



Casalift 140E
Casalift 180E

Bedienungsanleitung

*zerlegbarer Patientenlifter
mit Fahrbeingrötschung*

DE

Operating manual

*Dismantleable patient lift
with spreading travel legs*

GB

Gebruiksaanwijzing

*Demontabele patiëntenliften
met rijpotenspreiding*

NL

Manuel d'utilisation

*Lève-personne démontable
avec dispositif d'écartement
des jambes*

FR

driveTM

1 Foreword

1.1 Introduction

The Casalift 140E / 180E is a lightweight and versatile lift device for use in patient and geriatric care situations. Use of the lift is facilitated considerably by its spreading travel leg design. After use, or for transport by car, it can be dismantled.

This manual was produced based upon the information available on the design and operation of the Casalift which was available at time of printing. We reserve the right to make changes due to technical advances.

Should you have any questions concerning the Casalift, please contact your specialist Drive Medical dealer (see dealer's stamp on the back of the envelope).

1.2 Intended use

The Casalift 140E / 180E should be used exclusively for the purpose of lifting and moving persons in need of care. It is only designed to move patients over short distances.

Improper use will lead to the exclusion of the manufacturer's liability.

The Casalift may only be used by persons who have received instruction from the owner, and under consideration of the condition of the patient being transported. In borderline cases, or if in doubt, consult the attending doctor.



Restriction on use!

Patients who are heavier than 140 kg/180 kg must not be lifted with the Casalift.

1.3 Information on the operating manual

1.3.1 Symbols used in the operating manual

The following symbols are used in the operating manual to identify particular hazards in using the product or information to simplify usage.



Caution!

This symbol identifies safety instructions which highlight risks in using the product.



Caution!

This symbol identifies safety instructions which highlight risks of crushing and trapping when using the product.



Note

Under this symbol, you can find helpful information on using the product.

1.3.2 Information on the operating manual

Carefully read through the operating manual before assembling the Casalift and bring it into service!

Make sure that:

- all persons who are to use the Casalift have read the operating manual.
- all persons charged with setting up or maintaining the Casalift always have access to the operating manual.

Damage caused through a failure to follow the information in the operating manual is excluded from any and all warranty claims.

The illustrations which appear in this operating manual are only examples of how to use Drive Medical patient lifts, and may differ from your actual model.

2 Safety

2.1 Safety instructions

2.1.1 Safety instructions – General



Risk of accident!

- *Only use the Casalift for its intended use. The Casalift is not a piece of gymnastics or playground equipment.*
- *Only use the Casalift if it is in a technically sound condition.*
- *Only use slings, sling seats or reclined slings which are in perfect condition. Replace sling systems which are damaged or heavily worn immediately!*
- *All faults which have a bearing on the function and safety of the Casalift must be rectified without delay by a specialist dealer.*

2.1.2 Safety instructions – Assembly



Risk of trapping! Risk of crushing!

- *There is an increased risk of trapping and crushing at all joints of the Casalift.*
- *While assembling the product, pay particular attention to these danger points.*



Risk of injury due to incorrect assembly!

- *Make sure that all parts of the Casalift are assembled in the proper manner.*
- *After assembly is complete, check all adjustment devices for perfect functioning.*



Risk of injury!

- *Only use suitable tools to perform such work.*
- *Only carry out the work if you are familiar with the usage of the tools in question.*

2.1.3 Safety instructions – Users



Risk of accident!

- *Each time before operating the product, check that the wheel brakes are working perfectly.*
- *Secure the Casalift by locking the wheel brakes:*
 - *when halting movement temporarily*
 - *when switching off the unused Casalift*
- *Each time before use, check the condition of the Casalift and all slings on the supporting framework.*
- *Only use the Casalift on a firm and level surface.*
- *Avoid slopes and slippery surfaces.*
- *Patients who are uneasy should be supported by an additional assistant. Inform this assistant of possible hazardous situations.*
- *Do not drive over any obstacles.*
- *Take care when moving through restrictive areas, e.g. doorways or narrow corridors.*
- *Do not move the Casalift with the travel legs spread.*
- *Exercise particular care when going around corners.*
- *Only use the handles to move the lift.*
- *Place the person you intend to transport in as low and comfortable a position as possible.*
- *Never leave the Casalift unattended when it is occupied by a patient.*
- *Do not use the Casalift under the shower.*



Risk of trapping! Risk of crushing!

- *There is an increased risk of trapping and crushing at all joints of the Casalift.*
- *Take particular care when adjusting the lift that no-one reaches into these danger areas.*

2.1.4 Safety instructions – Maintenance and inspection

All maintenance work may only be performed by properly trained and experienced personnel.



Danger due to mechanical faults!

