

Maxi Twin

Instructions for Use



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Foreword

Thank you for purchasing ArjoHuntleigh equipment.

Your *Maxi Twin* mobile passive lift is part of a series of quality products designed especially for hospitals, nursing homes and other health care use.

We are dedicated to serving your needs and providing the best products available along with training that will bring your staff maximum benefit from every ArjoHuntleigh product.

Please contact us if you have any questions about the operation or maintenance of your ArjoHuntleigh equipment.

Please read this manual thoroughly!

Please read this manual in its entirety before using your *Maxi Twin* mobile passive lift. Information in the manual is crucial to the proper operation and maintenance of the equipment and will help protect your product and ensure that the equipment performs to your satisfaction. Some of the information in this manual is important for your safety and must be read and understood to help prevent possible injury. ArjoHuntleigh strongly advise and warn that only ArjoHuntleigh designed parts, which are designed for the purpose, should be used on equipment and other appliances supplied by ArjoHuntleigh, to avoid injuries caused by the use of inadequate parts.

Unauthorized modifications on any ArjoHuntleigh equipment may affect its safety. ArjoHuntleigh will not be held responsible for any accidents, incidents or lack of performance that occur as a result of any unauthorized modification to its products.

Service and Support

A service routine must be performed on your *Maxi Twin* every year by ArjoHuntleigh authorized service personnel to ensure the safety and daily operation of your product.

If you require further information, please contact your local ArjoHuntleigh representative who can offer comprehensive support and service programs to maximize the long-term safety, reliability and value of the product. Contact your local ArjoHuntleigh representative for replacement parts.

Your service representative stocks the parts you will need.

The telephone number appears on the last page of this manual.

Safety Instructions

Definitions in this manual:

WARNING

Means:
Safety warning. Failure to understand and obey this warning may result in injury to you or to others.

CAUTION

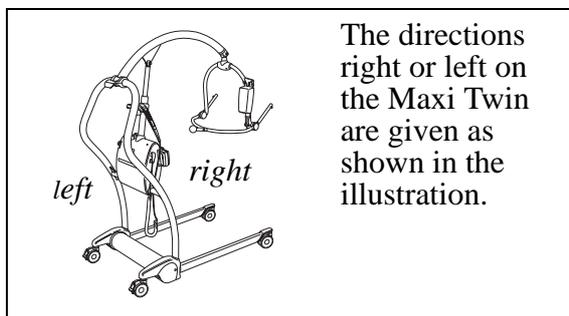
Means:
Failure to follow these instructions may cause damage to all or parts of the system.

NOTE

Means:
This is important information for the correct use of this system or equipment.



Means:
The name and address of the manufacturer



The directions right or left on the Maxi Twin are given as shown in the illustration.

The equipment must be used in accordance with these safety instructions. Anyone using the equipment must also have read and understood the instructions in this manual. If there is anything you are not sure about, contact your ArjoHuntleigh representative.

Intended use

Maxi Twin is a mobile passive lift. The lift is intended to be used for lifting and transfers in hospitals, nursing homes or other health care facilities for the different categories of residents,

when the resident:

- sits in a wheelchair
- has no capacity to support himself/herself
- cannot stand unsupported and is not able to bear weight, not even partially
- is dependent on the caregiver in most situations

or, when the resident:

- is passive
- might be almost or completely bedridden
- is often stiff or has contracted joints
- is totally dependent on the caregiver.

The resident can not suffer from uncontrollable head movements.

If a resident does not meet these criteria an alternative lift/system must be used.

The *Maxi Twin* equipment must be used by an adult, appropriately trained caregiver with adequate knowledge of the care environment, its common practices and procedures and in accordance with the guidelines in these Instructions for Use.

The transfer with *Maxi Twin* takes place indoors in the resident room, common areas or in a bathroom, but is not intended to be used in the shower or outdoors.

The expected lifetime of this equipment, unless otherwise stated, is ten (10) years, subject to preventive maintenance being carried out in accordance with the instructions for care and maintenance found in the Instructions for Use.

Maxi Twin is intended to only be used with ArjoHuntleigh slings that are specified in this manual.

Warnings

WARNING

DO NOT USE Maxi Twin for residents who suffer from uncontrollable head movements. In a seated position, the head could be injured when coming close to the jib.

WARNING

Do not overload the Maxi Twin beyond the approved Safe Working Load (SWL) of the lift or sling. The lowest SWL marked on the product should be valid.

WARNING

Only use Maxi Twin with ArjoHuntleigh slings specified in this manual.

WARNING

Modification or use of a non-Arjo-Huntleigh part will affect safety of device, resident and/or caregiver.

WARNING

Pay extra attention when using Maxi Twin for residents with spastic movements. The resident's legs could be injured by hard parts of the lift.

WARNING

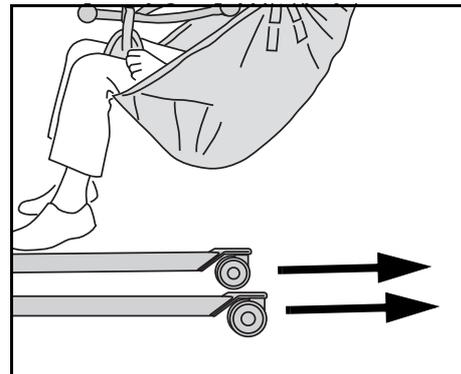
When selecting the correct sling size to be used refer to the Instructions for Use for Passive Clip Sling.

Any other use is prohibited. The lift should only be used for the purpose specified here.

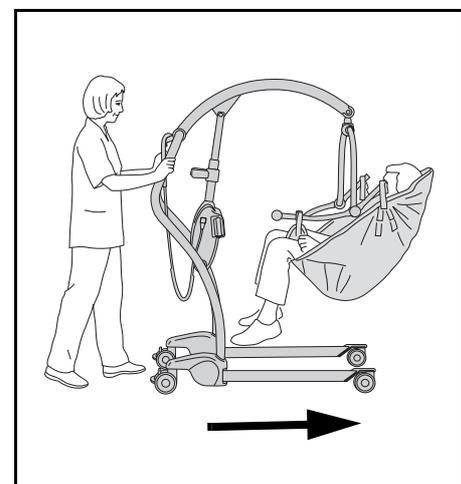
We recommend that facilities establish regular assessment routines.

To avoid the possibility of injury always ensure that:

- the equipment is used by appropriately trained staff.
- the resident is never left unattended.
- the resident never spends long periods of time in the *Maxi Twin*, it can affect the blood flow in his/her legs.
- lower *Maxi Twin* during transport to a safe height, little higher than a normal chair height.
- the resident's feet are clear of the floor during transport.
- *Maxi Twin* is moved with care, especially in narrow passages and over uneven surfaces.
- the *Maxi Twin* is kept with the chassis legs in parallel (closed) position during transport.



- the direction of driving during transport is according to the illustration below.



- the castors and brakes work freely.
- the wheels of the bed are locked when transferring a resident between the bed and *Maxi Twin*.
- if there is a drain cover in the area where the lift is manoeuvred, the drain cover must be smooth and set level with the floor.
- the slope of the floor does not exceed the ratio 1:50.

Intended use slings

See the *Instructions for Use for Passive Clip Sling*.

CAUTION

Do not leave/use Maxi Twin and accessories for extended periods in humid, wet areas or in the shower.

- Should the battery casing crack and cause contents to come in contact with skin or clothing, rinse immediately with water. If contents come in contact with the eyes, rinse immediately with plenty of water and seek medical attention.
- Inhalation of the contents can cause respiratory irritation. Sensitivity of nickel can cause allergic asthma. Provide fresh air and medical attention.
- Contact the appropriate local authority for advice to dispose of the battery.
- Check labels on the battery.

WARNING

Do not connect/disconnect batteries in presence of inflammable anesthetic gases. Sparks may occur and ignite the gas.

Intended use Battery charger

This charger is only intended to charge an ArjoHuntleigh battery NEA 0100.

Battery charger safety practices:

- The charger is designed for dry areas only and for normal air humidity conditions.
- Don't expose the charger to water or dust.
- Do not cover the battery charger.

Battery safety practices:

- Only use the charger supplied with the equipment.
- Do not charge battery in a sealed compartment.
- Be careful not to drop the battery.
- Do not place battery near a heat source or fire.
- Do not short-circuit the battery.
- Do not store battery at a temperature higher than 30 °C (86 °F).
- Do not crush, puncture, open, dismantle or otherwise mechanically interfere with the battery.

Preparations

Actions before the first use

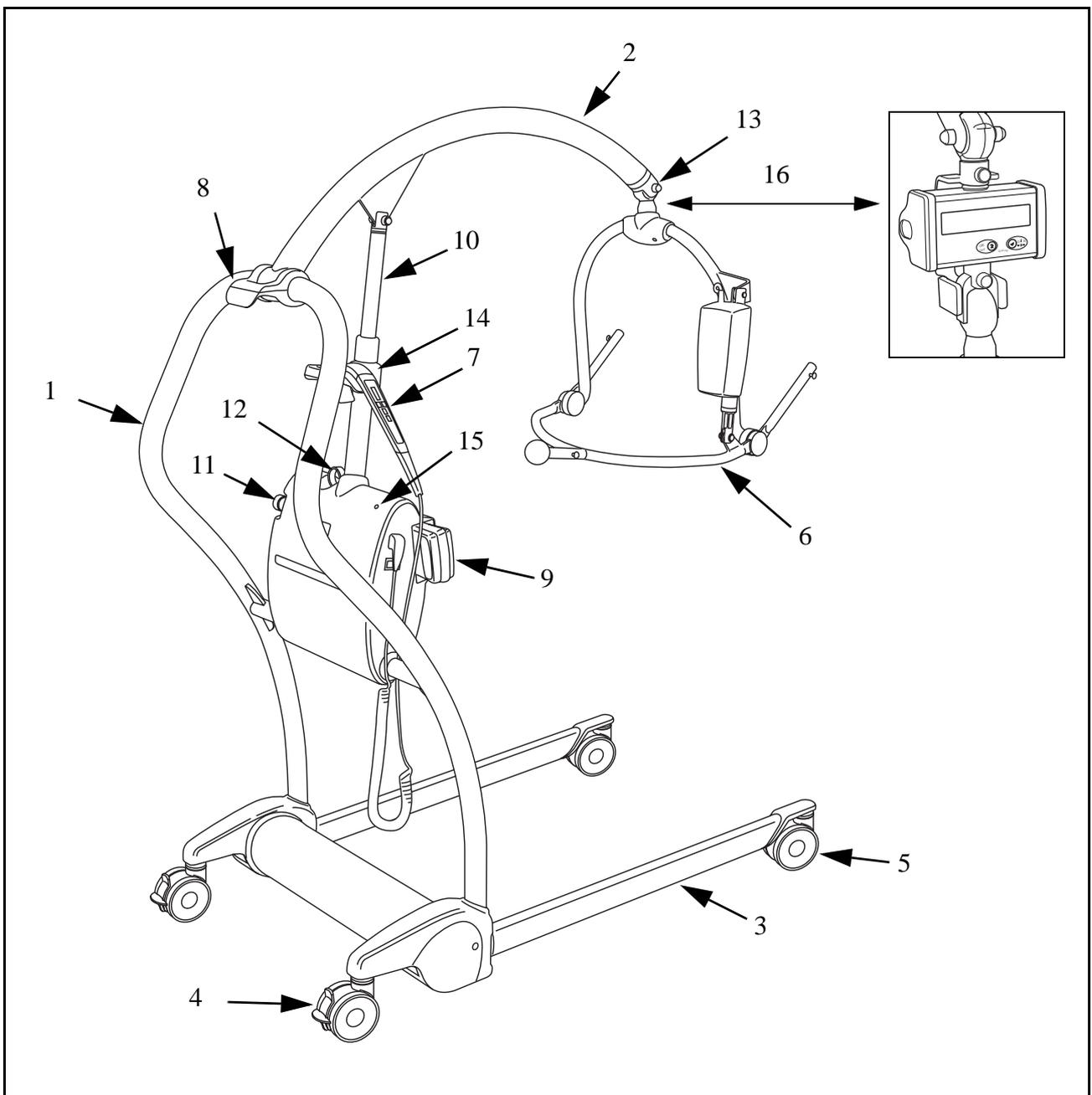
- 1 Visually check the package for damage. If the product looks damaged make a complaint to the transport agency.
- 2 The packaging should be recycled according to local regulations.
- 3 Check that all parts of the product are supplied. Compare with the product description in this manual. If any part is missing or damaged - do not use the product!
- 4 Unpack the battery charger. Select and attach the adapter correctly suited to your power outlet. See “Battery and Battery Charger”
- 5 Charge each battery for approximately 8 hours (Japan 3.5 hours).
- 6 Clean the product according to ”cleaning/disinfecting instructions”
- 7 Prepare a dry and good ventilated area to store the lift.
- 8 Choose a designated area, where the operating manual should be kept and is easily accessible at all times for the users.
- 9 If you have any questions, please contact your local ArjoHuntleigh representative for support and service. The contact numbers appear on the last page of this manual.

