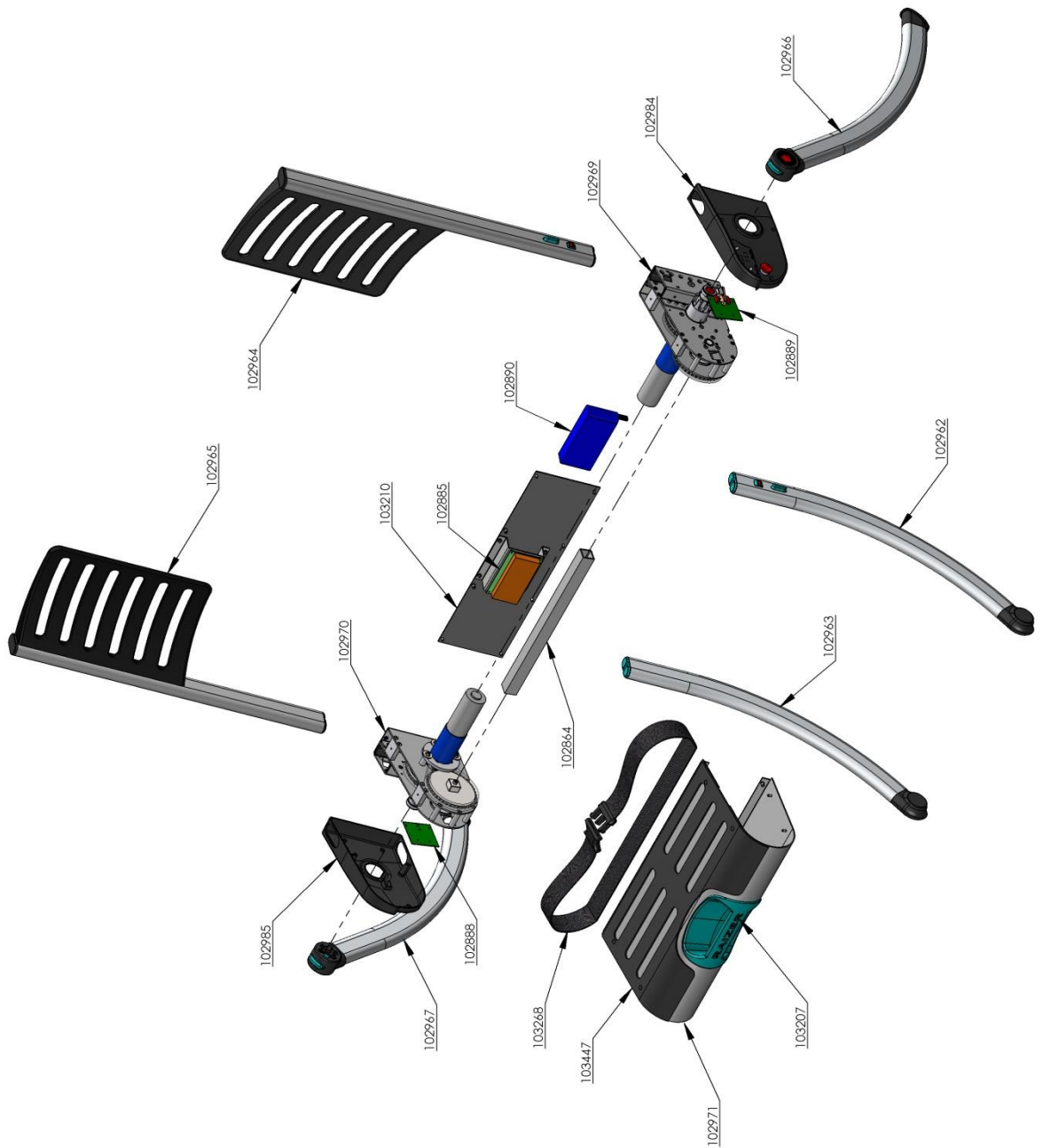
Part no.	Description	Photo/illustration
I02962	Front leg complete, left hand side / red (incl wheel)	
I02963	Front leg complete, right hand side / green (incl wheel)	
I02964	Back rest complete, left hand side, red	
I02965	Back rest complete, right hand side / green	
I02966	Rear leg complete, left hand side / red	
I02967	Rear leg complete, right hand side /green	