- *Have the prescribed maintenance tasks performed at the intervals stated.*
- *Immediately discontinue use of the Casalift if it is faulty, and secure it to prevent unauthorised use.*
- *Do not make any modifications to the mechanical equipment of the Casalift which are not approved by the manufacturer. If unauthorised changes are made, the manufacturer will not be bound by any claim for liability.*
- *Only use suitable tools to perform maintenance and repair tasks.*
- *Only use accessories and spare parts which are approved by Drive Medical.*
- *After maintenance and repair work, always carry out a function test on the brakes!*

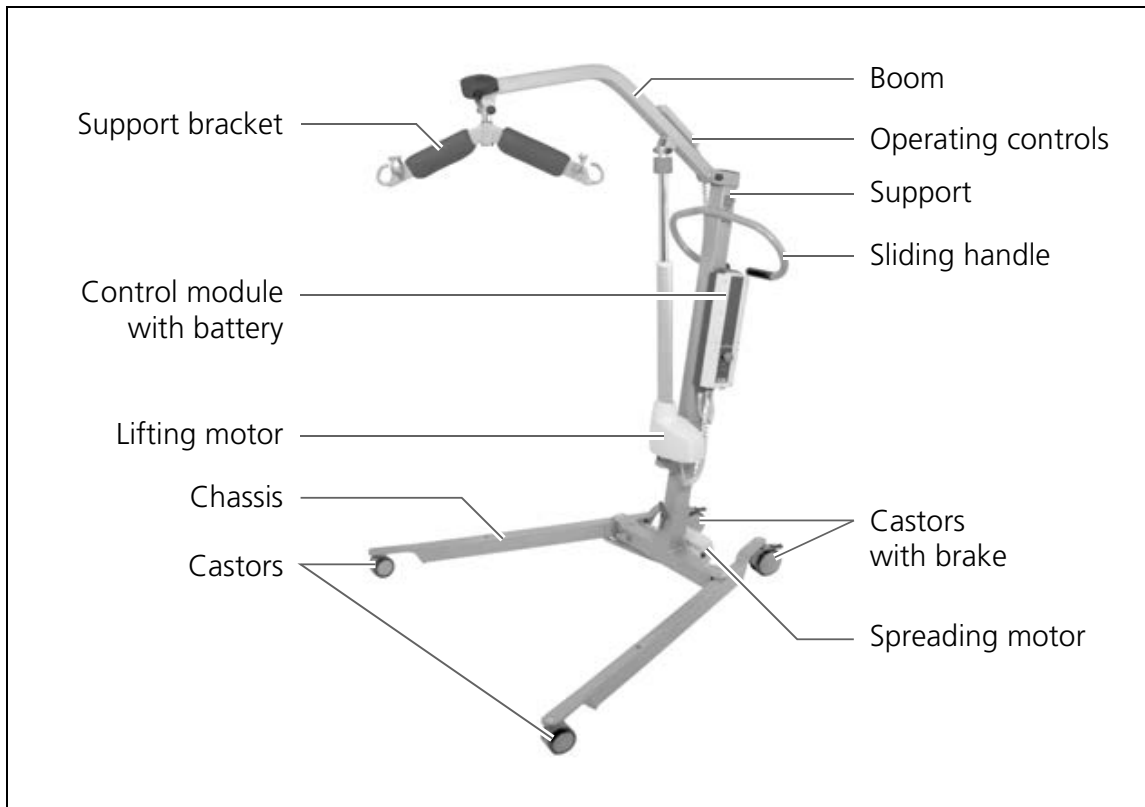
3 Delivery and transport

The Casalift is supplied packing in a box. Check the contents of the packaging for completeness before commencing with the assembly of the Casalift.

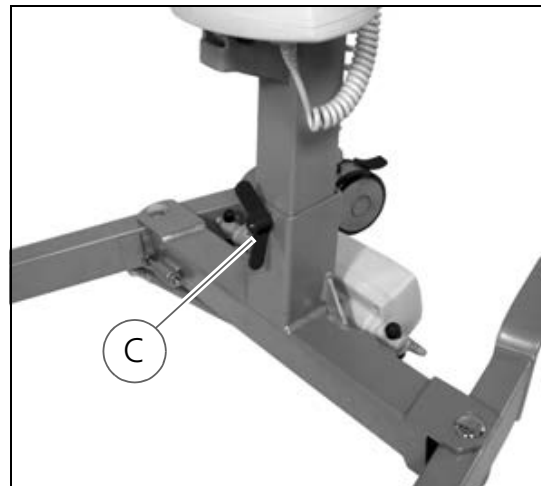
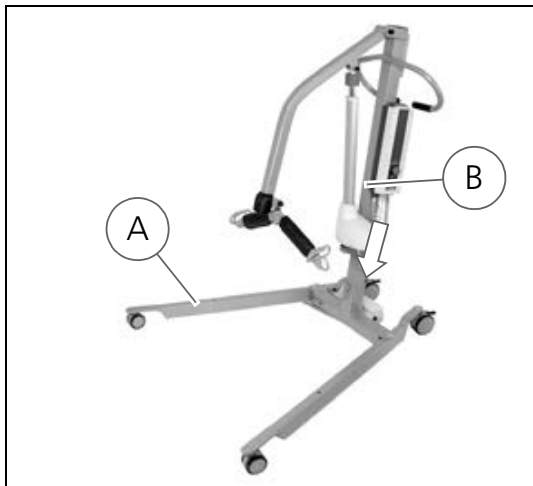
Should you detect any defects or missing components, please contact your specialist Drive Medical dealer (see dealer's stamp on the back of the envelope).