Actions before every use

- 1 Check that all parts of the lift are in place. Compare to *Part Designations* page.

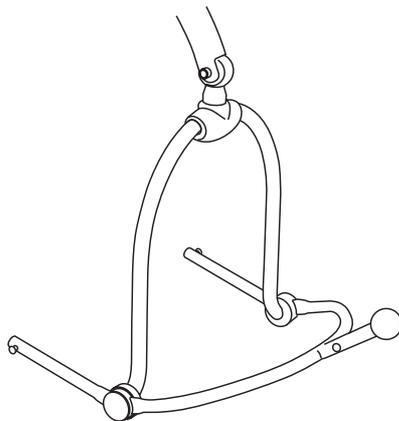
Part designations

- | | |
|---------------------------------|-------------------------------|
| 1. Mast/Lift manoeuvring handle | 9. Lift battery pack |
| 2. Jib | 10. Main lift actuator |
| 3. Adjustable chassis legs | 11. Emergency stop button |
| 4. Braked castors (rear) | 12. Emergency lowering "ring" |
| 5. Non-braked castors (front) | 13. Pivot bolt |
| 6. Powered DPS spreader bar | 14. Hand control holder |
| 7. Hand control | 15. Battery indicator light |
| 8. Hand control hang point | 16. Scale (Optional) |

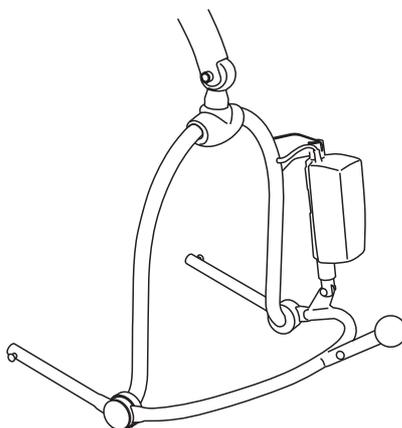


Spreader Bars

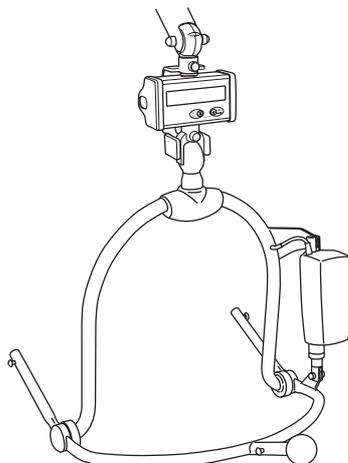
Manual DPS (Dynamic Positioning System) Spreader Bar



Powered DPS Spreader Bar



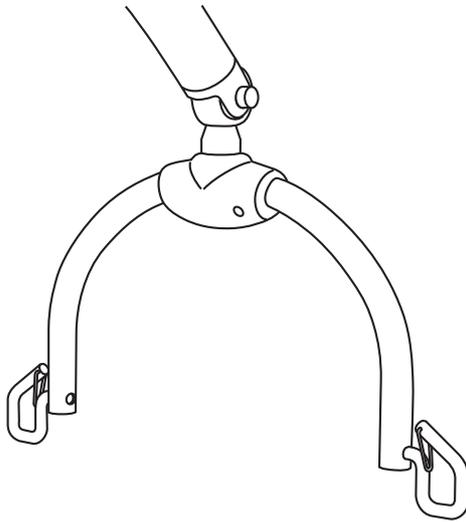
Powered DPS Spreader Bar with Scale



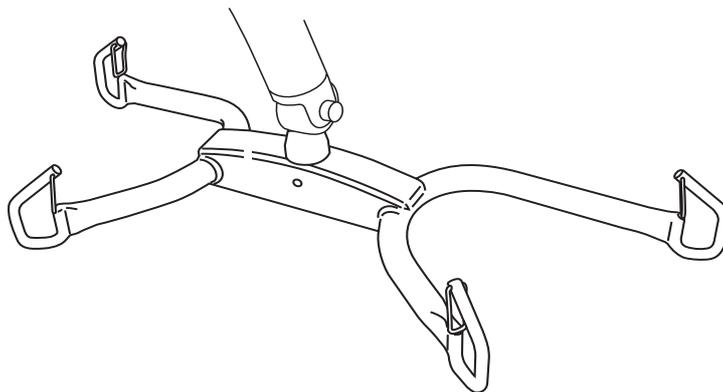
DPS = Dynamic Positioning System

Loop Spreader Bars

Loop Spreader Bar (Small and Medium)



Loop Spreader Bar (Large)



Slings

A sling range label is located on the side of the spreader/loop bar for quick colour to size reference (see “Labels on the lift” section).

Refer to the *Instructions for Use for Passive Clip Sling* when the size of sling should be chosen.

All ArjoHuntleigh slings have a coloured edge binding and colour coded by size:

Brown - Extra Small - XS

Red - Small - S

Yellow - Medium - M

Green - Large - L

Purple - Large Large - LL

Blue - Extra Large - XL

WARNING

Make sure to match:

Passive Clip sling with DPS Spreader Bar only!

Loop sling with Loop spreader bar only!

Always ensure that the sling is properly attached before using the sling.

WARNING

Never exceed the Safe Working Load of the sling or the lift. The lowest value should always be valid.

WARNING

Only use Maxi Twin with ArjoHuntleigh slings specified in this manual. The illustrated sling profiles will help to identify the various ArjoHuntleigh slings available.

WARNING

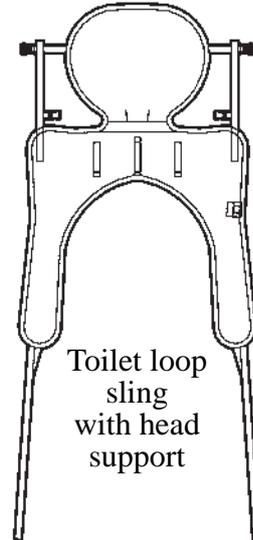
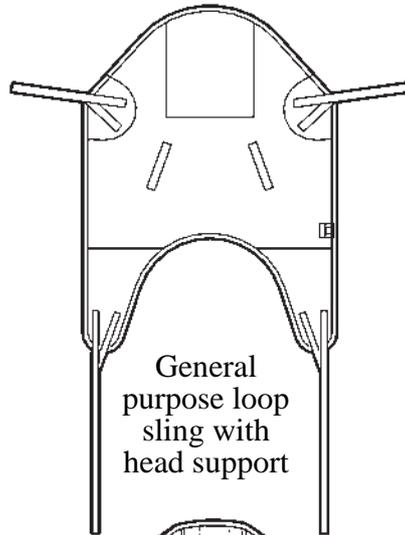
ArjoHuntleigh slings with head support have two pockets at the head section which contain plastic reinforcement pieces. Always ensure these reinforcement pieces have been inserted into the sling pockets before using the sling.

NOTE

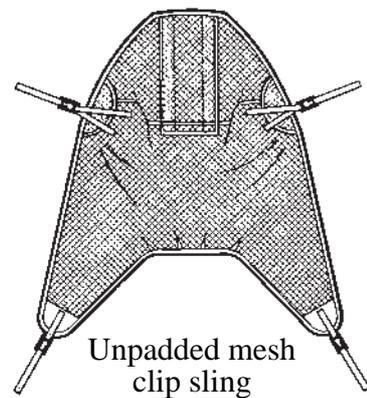
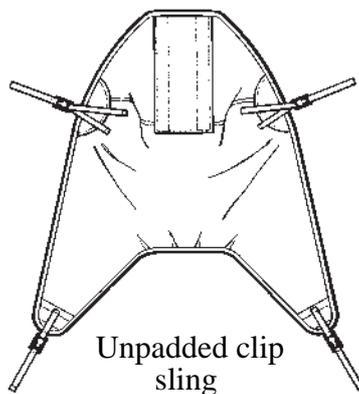
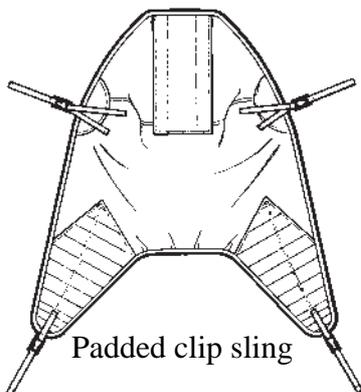
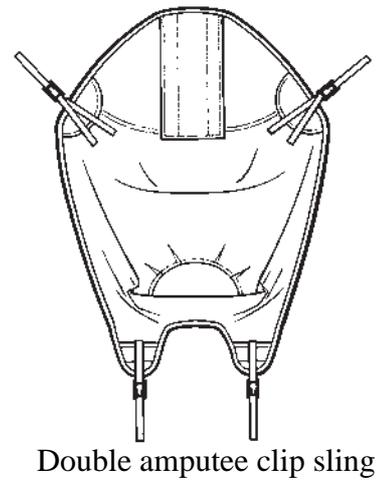
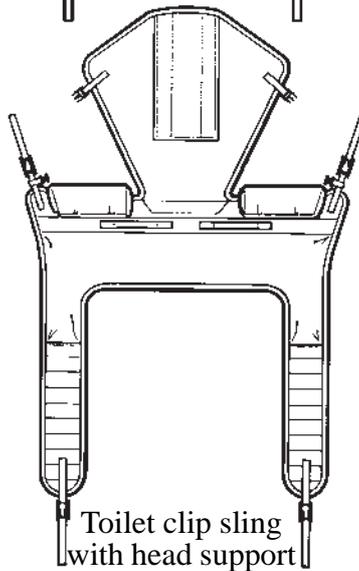
If ArjoHuntleigh Flites (disposable slings) are used with the Maxi Twin, then always refer to their instructions before use.

ArjoHuntleigh standard sling profiles that can be used with the Maxi Twin

Examples of Loop slings for Loop spreader bars



Examples of Passive Clip slings for DPS spreader bars



Product Description/Function

1-2. Hand Control

CAUTION

Do not drop the hand control into water.

The hand control (1) has an integrated hook which makes it easy to attach. When not in use, hook it over the hand control hang point at the top of the mast or the hand control holder located on the main lift actuator(2).

- Unhook the hand control and hold it in your hand.
- Press **A** button in order to **raise the jib**.
- Press **B** button in order to **lower the jib**.
- Press **C** button for **reclined position** (*only for powered spreader bar*).
- Press **D** button for **sitting position** (*only for powered spreader bar*).
- Press **E** button to **close chassis legs**.
- Press **F** button to **open chassis legs**.

Lifting

The lifting/lowering movement is performed by an actuator driven by an electric motor.

3. Adjustable width of chassis legs

The chassis legs can be opened to variable widths. Select the “Open chassis legs” button on the hand control and keep pressing it until the required width is achieved.

To close, press the “Close chassis legs” button. When pressure is released from the button, movement will stop and the chassis legs will remain securely in position.

NOTE

When opening or closing the legs of the powered chassis, make sure that no one stands in the way of the moving chassis legs.