<p>I02971 Cover complete, Raizer</p>	
<p>I03207 Handle complete, Raizer</p>	
<p>I03447 Seat cover, sticky PUR</p>	
<p>I03210 Rear cover complete, Raizer</p>	
<p>I02864 Connecting rod for drive units</p>	
<p>I02885 Control Board, Raizer</p>	

<p>I02890 Battery 12V 5Ah LiFePo4 Raizer</p>	
<p>I02984 Side cover complete, left hand side (stop-button side)</p>	
<p>I02985 Side cover complete, right hand side</p>	
<p>I02969 Motor unit, complete left hand side / red</p>	
<p>I02970 Motor unit, complete, right hand side / green</p>	
<p>I02888 Raizer side PCB with RF Reciever,</p>	
<p>I02889 Raizer side PCB without.RF Reciever</p>	

<p>I03270 Screw kit, Raizer</p>	
<p>I02980 Micromatch Cable 12 pol, for Raizer</p>	
<p>I02921 Battery charger I205 SRP</p>	
<p>I02641 Cigarette lighter plug w .fuse for Raizer</p>	
<p>I03268 Seatbelt for Raizer complete</p>	
<p>I02956 Carry case for Raizer</p>	

<p>I01604 Remote control – transmitter unit (Supplementary equipment)</p>	
<p>I03311 Trolley, Raizer (Supplementary equipment)</p>	
<p>I03314 Triple Wheel, 2pcs. Trolley, Raizer (Supplementary equipment)</p>	
<p>I03313 Bike bracket kit, Trolley, Raizer (Supplementary equipment)</p>	