The Casalift can be dismantled in just a few steps, meaning that it can also be comfortably transported in small vehicles.

4 Components and assembly of the Casalift

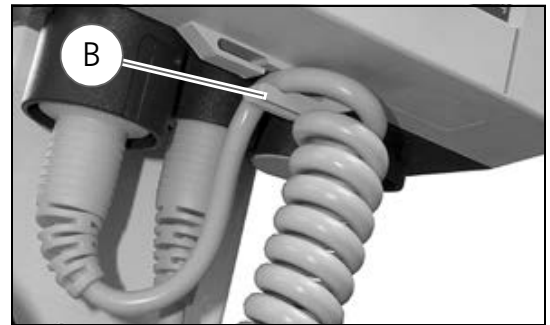
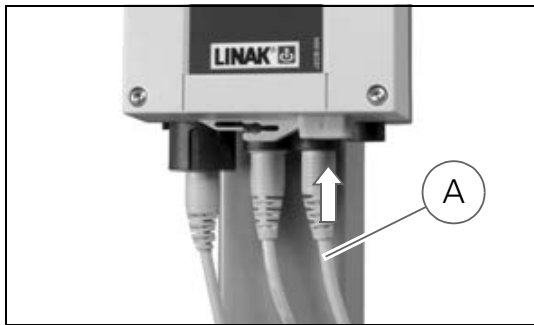


4.1 Assembly – Inserting the support



1. Position the chasis (A) and lock all wheel brakes on the Casalift (see page 28).
2. Insert the support (B) into the receptacle on the chasis.
3. Tighten the locking screws (C) in a clockwise direction.

4.2 Assembly – Connecting the spreading motor



1. Plug connector (A) into the socket on the control module.
The sealing ring on the connector must not be damaged while being plugged in.
2. Hook the cable for the operating controls into the cord grip (B).

5 Safety devices

5.1 Safety devices – EMERGENCY STOP button

Switching on

- Press the EMERGENCY STOP button (A).
After the EMERGENCY STOP button is pressed, the lifting motor stops immediately. It can no longer be activated with the operating control.

Switching off

- Turn the EMERGENCY STOP button to the right (B).
The EMERGENCY STOP button is unlocked. The lift is ready for use again.

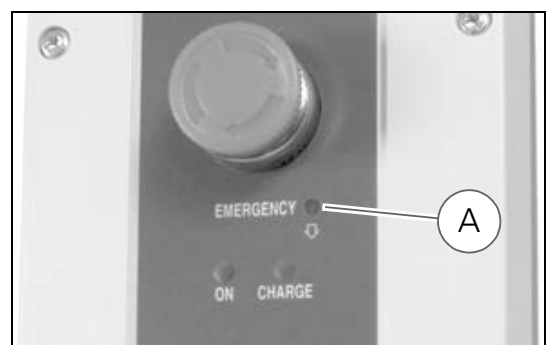


5.2 Safety devices – Emergency lowering function (electric)

The boom of the Casalift can be lowered electrically if the operating control fails.

Lowering the boom

- Press button (A) on the control module (e.g. with a pen).
The boom slowly lowers.

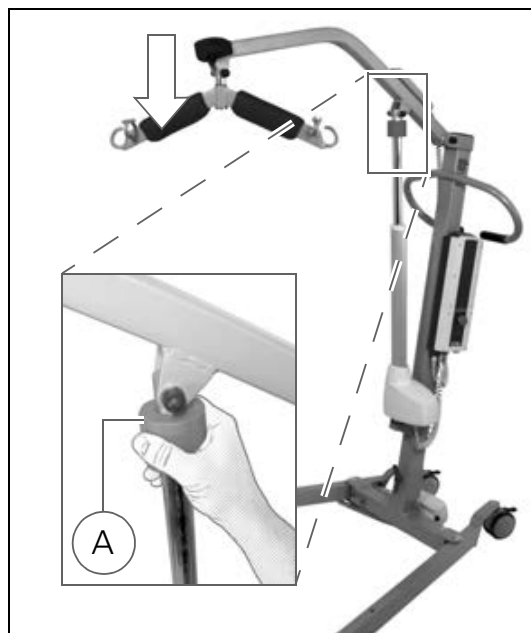


5.3 Safety devices – Emergency lowering function (mechanical)

The boom of the Casalift can be lowered mechanically if the lifting motor or control module fail.

Lowering the boom

- Turn the red actuator head (A) in a clockwise direction.
The boom can then be lowered manually.



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6 Operating the Casalift



Note

Before putting the lift into service for the first time, the battery must be charged (see page 28).

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6.1 Approved sling systems

Only use the Casalift with sling systems which have been approved by Drive Medical

Attaching the sling system

- Hook the loops of the sling system into the corresponding eyes on the support bracket.



Note

For certain sling systems, the boom is replaced by a lifting frame.



Caution!

Follow the operating instructions of the chosen sling system in all circumstances!