4. Castor Brakes

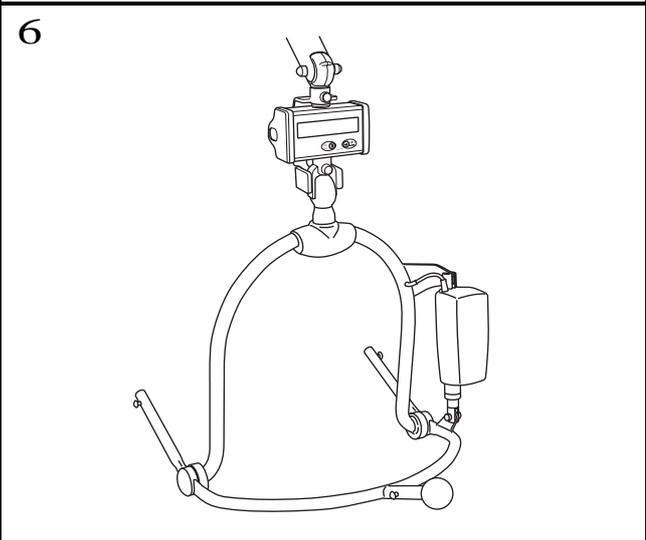
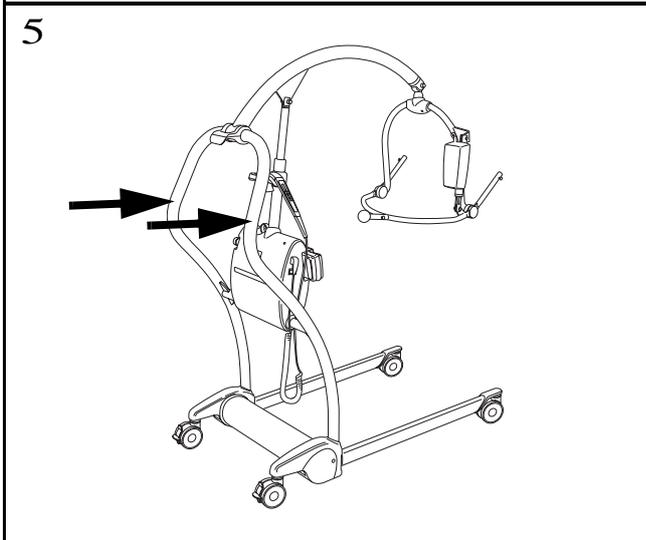
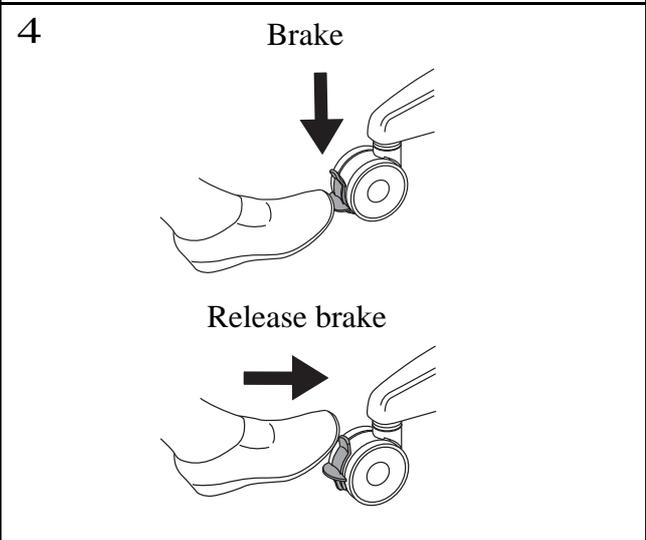
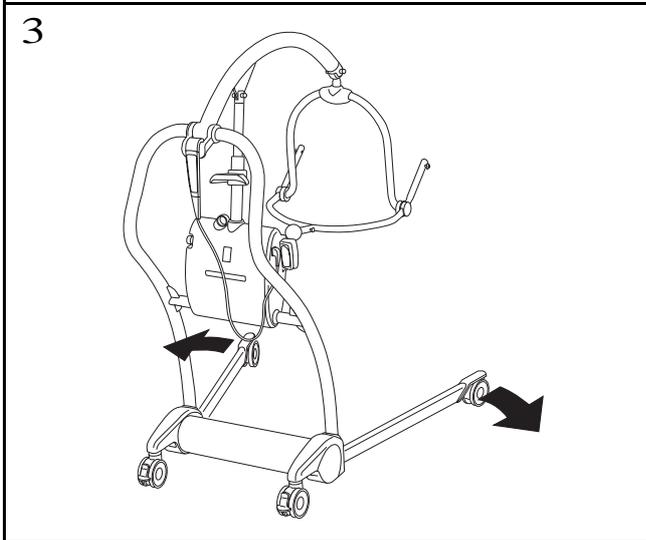
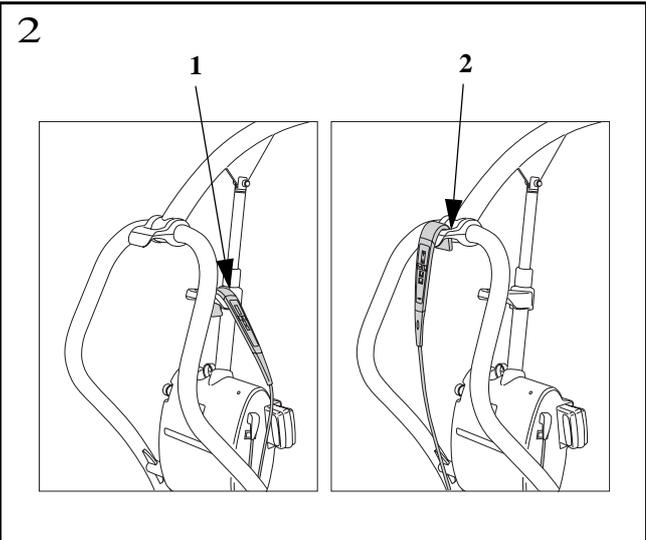
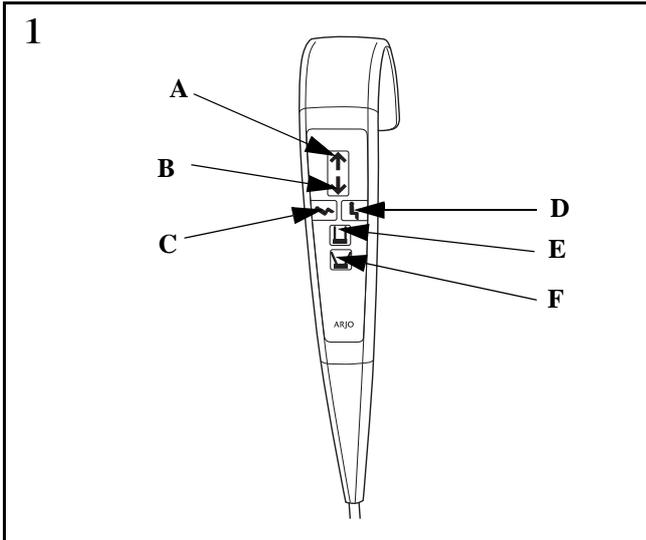
The chassis rear castors have brakes which can be foot operated to keep the Maxi Twin in position. Brake and release the brake as shown on the illustration. The brakes on both castors have to be applied to get full effect.

5. Driving/positioning handles

Use the driving handles when pushing and positioning *Maxi Twin*.

6. Scale on the powered spreader bar.

The Maxi Twin powered spreader bar comes with or without a scale. Refer to the Maxi Twin Scale Instructions for Use.



1a. Emergency Stop Button (Red)

In case of an emergency, where you immediately have to stop any powered movement, (other than by releasing pressure on the hand control button), press the “emergency stop button”, located on the side of the main lift actuator cover (see illustration).

Once the emergency stop button (A) has been operated, it will have to be reset before any powered movement can be utilised.

1b. Emergency Lowering “Ring”

WARNING

It is necessary to pull the ring slowly and carefully to get a controlled lowering of a heavy resident. If pulled too quickly, the lowering might be too fast.

The emergency lowering function will only work when there is a load in the Maxi Twin exceeding 2 kg (4.4 lbs). It can be used in the event of a main control failure. The Emergency Lowering “Ring” is on the top of the main lift actuator housing, a green and white identification label is positioned near the emergency lowering ring for quick and easy recognition. Pull the emergency lowering ring up to operate, release the control during use and lowering will stop.

NOTE

Due to internal friction, the speed of lowering will vary depending on the weight of the resident. You may have to assist the downwards movement by pulling down the jib.

2. Automatic Safety Stop

This is not operator controlled but a function built into the electronics of the lift.

Function I:

If the lift is moving up /down and it moves against something, the movement will be stopped by an automatic safety stop. Release the up /down button on the hand control.

Function II:

If the lift is mistakenly overloaded with a resident heavier than permitted, an automatic safety stop will automatically be activated. If this occurs, stop pressing the up button on the hand control. Lower the resident by pressing the down button and then remove the resident from the lift.

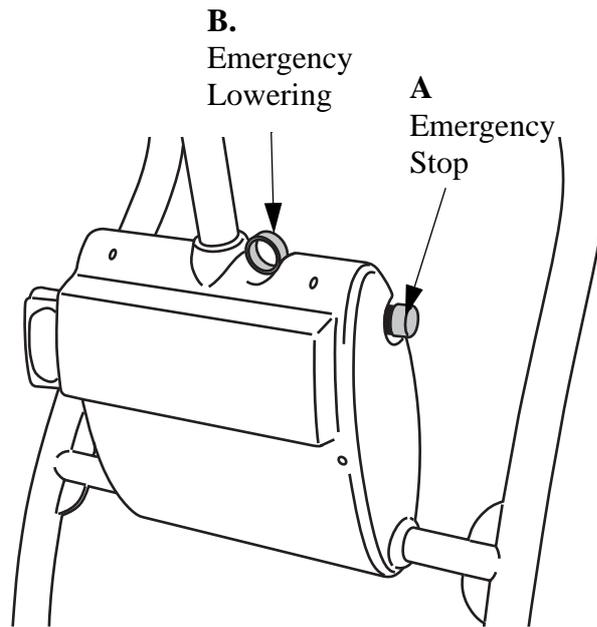
3. Powered spreader bar

Four sling attachment lugs enable the sling clips to be attached.

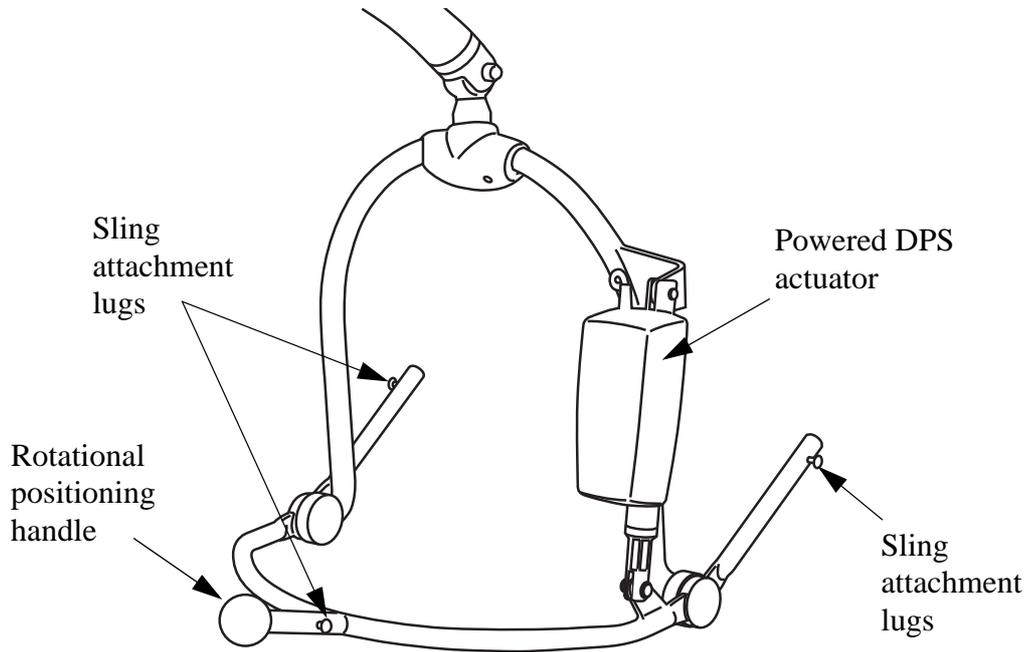
The rotational positioning handle allows you to position the resident sideways.

The powered spreader bar is operated from the hand control. The resident can be positioned in a reclined or sitting position.

1



3



1. Battery

The battery is situated on the side of the lift actuator housing.

NOTE

The battery shape only fits correctly into the lift with its raised edge upwards.

1a. Battery indicator light.

A beeping sound and a low battery indicator light will flash when the battery needs charging. The caregiver should complete the current lift movement.