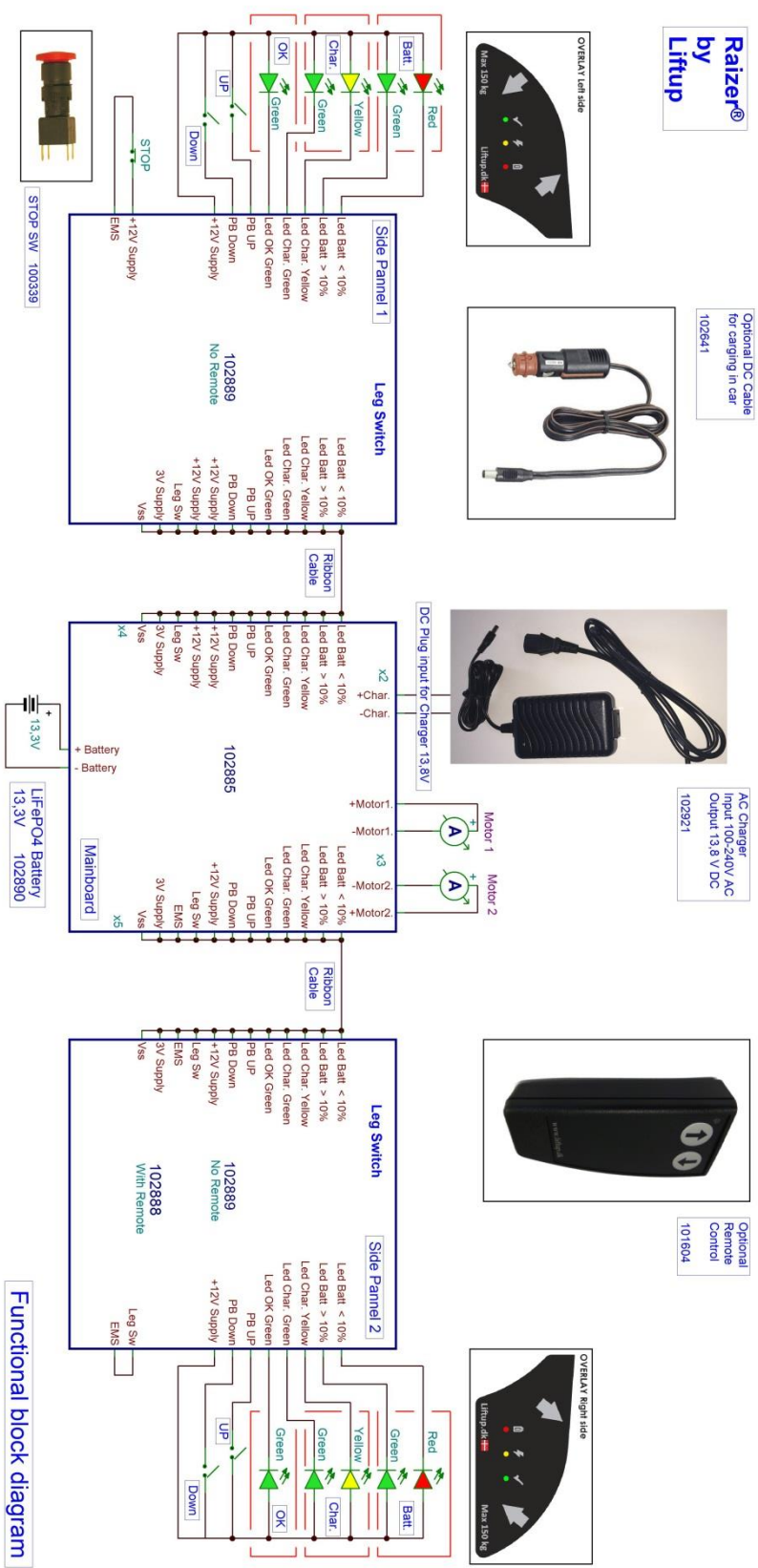


17. Troubleshooting

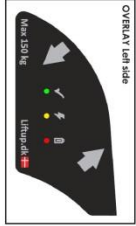
Issue	Cause	Solution
The Raizer does not run, even if the up/down arrows are pressed.	The stop button is activated. 2-tone alarm.	Turn the stop button in the direction of the arrows and it will click out. See section 10.2. Check that the ready-for-service LED is lit green.
	The rear legs are not correctly fitted. 2-tone alarm.	Check that the ready-for-service LED is lit green. If not: Fit the rear legs so that they click completely into the shaft. See section 10.1.
	The Raizer is overloaded. 2-tone alarm.	Remove the load from the Raizer. See section 6.3.
	The battery is depleted. See LED	Charge the Raizer battery. See section 12.
The Raizer runs askew, when the up/down arrows are pressed.	The legs are not fitted in parallel.	Fit left and right rear legs so they are in parallel. See section 10.1.
The Raizer stops at the top position.	The chair has reached the top stop. Long beep.	Completely normal. The chair has reached its max. height.
Remote control* does not work	The Raizer is not powered on/activated	Briefly press the up or down buttons on the side of the device
	The remote control* is not correctly paired with the Raizer.	See section 10.7.

*Supplementary equipment

18. Electrical diagram



Raizer®
by
Liftup



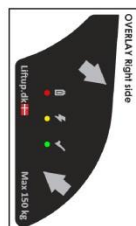
Optional DC Cable
for cabling in car
102841



AC Charger
Input 100-240V/AC
Output 13.8 V/DC
102921



Optional
Remote
Control
101504



Functional block diagram

19. Disposal

It is the duty of the owner to dispose of the product in accordance with the regulations applicable at the time.

Consider contacting your dealer for advice on disposal.

Please note that the motor unit contains batteries which must be disposed of separately.

20. Right of complaint

The right of complaint encompasses the at any time applicable rules regarding the right of complaint. Read more about this in the terms of sale and delivery.

<http://www.liftup.dk/en/about-liftup/general-conditions/>

NB: If the prescribed service inspections are not maintained the right of complaint may be lost. Failing to perform these inspections can also have serious consequences for product safety. It rests with the customer to ensure compliance with the prescribed service inspections at all times. Cf. Danish Working Environment Authority Executive Order 1109 §14.

Enjoy your new Raizer[®]

Best regards, Liftup