6.2 General safety measures

When moving the lift, note the following points:

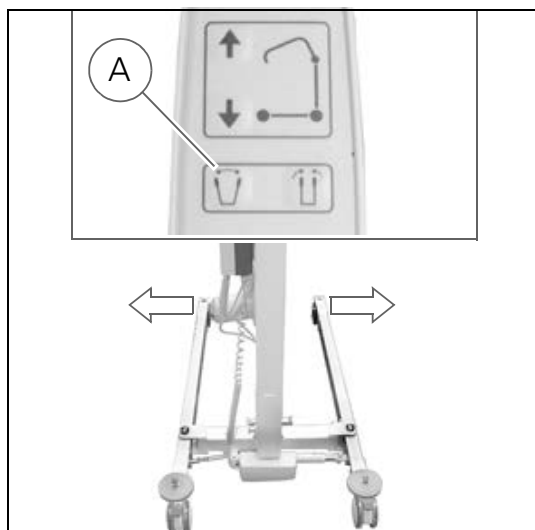
- Make sure, before lifting or lowering the patients, that no objects are obstructing the path of the boom.
- Observe the person in the Casalift and the surroundings while moving the boom.
- Avoid running the actuators continuously for more than 2 minutes (intermittent service).
- Maximum actuation time of the actuators = 2 minutes.
- Before switching off the Casalift, always move the boom to the lowest level.

6.3 Lifting/transporting/lowering a patient

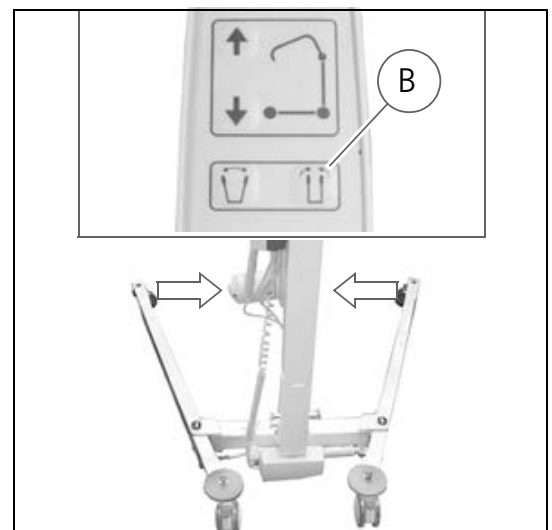
Please note:

- Before lifting or lowering, spread the travel legs
- Before, moving the chassis, reset the legs to their original position

6.3.1 Chassis – Spreading the travel legs / Resetting the legs to their original position



To spread the travel legs, press button (A) on the operating controls.

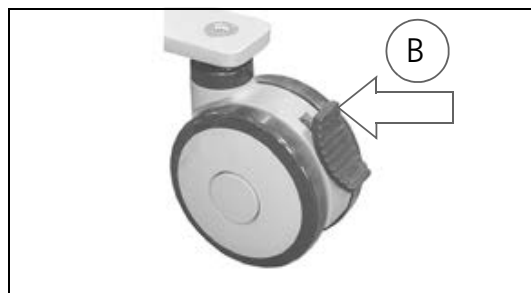


To reset the legs to their original position, press button (B) on the operating controls.

6.3.2 Operating the brakes



(A) To lock the wheel brakes.

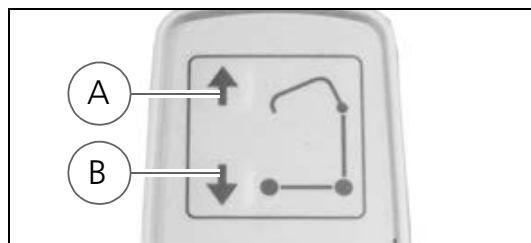


(B) to release the wheel brakes.

6.3.3 Operating the boom

Press the button for the desired direction.

- Lift the boom (A)
- Lower the boom (B)



Note

- The boom can be repositioned 15 to 40 times between battery charges, depending on the weight of the individual.
- When the boom reaches its end position, or if it is blocked by an obstacle, the control module switches the lifting motor off.

7 Battery

7.1 Charge indicator

The operating controls provide an indication of the current charging status of the battery. If a beep sounds when a button is pressed, the battery is 50% discharged. Recharge the battery after this use.

7.2 Charging the battery

7.2.1 Charging information

- The battery must be charged for at least 10 hours before the first use.
- The battery must be charged once a month even if the product is not being used, as it will otherwise discharge itself over the course of time, eventually becoming deeply discharged and therefore no longer serviceable.
- The ambient temperature should be between 10 and 30°C. In lower temperatures, charging takes longer.
- Only charge the battery in dry environments.

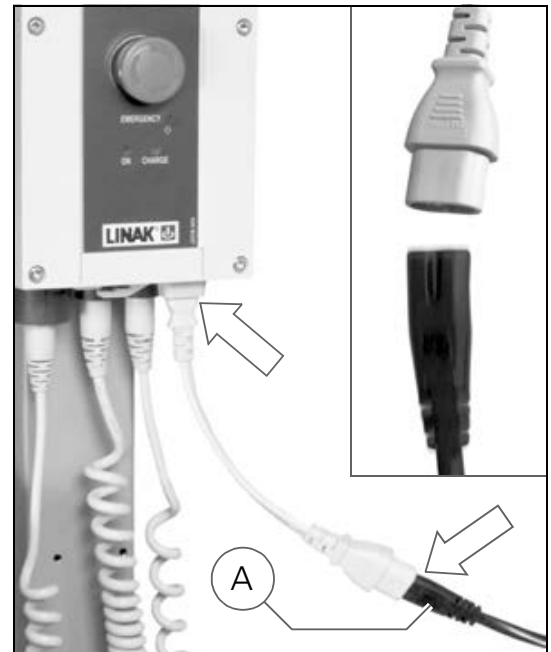
- The charger has an automatic shut-off function, which prevents the battery from being overcharged.
- The Casalift must not be used for moving patients during the charging process.
- Depending on the amount by which the battery is discharged, the charge time will be between 5 and 14 hours.