2. Battery charger

Type no:

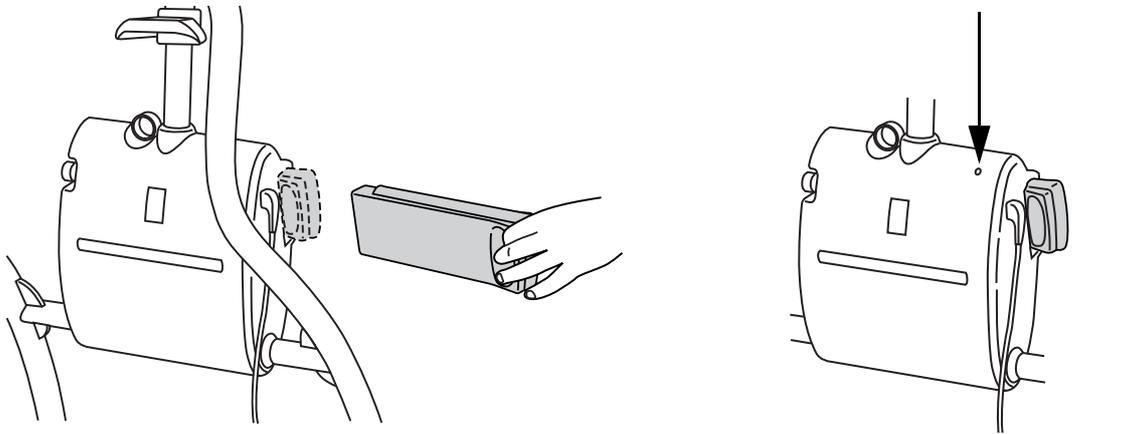
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NEA 8000-AU

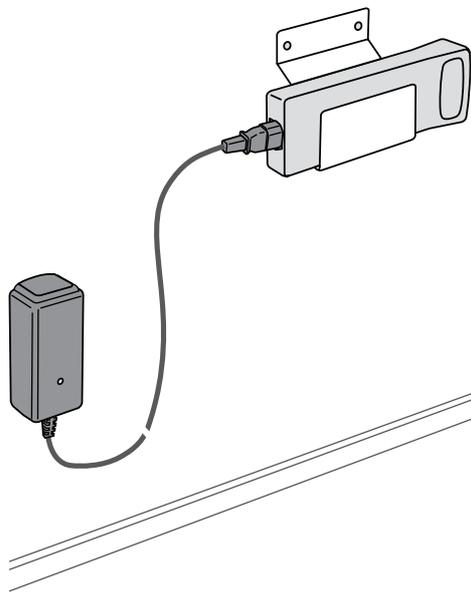
NEA 7000-JP (Japan)

1

1A.



2



Powered spreader bar

Powered spreader bar (if fitted)

If your lift comes with a powered spreader bar, the same instructions apply as the non-powered spreader bar.

1. The difference is that the powered spreader bar has the added advantage of positioning the resident with minimal physical effort by the caregiver. The rotation of the powered spreader bar is manual which is the same as the manual spreader bar.

WARNING

Before using your lift with the powered spreader bar, familiarise yourself with the various parts. Read and thoroughly understand the following operating instructions.

The powered spreader bar must be used according to these instructions together with instructions written for the non-powered spreader bar.

The lifting capacity of the lift with the powered spreader bar remains the same as the non-powered spreader bar.

2. In order to position the resident, move the powered spreader bar by a push of a button on the hand control. The movement will stop with the released pressure of the button. The spreader bar will remain firmly in position, once powered movement has stopped.

WARNING

To stop any unwanted powered movement, press the emergency stop button.

WARNING

Before and during operating the powered spreader bar, ensure that the spreader bar, support frame and jib are clear from any obstructions.

WARNING

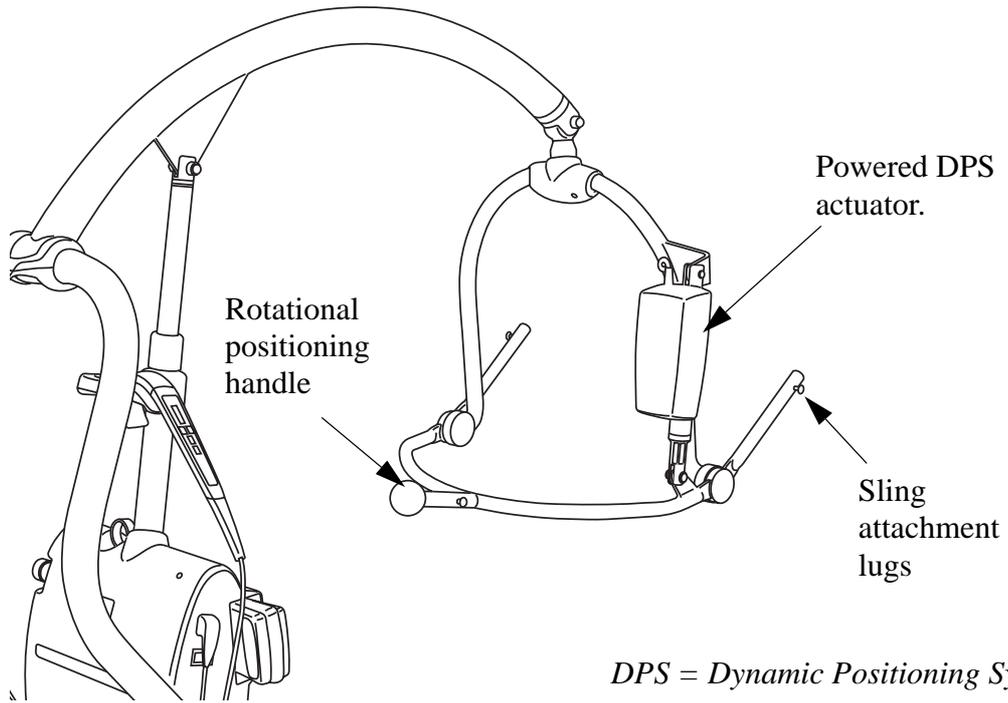
Behind the actuator covers are moving parts. Do not to damage these covers. Should the covers become damaged, do not use the lift. Contact an ArjoHuntleigh Service technician.

The powered spreader bar is waterproof and is classified labelled by ArjoHuntleigh as a wet environment unit. This water level mark signifies that the lower end of the spreader bar and sling may be immersed in bath water or used for showering.

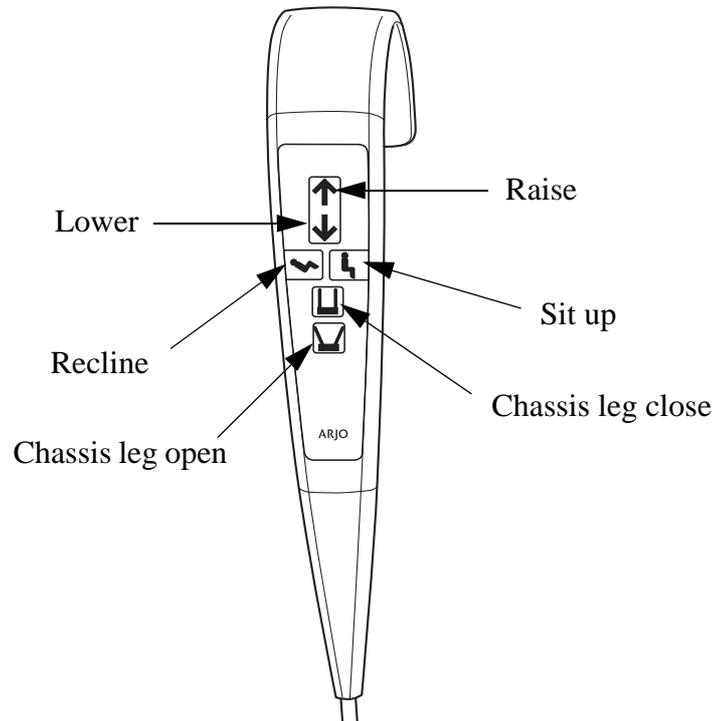
CAUTION

The electrical actuator, as part of the powered spreader bar, will not withstand water and should not be sprayed with water or be submerged under water. The maximum water level is indicated on the water level mark on the side of the spreader bar.

1



2



Using your Maxi Twin

Before the resident is transferred to a Maxi Twin, ensure that:

- the battery pack is fully charged before use. Remove it from the charger unit and the arched top of the battery should face upwards when inserted into the battery opening. Electrical connection will be made automatically.
- a selection of sling types and sizes are easily available for all types of lifting procedures when using *Maxi Twin*.
- when possible, approach the resident from the front.
- if necessary, open the chassis legs to go around a chair or wheelchair.

WARNING

Always pay close attention to the resident during a transfer/transport. Do not let the resident hold onto the spreader bar.

Powered chassis legs

Select the appropriate button on the hand control and keep it pressed down until the required leg width is achieved. To close, press the close chassis leg button. The opening/closing of the chassis legs will stop if pressure is released from the button.

WARNING

When opening or closing the legs on a powered chassis, do not allow anyone to stand in the way of the moving chassis legs and castors.

Transport the Maxi Twin with the chassis legs in parallel (closed) position only.

Transferring resident - Spreader Bar

To Lift from a Chair

1. Place the sling around the resident so that it covers his/her lower back and the head support covers behind the head. Pull each leg piece and position it under each thigh. The leg pieces should be brought under and between the thighs.
2. Ensure the positioning handle on the spreader bar is facing away from the resident. The wide part of the spreader bar should be positioned at, or just below shoulder level. Ensure that the Maxi Twin is close enough to be able to attach the sling shoulder clips to the spreader bar.

WARNING

When using the sling with the spreader bar, ensure that hands and arms of the resident are kept inside the sling. Do not allow the resident to 'hold on' to the spreader bar.

3. Once the Maxi Twin is in position, attach the shoulder strap clips to the lugs on the spreader bar.



NOTE

The chassis rear castors have brakes which can be foot operated. Do not apply castor brakes at this stage. The position of the resident will adjust to his/her centre of gravity while being lifted.

WARNING

Apply the castor brakes if Maxi Twin or the resident is positioned on a sloping surface to prevent it from accidentally moving from its position and cause harm or injury.

4. Press down on the positioning handle of the spreader bar and attach the leg strap clips.

If necessary, lower the spreader bar using the hand control. Being careful not to lower it on the resident, in that case stop pressing the button on the hand control.

NOTE

If the hand control button is released during lifting or lowering, the powered motion will stop immediately.

WARNING

Always check that the sling clips are fully in position before/during a lifting cycle. Keep an eye on the tension as the resident's weight is gradually picked up.

5. Raise the resident by operating the hand control and move the lift away from the chair. Carefully lift the positioning handle until the resident is reclined in the sling with head support. This is the most comfortable position for transport, as it reduces pressure on the thighs from the leg pieces. The angle of recline can be adjusted for increased comfort if the resident is uncomfortable.

6. Before transport, turn the resident to face the caregiver at normal chair height. This provides confidence, secure feeling and improves the Maxi Twin's stability.

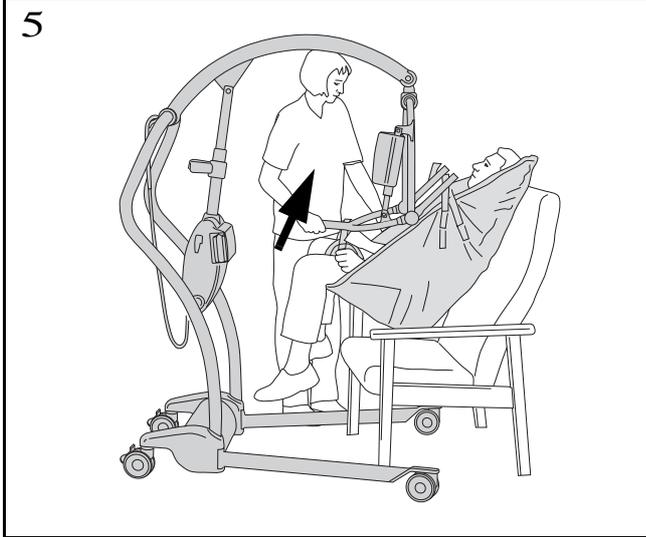
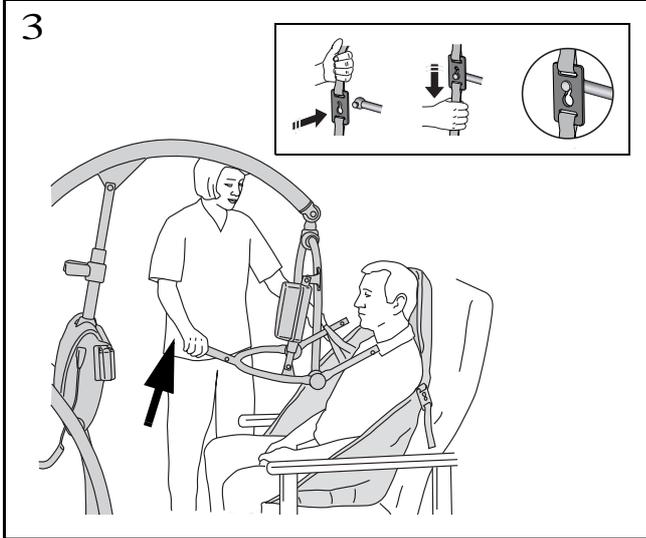
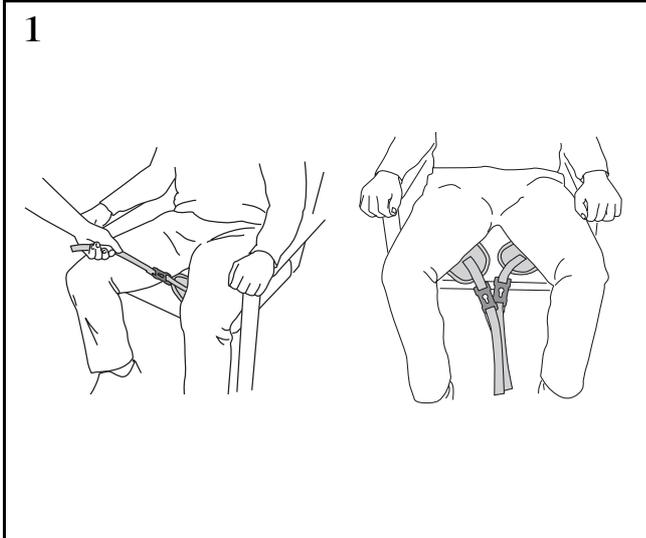
Remember to release the brakes, if these have been applied, before attempting to transport the resident. Close the legs of the chassis to help out in the transport process.