7.2.2 Connecting the charger

1. Plug adaptor into the socket on the control module.
2. Plug connector (A) of the charging cable into the adaptor.
3. Plug mains plug of the charging cable into a socket (230 V~/50Hz).

After charging:

1. Pull the mains plug of the charging cable out of the socket.
2. Pull connector (A) of the charging cable out of the adaptor.
3. Pull adaptor out of the socket on the control module.

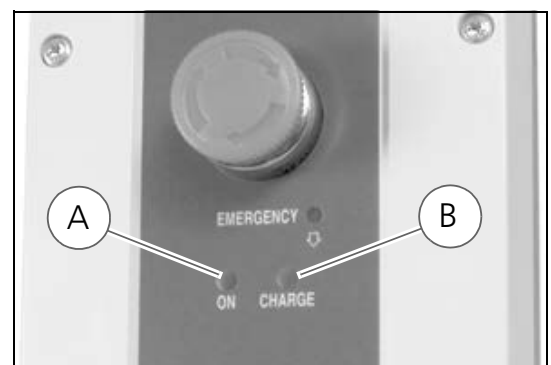


Caution!

Pay particular attention to the order of the steps when connecting and disconnecting the charging cable.

7.2.3 LEDs on the control module

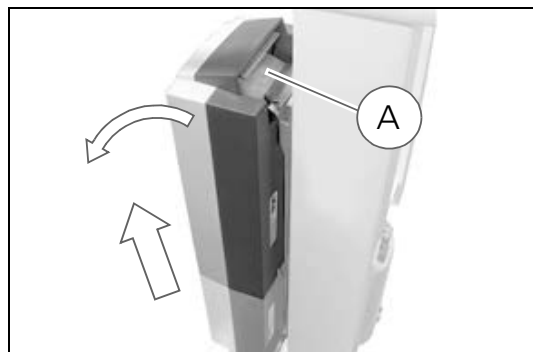
- LED (A) lights up green and LED (B) lights up orange:
On charge
- LED (A) lights up green and LED (B) does not light up:
Fully charged



7.3 Charging the battery using the charging station (accessory)

7.3.1 Removing the battery

1. Pull out the locking lever (A).
2. Pull away the battery at the top end.
3. Remove the battery in an upwards direction.

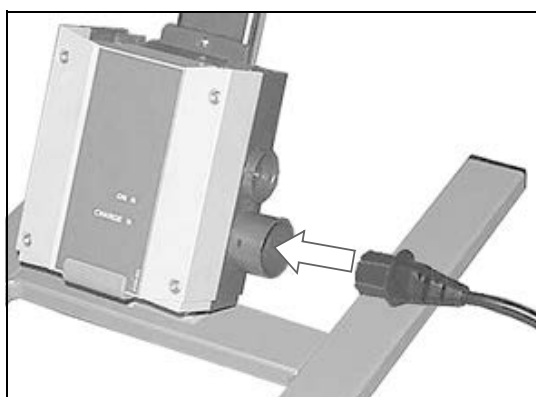


7.3.2 Charging the battery



Caution!

Pay close attention to the order of the steps for connecting and disconnecting the charging cable.



1. Plug the mains plug into the socket on the charging station.
2. Insert the battery into the charging station.
3. Insert the mains plug of the charging station into the socket.

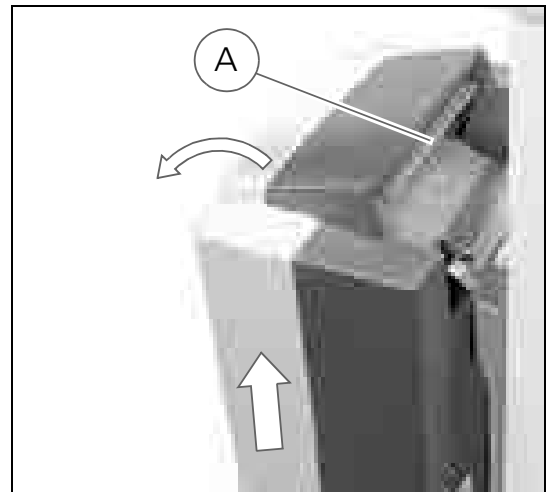


Note

The charger switches on automatically after the mains plug is plugged in.

7.3.3 After charging

1. Unplug the mains plug of the charging station.
2. Remove the battery from the charging station.
 - Pull out the locking lever (A).
 - Pull away the battery at the top end.
 - Remove the battery in an upwards direction.



7.3.4 Inserting the battery

1. Insert the battery into the retainer at the top and into the receptacle on the patient lift control module at the bottom.
2. Press the battery into place until the locking mechanism engages.



8 Cleaning

Remove slight dirt and dust with a soft cloth. You can remove heavy deposits of dirt with a damp cloth and mild soapy water. After cleaning, dry the Casalift with a dry cloth!



Note

- Do not use any sharp-edged tools (knives, metal spatulas) or aggressive solvents for cleaning.
- Do not use a pressure washer for cleaning purposes.
- Do not use scouring agents to clean surfaces, instead use a mild cleaning agent.
- In order to avoid damage to the component surfaces, not the instructions for use for the particular cleaning agent.

9 Disinfection

If disinfection is required during use, only suitable agents should be used.

10 Reuse

The Casalift is intended for reuse. Before such reuse, it must be cleaned and disinfected.

11 Maintenance and inspection



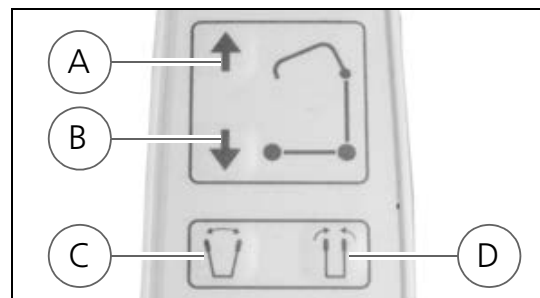
Danger due to electrical and mechanical faults!

- Immediately discontinue use of the Casalift if it is faulty, and secure it to prevent unauthorised use.
- Report any defects which are discovered immediately to the appropriate parties!

11.1 Maintenance – Daily

The following routine inspections should be performed by nursing staff or those persons responsible before every use:

- Visual inspection of all components of the Casalift for damage.
- Check function of the parking brakes.
- Check function of the lifting motor:
 - Lift (A)
 - Lower (B)
- Check function of the spreading motor:
 - Spread (C)
 - Reset (D)



11.2 Maintenance – Annually

11.2.1 Requirements of inspection personnel

All inspection work described in the following may only be carried out by experienced personnel. The evaluation of the inspection list and servicing of the Casalift may only be performed by experienced personnel in possession of the appropriate training, knowledge and experience.

11.2.2 Inspection intervals

Inspection intervals depend upon the type of use the Casalift is subjected to.

- Under normal environmental and operating conditions, Drive Medical recommends inspection intervals of 1 year for inspecting the mechanical and electrical components, and for the metrological control according to BGV A3.
- When the lift comes to be used again, the inspections should take place before each reuse (after assembly), and then annually.
- The inspection intervals should be shortened if the Casalift is subjected to an increased load (e.g. in nursing homes).
- In case of any doubt, please contact your specialist Drive Medical dealer (see dealer's stamp on the back of the envelope).

11.2.3 Inspection report (template)

Description		Evaluation	
Component	Inspection type	OK	Defective
Operating controls	Visual inspection of cable and plug	<input type="checkbox"/>	<input type="checkbox"/>
	Electrical function	<input type="checkbox"/>	<input type="checkbox"/>
Lifting motor	Visual inspection of cable and plug	<input type="checkbox"/>	<input type="checkbox"/>
	Electrical function	<input type="checkbox"/>	<input type="checkbox"/>
	Electrical emergency lowering function	<input type="checkbox"/>	<input type="checkbox"/>
	Mechanical emergency lowering function	<input type="checkbox"/>	<input type="checkbox"/>
Charging cable	Visual inspection for damage	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical spreading mechanism	Joints free of play	<input type="checkbox"/>	<input type="checkbox"/>
	Operates smoothly	<input type="checkbox"/>	<input type="checkbox"/>
Electrical spreading mechanism	Joints free of play	<input type="checkbox"/>	<input type="checkbox"/>
	Operates smoothly	<input type="checkbox"/>	<input type="checkbox"/>
Control module	EMERGENCY STOP function	<input type="checkbox"/>	<input type="checkbox"/>
	Housing undamaged	<input type="checkbox"/>	<input type="checkbox"/>
	Proper fastening to the support	<input type="checkbox"/>	<input type="checkbox"/>
Battery charger	Measure voltage	<input type="checkbox"/>	<input type="checkbox"/>
	Replace battery every 4 years	<input type="checkbox"/>	<input type="checkbox"/>
Support	Visual inspection of welds	<input type="checkbox"/>	<input type="checkbox"/>
	No damage	<input type="checkbox"/>	<input type="checkbox"/>
	Securely fitted into the chassis	<input type="checkbox"/>	<input type="checkbox"/>
Boom	Visual inspection of welds	<input type="checkbox"/>	<input type="checkbox"/>
	No damage	<input type="checkbox"/>	<input type="checkbox"/>
	Joints free of play	<input type="checkbox"/>	<input type="checkbox"/>