To lower the resident back into a chair - or when transferring from bed to chair.

To avoid further lifting effort, push down on the positioning handle to put the resident into a good sitting position. Do not push down too quickly, as this may jerk the resident's head forward.

WARNING

When lowering the lift ensure that the resident's or caregiver's legs and feet are away from moving parts.



To Lift from a Bed

Before lifting a resident from a bed, make sure there is enough space underneath the bed to accommodate the Maxi Twin chassis legs.

1. Position the resident onto the sling. Roll the resident towards you then fold the sling in half and place it behind the resident's back.
2. Position the sling carefully so that the resident gets rolled back centrally on the sling. The head support area of the sling should cover behind the resident's neck.

NOTE

To bring out the folded sling under the resident, roll the resident from the opposite direction and pull the folded sling out

Alternatively, the resident can be brought into a sitting posture. Position the sling as detailed in the previous section "To Lift From A Chair".

3. Approach the bed with the open side of the spreader bar towards the resident's chest. Using the adjustable width chassis legs, it is possible to manoeuvre around obstructions such as bed legs.

Position the Maxi Twin so that the spreader bar is just above and centrally situated over the resident.

WARNING

Be careful not to lower the spreader bar on to the resident.

4. Tilt the spreader bar by using the positioning handle, until the shoulder attachment lugs can be connected to the sling shoulder strap clips.

The leg pieces must be brought under the thighs to connect, this may involve lifting one leg at a time. You may need to lower the spreader bar a little more, using the hand control. Press down on the positioning handle until the sling leg pieces reach the connections.

5. When lifting from the bed, some caregivers prefer to connect the leg pieces first. This particularly applies to residents' with large thighs. In that case, raise the hip and knee into maximum flexion and attach the leg strap clips. Tilt the spreader bar towards the shoulders for connection.

WARNING

Always check that the sling clips are securely attached before and during the start of the lifting process. Keep an eye on the tension as the resident's weight is picked up.

Lift the resident using the hand control and adjust resident to a comfortable position before the transfer. The specially designed sling with head support, enables one person to carry out a complete lifting function without additional help.

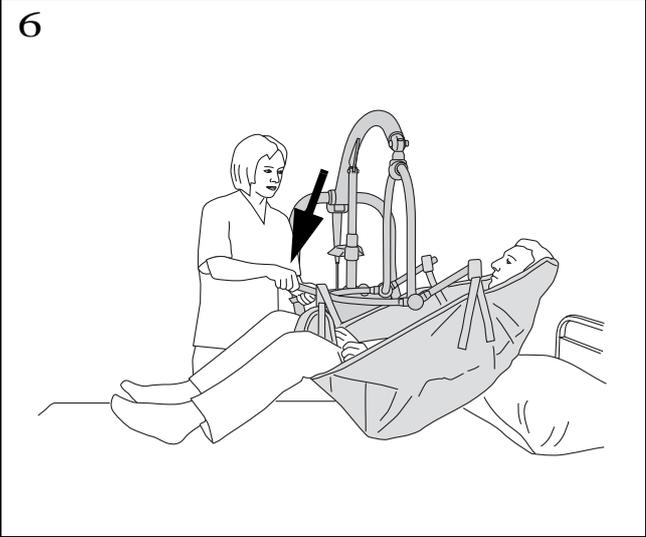
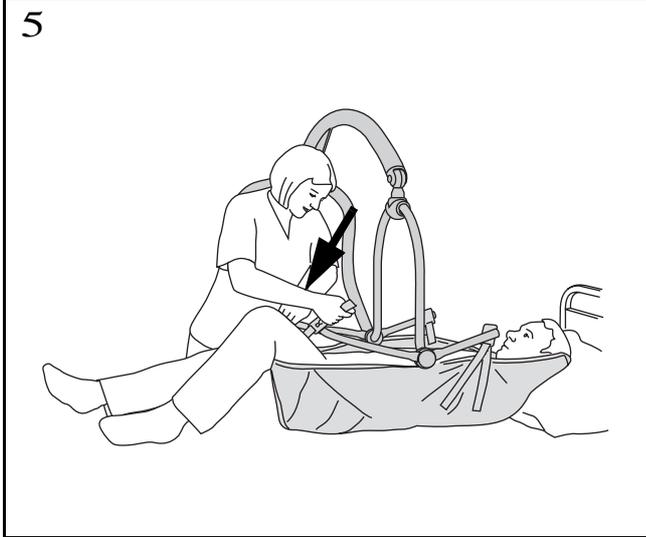
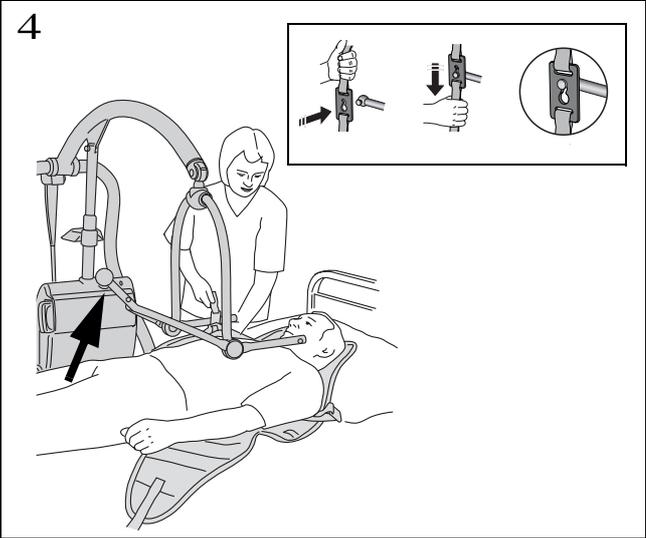
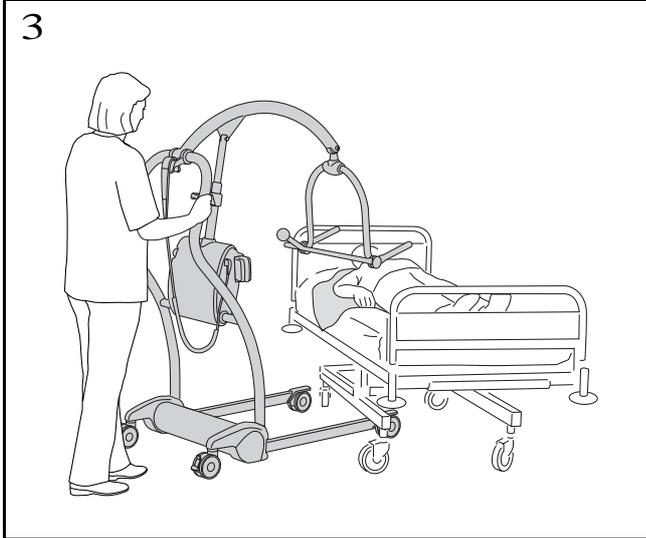
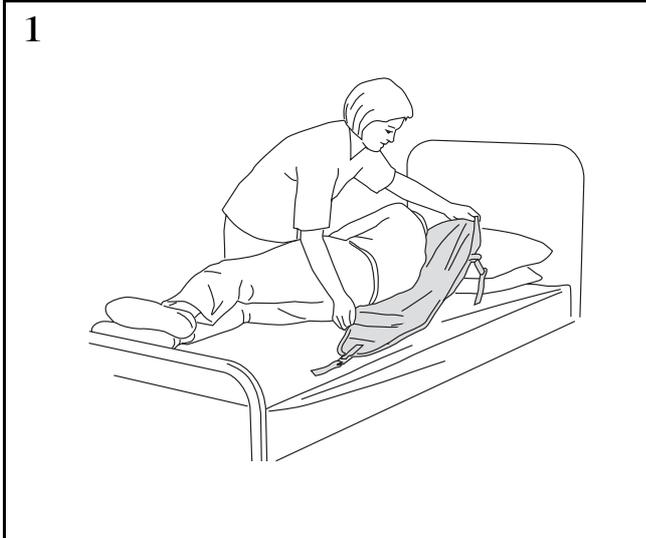
6. When returning to a bed, move the resident into a desired position above the bed. Adjust the sling position if necessary and then lower the resident using the hand control.

WARNING

When lowering the lift ensure that the resident's or caregiver's legs and feet are away from moving parts.

Only detach the sling clips when the resident's body weight is fully supported by the bed. Start with the leg clips followed by the shoulder clips.

Move the Maxi Twin lift away before removing the sling from under the resident. If transferring the resident to a chair refer to the previous section "To Lift from a Chair".



To lift from the floor

1. Put the sling around the resident by using the rolling or sitting up method. Depending on circumstances, space and/or position of resident etc. approach with the open part of the chassis. Open the chassis legs if necessary.

The resident's head and shoulders could be resting on pillows for comfort. This is not a necessity when connecting the sling to a spreader bar.

2. With the open part of the spreader bar directed down towards the resident's shoulders, attach the shoulder strap clips.
3. Once attached, raise the hip and knee into maximum flexion and push down on the positioning handle in order to connect the leg strap clips. This will raise the resident's head and shoulders slightly.

WARNING

Always check that the sling clips are securely attached before and during the start of the lifting process. Keep an eye on the tension as the resident's weight is picked up.

4. When lifting from the floor, some caregivers prefer to connect the leg pieces first. This in particular applies to the very large residents with large thighs. In that case, raise the hip and knee into maximum flexion and attach the leg straps first. Tilt the spreader bar towards the shoulders for connection.

When all the straps have been properly connected, raise the resident from the floor. Support behind the head can be comfortable and reassuring for the resident. The leg pieces can be positioned fairly high in the crotch, straighten them out for added comfort. The resident may be positioned in a chair or placed onto a bed.

If the resident is prone to spasms, he/she may be lifted with the Maxi Twin. However, special attention needs to be paid to support the head during the early part of the lift.

When lifting residents with leg amputations, use an amputee sling (available as an accessory from ArjoHuntleigh). This sling is specially designed to accommodate a different centre of gravity.

WARNING

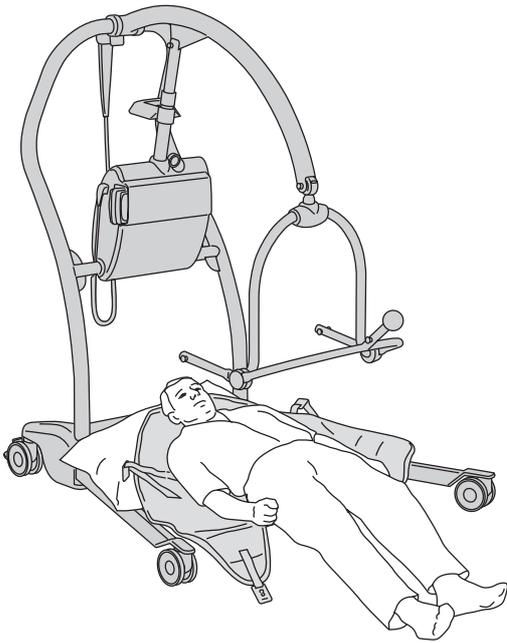
When lowering the lift ensure that the resident's or caregiver's legs and feet are away from moving parts.

Transport of a resident should always be done with the chassis legs parallel (closed). Manoeuvrability will be easier, especially through doorways. The resident should be positioned facing the caregiver.