Description		Evaluation	
Component	Inspection type	OK	Defective
Support bracket	Visual inspection of welds	<input type="checkbox"/>	<input type="checkbox"/>
	No damage	<input type="checkbox"/>	<input type="checkbox"/>
	Connection to boom	<input type="checkbox"/>	<input type="checkbox"/>
Chassis	Visual inspection of welds	<input type="checkbox"/>	<input type="checkbox"/>
	No damage	<input type="checkbox"/>	<input type="checkbox"/>
	Castors undamaged	<input type="checkbox"/>	<input type="checkbox"/>
	Function of the brakes	<input type="checkbox"/>	<input type="checkbox"/>
Stress test 140.0 kg (Casalift 140E)		<input type="checkbox"/>	<input type="checkbox"/>
Stress test 180.0 kg (Casalift 180E)		<input type="checkbox"/>	<input type="checkbox"/>
Perform metrological control (see page 34)		<input type="checkbox"/>	<input type="checkbox"/>

11.2.4 Metrological control

In some countries of the European Union, the following list of measurements are prescribed by law (in Germany according to BGV A3).

It is the responsibility of the owner of the Casalift to determine the situation in their particular country.

The following measurements may only be made by trained and experienced personnel using appropriate measuring instruments. Any defects which are established must be notified immediately to the appropriate parties and rectified.

Description	Evaluation	
	OK	Defective
The following measurements must be made acc. to DIN VDE 0751:		
Alternative leakage currents	<input type="checkbox"/>	<input type="checkbox"/>

Information on measuring the alternative leakage currents:

Typical value: < 20 μ A

Inspection point: Short-circuited mains plug (L+N) to bare, metallic points on the frame of the charging station (screws, etc.)

12 Troubleshooting

- Do not open any electronic components, as this will void the warranty and the manufacturer's liability for the product.
- Under normal circumstances, the lifting motor can still travel independently to the bottom position, even when the battery is almost flat.
- If you are unable to rectify the fault, please contact your specialist Drive Medical dealer (see dealer's stamp on the back of the envelope).

Fault	Possible cause	Remedy
Boom does not move, despite a button on the operating controls having been pressed. No audible or visual charge reminder signal can be detected.	EMERGENCY STOP button has been pressed.	Unlock the EMERGENCY STOP button by turning it to the right.
	Connectors are not plugged into the control module properly.	Plug the connectors into the control box properly.
	Battery flat.	Charge battery.
	Battery defective.	Replace the battery.
	Lifting motor defective.	Replace lifting motor.
	Control module defective.	Replace control module.
Lifting or spreading motor does not respond	Operating control defective	Replace operating controls. If you can clearly hear a click in the control module when pressing and releasing the button, a defect in the operating control can be excluded. Possible cause of fault: control module defective!
	Lifting motor defective.	Replace lifting motor.
	Spreading motor defective	Replace spreading motor
	Control module defective.	Replace control module.

13 Shutdown

If you do not intend to use the Casalift for an extended period, prepare it in the following way:

- Remove dirt and dust.
- Full charge the battery.

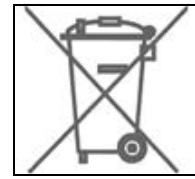
Care during the product service life:

Charge the battery once a month (see page 28).

14 Disposal

The Casalift consists of metal and plastic components, electronic components, electrical cables and a battery.

- The disposal of the individual materials should be performed in accordance with the environmental and waste disposal regulations of the country in question.
- The Casalift must not be disposed of with household waste, but rather taken to local authority recycling points.
- The battery and all electrical and electronic components must not be placed in the household waste. They must be disposed of in the proper manner and delivered to the specified disposal points.