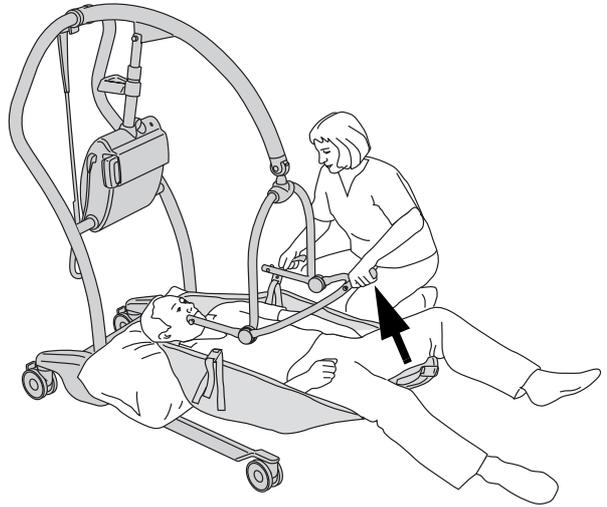
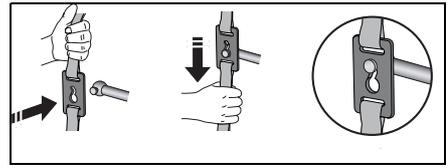
WARNING

Ensure that the sling is not put around or caught under the legs of the Maxi Twin. This might damage the spreader bar during the lifting.

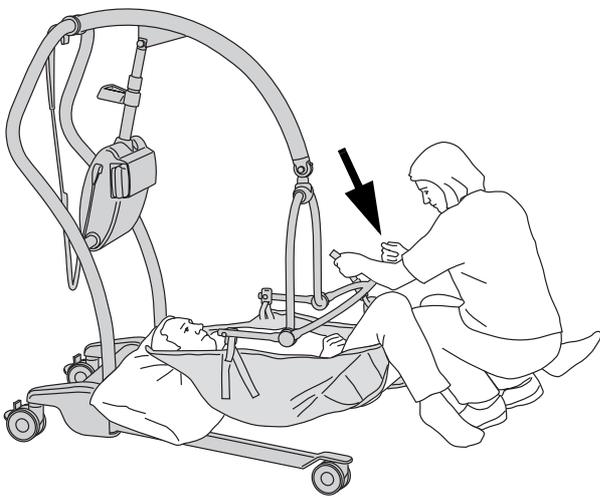
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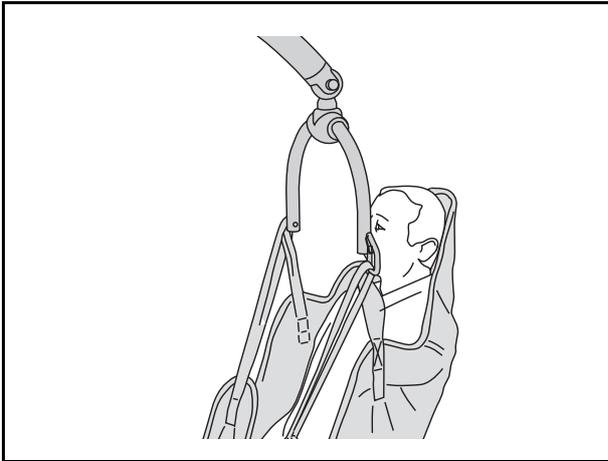
2



3



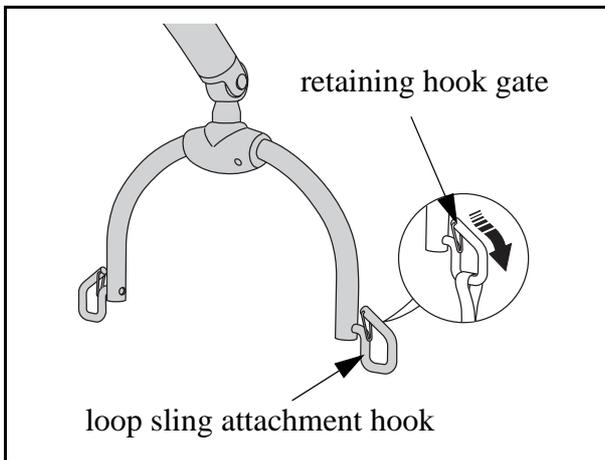
Transferring the resident - Loop Bar



WARNING

Before attaching the loop sling ensure the loop spreader bar is rotated into position like the illustration above.

When attaching the sling to the loop spreader bar, always ensure the sling attachment loops are positioned correctly into the retaining hooks and that the retaining hooks gates move freely as illustrated below.

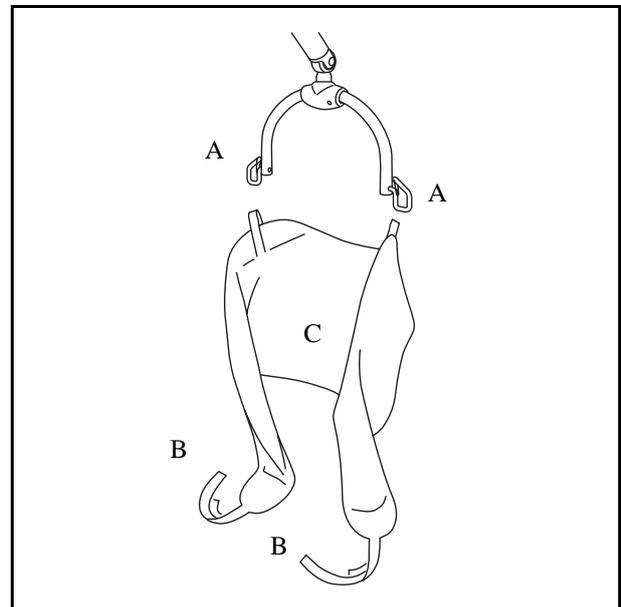


Use ArjoHuntleigh loop slings with the loop spreader bar. The slings are available in different sizes, (extra small, small, medium, large, large large and extra large etc.) and all colour coded. A range of more specialised slings are available. Please contact ArjoHuntleigh or their authorised distributors for details.

To lift from a chair

1. Method 1

Lean the resident forward if necessary. Slide the sling down the resident's back until seam "C" reaches the base of the spine. Take attachment points "B" and loop the leg pieces of the sling underneath the resident's thighs. Make sure the sling pieces are not twisted underneath the resident. Bring the loops in a cross formation between the thighs. Attach the leg pieces to the "opposite side" hooks of the loop spreader bar.



2. Method 2

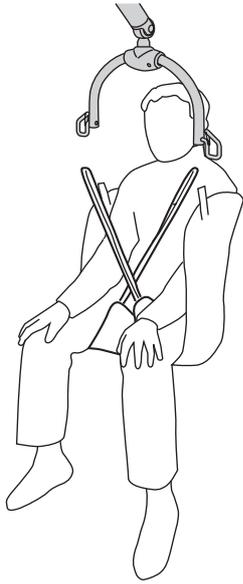
Just like method 1 above, except cross the leg pieces of the sling under both thighs. The leg pieces will pass on the outside of the thighs before attaching loops "B" to the hooks.

3. Method 3

Start like method 1, except loop the leg pieces of the sling under each thigh and attach to the same side hook as the shoulder attachment (left straps to left hook and right straps to right hook). This method holds the legs apart and offers better access for cleaning, toileting or similar. This method may offer extra support for amputees or residents with special conditions. Extra care should be taken to prevent the resident from falling out of the sling.

1

METHOD 1



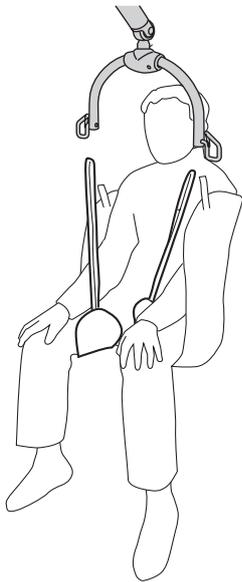
2

METHOD 2



3

METHOD 3



Once the sling has been positioned and attached securely to the loop bar then lifting can be carried out using the hand control.

WARNING

Always check that all the sling loops are fully in position before and during the lifting cycle. Keep an eye on the tension as the resident's weight is gradually taken up.

When lowering the lift ensure that the resident's or caregiver's legs and feet are away from any moving parts.

Apart from the previous three lifting methods mentioned, the loop spreader bar with loop slings is also extremely useful for lifting residents with contracted legs, since it typically offers more space for the resident.

To lift from a bed

Place the sling under the resident as if it was a drawsheet. Flex the resident's legs and bring the sling leg pieces under the thighs. Attach the sling to the loop bar using any of the three lifting methods mentioned on the previous page.

WARNING

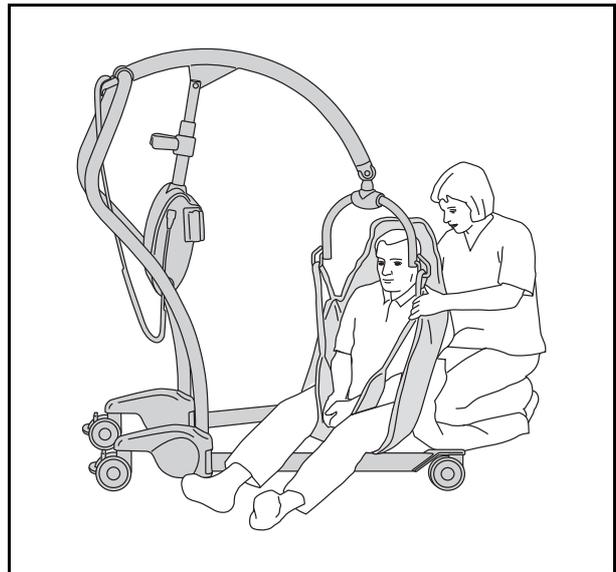
Check that all four points of the loop sling are securely attached before lifting.

To lift from the floor

Raise and support the resident into a sitting, or half sitting position. Put the sling down behind the resident's back and bring the leg pieces of the sling into position. Place the resident's legs over the chassis and bring the lift into position. With the jib as low as possible, attach the shoulder loops. Bend up the resident's knees to help the connection of the leg pieces.

WARNING

Make sure not to get fingers trapped between chassis and moving legs of the lift.



WARNING

Ensure that the sling is not put around or caught under the legs of the Maxi Twin. This might damage the spreader bar during the lifting.

WARNING

Check that all the loops are securely attached before lifting.

When lifting or lowering a resident who is supported by a sling it is not necessary to use the brakes. This allows the lift to move to the correct position relative to the centre of gravity of the resident.

It's recommended to apply the brakes however, when lifting a resident from the floor. This may prevent any unwanted or accidental movement of the Maxi Twin that may cause harm or injury.

WARNING

Apply the castor brakes to keep the Maxi Twin in position on a sloping surface.

When the resident has been returned to the bed he/she may be lowered some more before the sling is detached.

WARNING

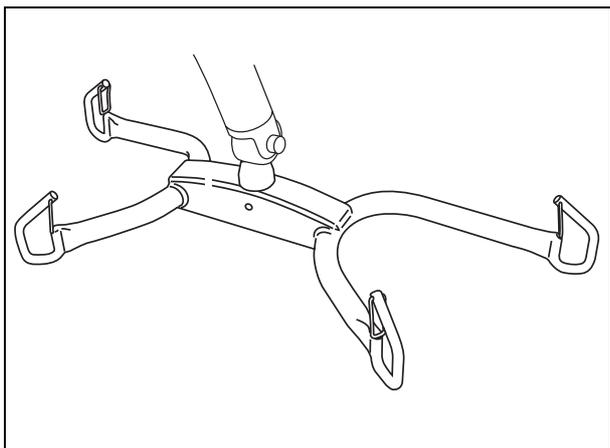
When lowering the jib ensure that the resident's or caregiver's legs and feet are away from moving parts.

To lift with a large loop bar

The large loop bar has two extra attachment hooks for the leg straps.

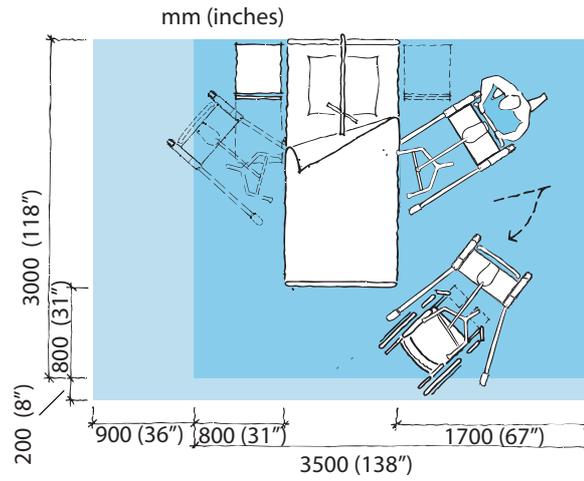
Follow the same lifting methods as described for the regular loop bar except:

1. The legs straps are to be attached to the hook closest to the legs.
2. The back side of the sling closest to the shoulders hooks of the loop bar.



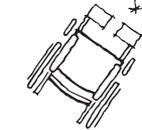
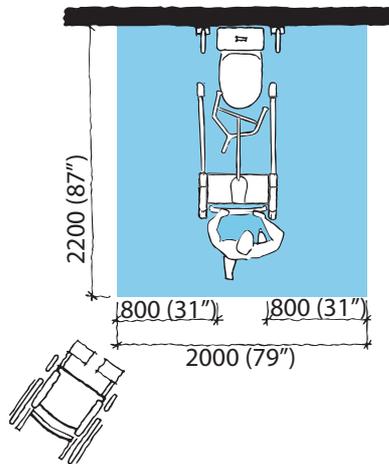
Transfer between bed and wheelchair with a sling lift

1



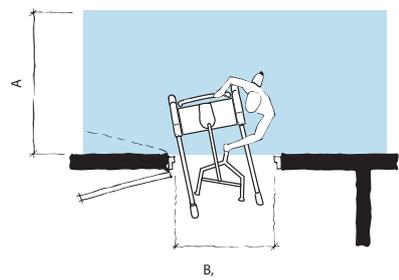
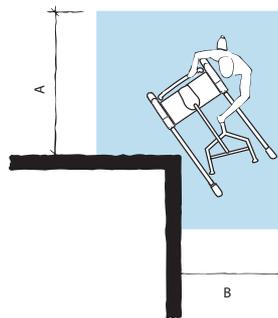
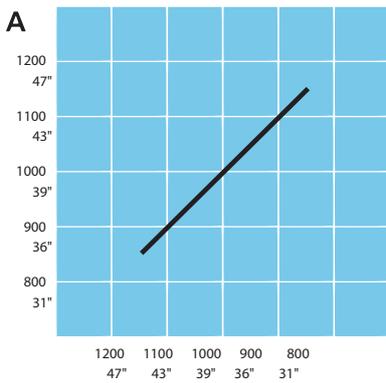
Toileting with a sling lift

2



Turning radii with a sling lift

3



Battery and Battery charger

Installation

WARNING

The battery charger is designed for dry areas and may not be installed in bathrooms or any other wet areas.

- Fix the battery holder to a suitable wall within reach of a standard power outlet where the charger can be plugged in. Use two fixing screws (not included) suitable for the wall and with documented load capacity.
- The battery charger is not allowed to be used in a high trafficated living area.

A recommended place to charge a battery is the storage area for lifts that meet the requirements above.

Charging batteries

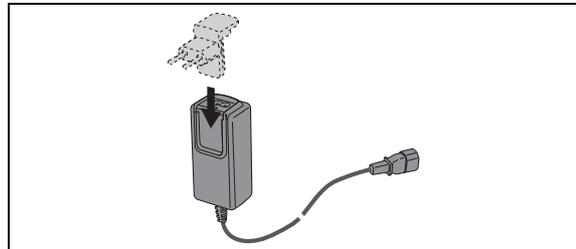
- The charger converts mains voltage to low DC voltage.
- The charger must only be used with a Arjo-Huntleigh battery type NEA 0100.
- The charger is ready for use as soon as it's plugged in.
- An orange indicator indicates that the charger is ready for charging, there is no On/Off button on the charger.

Charging intervals

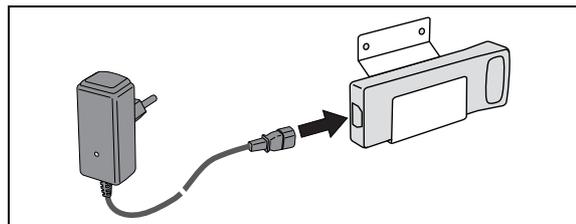
- Put the battery in the charger every night so it is always fully charged in the morning.
- If the lift is used frequently, its recommended to use two batteries, one in operation and one in the charger.
- It is recommended that a battery not in use are left in the charger, there is no risk of overcharging the battery.

Charging procedure

- 1 Select the adapter (enclosed) suited for your power outlet.



- 2 Connect the charger to a power outlet.
- 3 The LED will show a yellow light.
- 4 Connect the appliance cable to the battery connector.



- 5 The LED will show orange light.
- 6 The charger will charge the battery for about 8 hours (Japan 4.5 hours) depending of level of discharge and the LED will switch from orange to green when the battery is fully charged

NOTE

When unplugging the battery connector: Take hold of the plug. Do not pull the cord. Wear and tear can damage the cord.

- The charger does not require any maintenance.
- In case of a malfunction, do not attempt to open the charger-cover.
- All repairs must be carried out by Arjo-Huntleigh qualified personnel.

Storage of batteries

- Batteries are charged when delivered but we recommend to charge the batteries when received due to a low self-discharge.
- The batteries will slowly discharge when not used.
- Batteries that will not be used for a longer period should be kept in a cool place, not under 0 °C (32 °F) and not over room temperature + 25 °C (77 °F).
- Batteries that are charged for the first time or after a longer storage period must be charged for 8 hours (Japan 4.5 hours) or until the LED turns green.

WARNING

In case of a malfunction, do not attempt to open the charger cover.

All repairs must be carried out by ArjoHuntleigh authorised personnel.

Cleaning/Disinfecting Instructions

Only use ArjoHuntleigh branded disinfectant cleansers.

If you have any questions regarding disinfecting the equipment, or wish to order cleaning fluid, contact ArjoHuntleigh Customer Service.

Unless otherwise stated, before each and every use follow the cleaning, care and inspection procedures described in this section.

WARNING

Failure to clean the equipment may cause cross contamination.

WARNING

Always use protective gloves and protective glasses when handling concentrated cleaning agents. Avoid getting the cleaning agent on your skin or in your eyes. If this does occur, rinse thoroughly with plenty of water. Seek medical advice if irritation occurs. Always read the material safety data sheet on the disinfectant cleanser.

WARNING

Do not use phenol, citric acid or petroleum-based solvents, trichloroethylene, chlorine and hydrogen peroxide or similar cleaning agents as these may damage the plastic material. Steam, ethylene oxide sterilization and high pressure wash can not be used either.

WARNING

For disinfection of contaminated lifts, equipment and accessories, use the preferred method of wiping the product completely with "hard surface disinfectant wipes" that are supplied impregnated with a 70% v/v solution of Isopropyl Alcohol.

NOTE

70% v/v Isopropyl Alcohol wipes have been proven to be effective against MRSA and several other micro-organisms under light soiling conditions.

CAUTION

Do not over spray areas of the product which could cause problems with electrical components and/or internal corrosion.

- 1 Remove slings from the lift.
- 2 Use a disinfection spray bottle, gently spray disinfection fluid at the correct dilution ratio over *Maxi Twin*. Use properly labelled squirt bottle containing disinfection fluid mixed according to instructions on the container.
- 3 Use a sponge, rag or disposable cloth and clean all surfaces of the lift.
- 4 Allow an appropriate contact time for sanitation or disinfection according to the instructions for the disinfectant cleaner or your local regulations.
- 5 Rinse with water to get of all the disinfectant cleaner.
- 6 Wipe the lift and all parts dry with a cloth.

Sling care and cleaning

How often the following actions are taken depends on how often the equipment is used.

Unless otherwise stated, before each and every use follow the cleaning, care and inspection procedures described in this section.

WARNING

1. With regard to laundering, slings should not be classified as linen, but as an accessory to a resident transfer lift and therefore classified as a medical device. Slings should be cleaned and disinfected only in strict accordance with the manufacturers instructions.
2. Mechanical pressure should be avoided during the washing and drying procedure e.g. rolling or pressing, as these can damage parts vital to the safe and comfortable operation of the sling.
3. Washing and drying temperatures must not exceed the temperatures specified on the sling and the sling instruction sheet. Wash using normal detergents, do not iron. Refer to Sling Instruction sheet.
4. It is essential that the sling attachment cords, the slings, their straps and attachment clips are carefully inspected before each and every use. If the slings, cords or straps are frayed, or clips damaged, the sling or attachment cord should be withdrawn from use immediately and replaced.

Care and Preventative Maintenance

Maxi Twin is subject to wear and tear, and the following actions must be performed when specified to ensure that the product remains within its original manufacturing specification

WARNING

The points on this checklist are the minimum the manufacturer recommends. In some cases due to heavy use of the product and exposure to aggressive environment, more frequent inspections should be carried out. Continuing to use this product without conducting regular inspections or continuing to use this product when a fault is found will seriously compromise the user and residents safety. Local regulations and standards may be higher than the manufacturers. Preventive maintenance specified in this manual can prevent accidents.

PREVENTIVE MAINTENANCE SCHEDULE *Maxi Twin*

CAREGIVER OBLIGATIONS Action/Check	Every DAY	Every WEEK	Every YEAR	Every 2:nd YEAR
Cleaning/Disinfecting	X			
Visually check the slings	X			
Replace with charged battery	X			
Visually check all exposed parts		X		
Visually check mechanical attachments		X		
Check hand control and cable		X		
Check and clean castors		X		
Check the brake function		X		
Visually check battery charger and battery		X		
Perform functionality test		X		

WARNING

The following actions must be carried out by qualified personnel, using correct tools and knowledge of procedures. Failure to meet these requirements could result in personal injuries and/or unsafe product.

NOTE

All Caregiver Obligations are to be checked when performing the Qualified Personnel Service.

QUALIFIED PERSONNEL Action/Check	Every DAY	Every WEEK	Every YEAR	Every 2:nd YEAR
Check that the latest upgrades have been implemented			X	
Check all vital parts for corrosion and damage			X	
Check mechanical attachments			X	
Perform a safe working load test (local requirements)			X	
Check all actuators for function and range			X	
Check movable parts of the spreader bar			X	
Check function of emergency lowering			X	
Check function of emergency stop			X	
Check the safety stop function			X	
Check/replace castors			X	
Perform full feature functionality test			X	

Caregiver obligations shall be carried out by personnel with sufficient knowledge following the instructions in this manual.

Every day

- **Cleaning/Disinfecting.** *Maxi Twin* has to be cleaned immediately after use. Arjo-Huntleigh cleaning agents should be used in recommended concentrations.
- **Visually check the slings.** Check for fraying, holes, cuts, loose stitching and damaged plastic clips. If the sling is found damaged in any way, take out of use immediately and replace the sling (1).
- **Use a fully charged battery** at the beginning of the day.