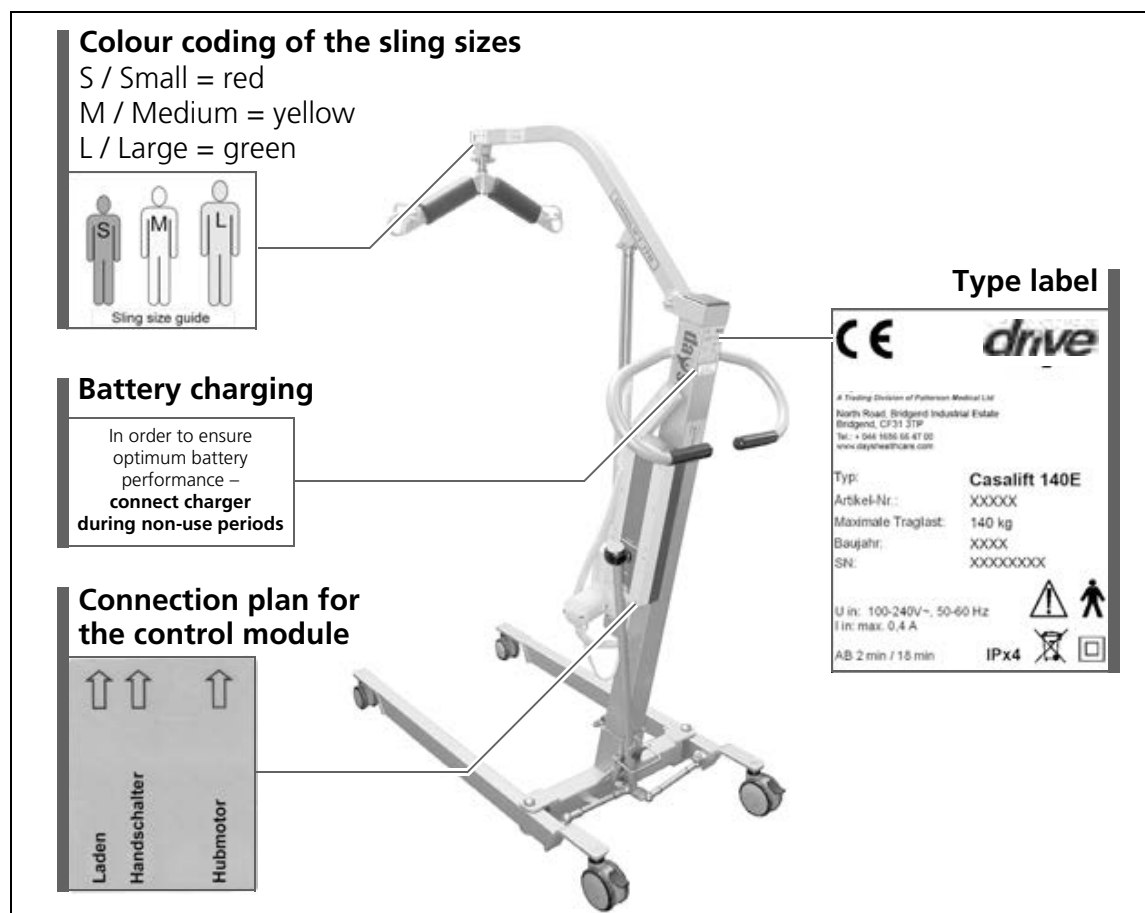


Note

Should you have any questions concerning disposal, please contact your local authority's waste disposal sites or your specialist Drive Medical dealer (see dealer's stamp on the back of the envelope).

15 Appendix

15.1 Position of the information labels



15.2 Information on the type label



CE mark
acc. to 93/42/EEC



Instruction on disposal

U in: 100-240 V~, 50-60 Hz =
mains voltage in volts



Caution, follow the operating instructions

I in: max. 0.4 A =
maximum current consumption in amperes



Maximum actuation time of the actuators = 2 minutes
Minimum break of 18 minutes after 2 minutes



Protection class
(splash-proof)



Application part, type B



Safety class II (insulated)

15.3 Technical specifications

Lifting range (measured from the floor to the support bracket)	47 cm - 183 cm
Load-bearing capacity	Casalift 140E: 140.0 kg Casalift 180E: 180.0 kg
Number of lifts per battery charge	approx. 40 lifts with patient weight of 85 kg
Charging time	approx. 5 - 14 hours
Control module with battery	Input: 100 V- 240 V AC Max. on-time: 15% For continuous running, max. 2 mins/ 5 switching cycles per min.
Lifting motor	Input: 24 V DC Protection class: IP x4
Spreading motor	Input: 24 V DC Protection class: IP x5
Operating controls	ON/OFF switch and electrical spreading mechanism
Chassis	Travel legs spreadable, 4 lightweight, 360°-rotatable castors, 2 of which with locking device to prevent turning and rolling
Weights	Total weight: 35.0 kg

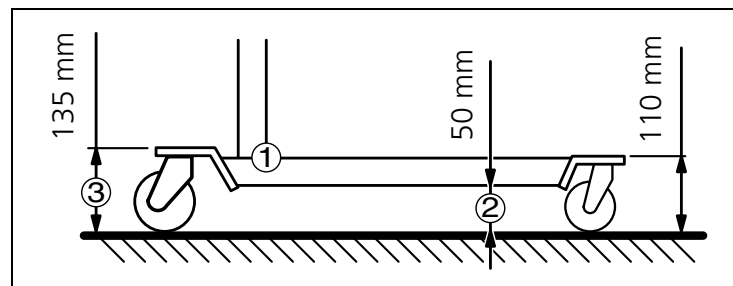
15.4 Dimensions

Chassis width (travel legs parallel)	590 mm
Chassis width (travel legs spread)	1160 mm
Chassis length	1150 mm
Chassis height with castor diameter 75 mm	120 mm
Chassis height with castor diameter 100 mm	135 mm
Overall lift height (boom at lowest position)	1340 mm
Boom length	790 mm



15.4.1 Clearance and height of the chassis

- 1 Chassis
- 2 Min. clearance
- 3 Max. height



15.5 Accessories

You can find more accessories and various sling system sizes and versions in the price list.

To order items, please contact your specialist Drive Medical dealer (see dealer's stamp on the back of the envelope).

15.6 Spare parts

Spare parts can be procured from your specialist Drive Medical dealer. Only original Drive Medical spare parts should be used (see dealers stamp on the back of the envelope).

15.7 Warranty

Drive Medical provides a 24 month warranty on the workmanship of the Casalift, based upon its General Terms and Conditions of Business.

Stempel des Fachhändlers
Dealer stamp
Tampon du revendeur
Stempel van de vakhandelaar

The logo for Drive Medical, featuring the word "drive" in a bold, italicized, lowercase sans-serif font. A small "TM" trademark symbol is positioned at the top right of the letter "e".

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