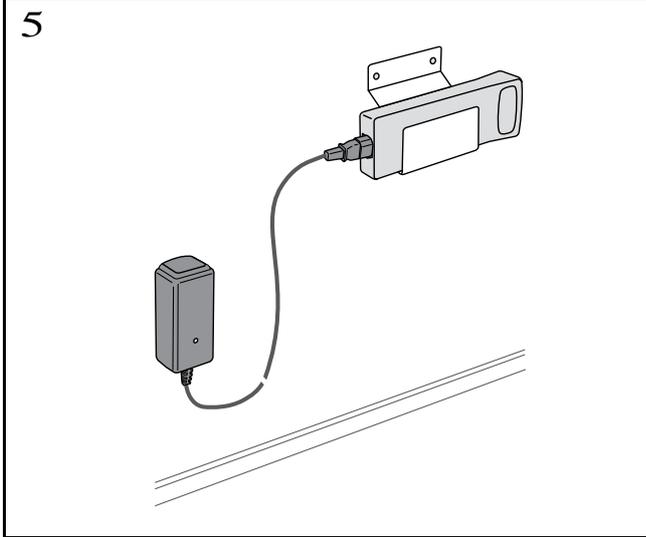
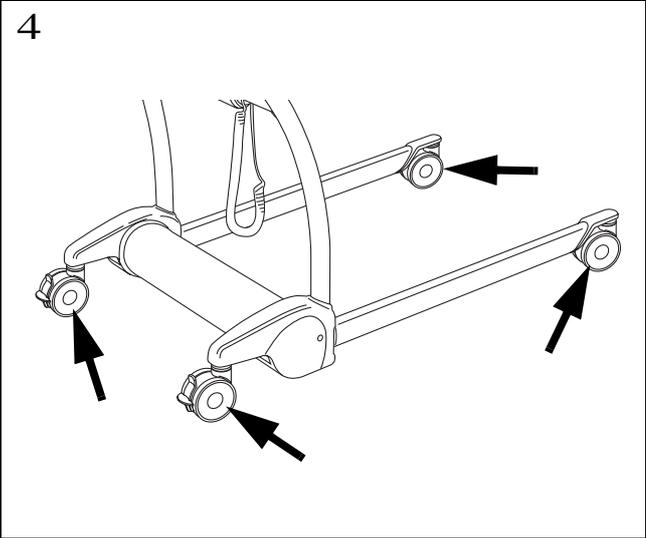
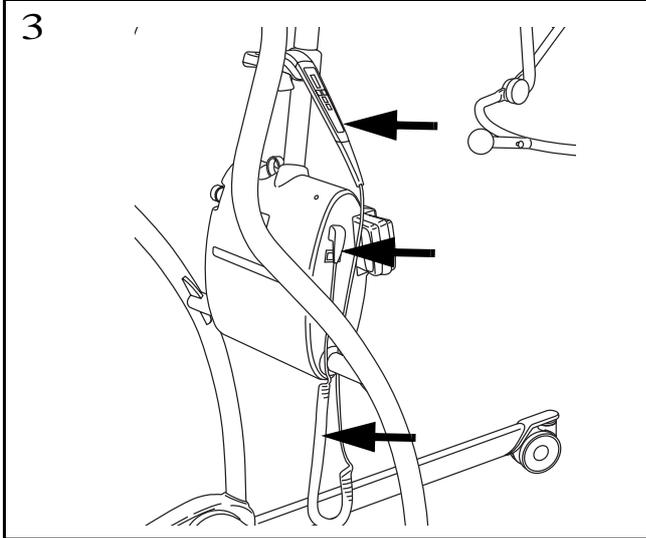
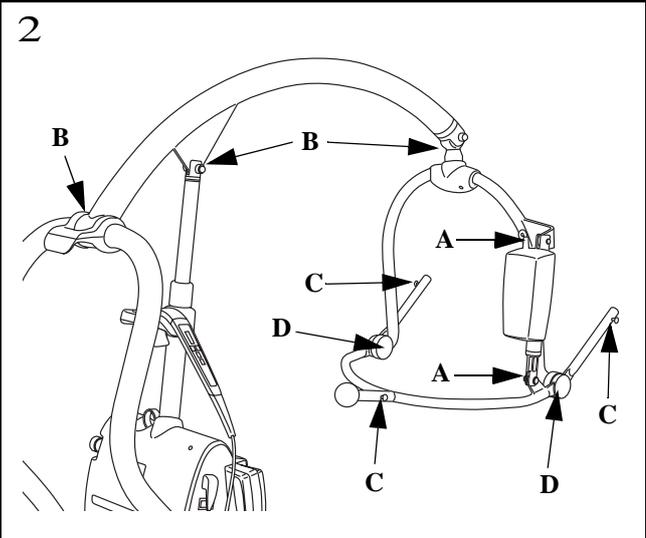
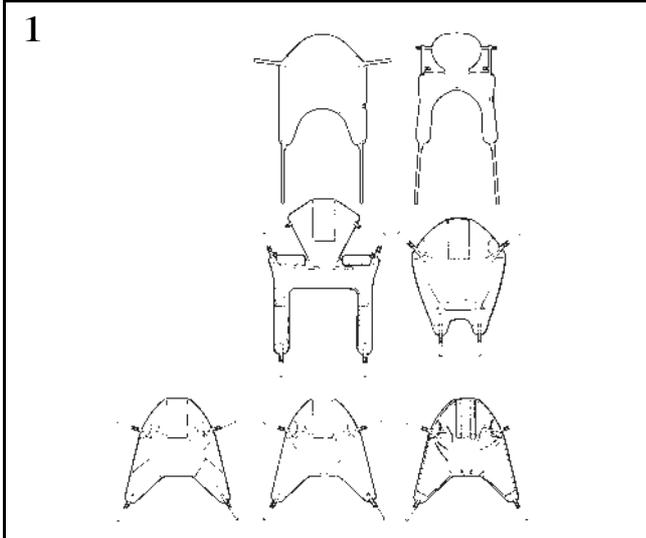
Every week

- **Visually check all exposed parts**, especially where personal contact is made by either the resident or caregiver. Make sure no cracks or sharp edges have developed that could cause the resident or user injury or that has become unhygienic. Replace damaged parts.
- **Visually check all mechanical parts.** Visually check the attachment for the actuators (2a) and the attachment between jib and spreader bar (2b). Visually check the sling attachment knobs(2c), for damage. Check the spreader bar pivot for any suspect damage, for instance, such as protruding plastic (2d).
- **Check hand control and cable:** Visually check the condition of the hand control and its cable. If found cut, damaged or exposed wiring, replace it. (3).
- **Check that the castors** are properly fixed and that they roll and swivel freely. Clean with water. (the function can be affected by soap, hair, dust and chemicals from floor cleaning). Check the brake function (4).

- **Visually check the condition of the battery charger, its cable and the batteries.** Remove and replace immediately if damaged (5).
- **Perform a full functionality test** and by lifting up and down. Test the movement of the spreader bar and the open/close function of the legs. All functions should work as expected without divergences.

Yearly

Maxi Twin has to be serviced according to the Preventive Maintenance Schedule (Qualified Personnel Action/Check).



Trouble shooting

PROBLEM	ACTION
Using the lift	
The lift raises or lowers after the hand control buttons are released.	Activate the red emergency stop button and pull the battery out - remove the resident from the lift and call for authorised service.
The lift does not raise or descend when the hand control buttons are pressed.	<ol style="list-style-type: none"> 1. Make sure that the battery is fully connected in the battery compartment 2. Make sure that the hand control connection plug is properly connected to the socket 3. Make sure that the battery is charged
	<p>WARNING Do not leave the resident unattended while doing this.</p>
	<ol style="list-style-type: none"> 4. Make sure the emergency stop button is inactivated by turning the red knob clockwise 5. Use the emergency lowering to lower the resident. Pull the purple ring up to operate. When the ring is released the movement will stop - call for authorised service as soon as the resident is removed from the lift.
The lift is hard to manoeuvre during transport.	<ol style="list-style-type: none"> 1. Make sure all brakes are released 2. Make sure all castors roll and swivel freely - if not, remove the resident from the lift and call for authorised service.
The lift is making abnormal sounds during lifting or transport.	Remove the resident from the lift and call for authorised service.
Alarms	
A buzzing is heard as the lift is raised.	The battery needs charging - complete the transfer operation in progress and change to a fully charged battery.
	<p>WARNING Do not leave the resident unattended.</p>
The lift stops its motion as the lift is lowered/raised or when the spreader bar is moved to a sitting position.	The lift has been lowered/raised against a fixed object. Carefully raise/lower and reposition the lift.
Only a few lifts are carried out before battery indicator will flash and sound.	Change to a new battery.

Technical specifications

Maxi Twin

Safe working load	182 kg (400 lbs.)
Weight of lift without a spreader bar	46.5 kg (101 lbs.)
Powered DPS spreader bar	6.9 kg (15.2 lbs.)
DPS spreader bar	5 kg (11 lbs.)
Small loop spreader bar	1.7 kg (3.7 lbs.)
Medium loop spreader bar	1.9 kg (4.2 lbs.)
Large loop spreader bar	2.8 kg (6.2 lbs.)
Weight of the battery	1.5 kg (3,3 lbs.)
Colour	Grey
Medical equipment	type 
Sound level	49dB (A)
Mode of operation	ED max 10%; Max 2 min ON, Min 18 min OFF
Operating forces of controls	2.7 N
Max ambient temperature	+ 10°C to +40°C (+ 50°F to +104 °F)
Max relative humidity	15-100%
Max atmospheric pressure	700-1060 hPa

Transport and storage

Ambient temperature range - Transport	-25 °C to +60 °C (-13 °F to +140 °F)
Ambient temperature range - Storage	-25 °C to +30 °C (-13 °F to +86 °F)
Relative humidity range	10% to 95%
Atmospheric pressure range	500 -1060 hPa (transport) 700-1060 hPa (storage)

Electricity

Battery	ArjoHuntleigh NEA 0100
Equipment voltage	24 V DC
Protection class	IP X4
Hand control Protection class	IP X7
Fuse	F1 F10AL 250 V
Fuse	F2 T4AL 250 V

Recycling

The device should be recycled according to national regulations

Battery	NiMH. Recyclable. Not for disposal. Environment danger
Package	Wood and corrugated cardboard, recyclable
The Lift	Electric, steel and plastic parts shall be separated and recycled according to marking on the unit

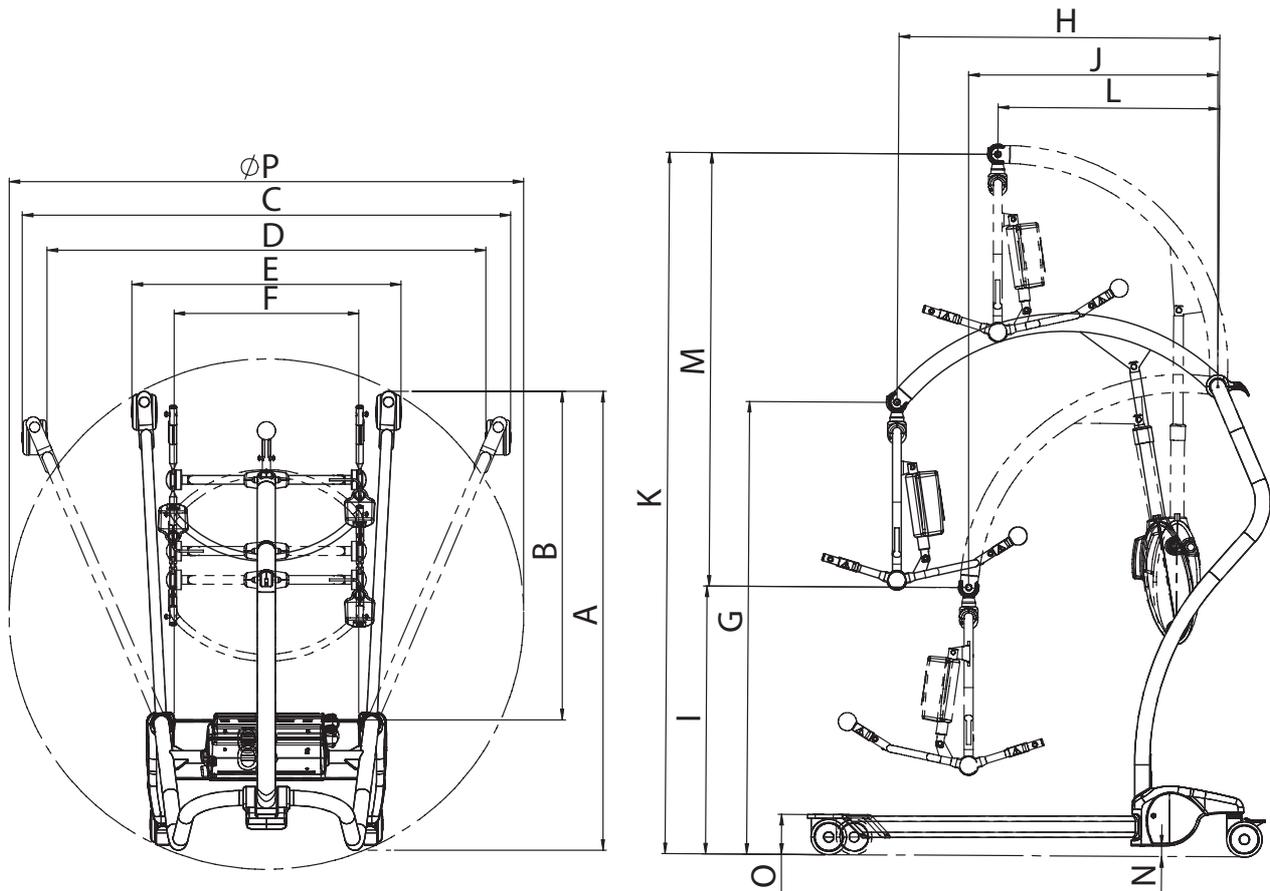
Charger model	NEA 8000 -WW NEA 8000 -AU	NEA 7000-JP
Voltage	100 – 240 V ~ ±10%	100V ±10%
Frequency	50 – 60 Hz	50 – 60 Hz
Normal charge current	400 mA	900 mA for 3.5 hours
Standby charge current	25mA	50mA
Max charge voltage	41 V	41 V
Max power	0.35A	32 W
Weight	200 g (0.44 lb.)	210 g (0.46 lb.)
Dimensions	102 x 47 x 38 mm (4" x 1 7/8" x 1 1/2")	60 x 70 x 100mm(2 3/8"x 2 3/4"x 4")
Max ambient temperature	+ 40 °C (+ 104 °F)	+ 40 °C (+ 104 °F)
Max relative humidity	75%	75%
Max atmospheric pressure	1060 hPa	1060 hPa
Degree of protection	IPX0	IPX0
Battery to this charger	ArjoHuntleigh NEA 0100	ArjoHuntleigh NEA 0100

WARNING

Stacking or placing electrical or magnetic equipment close to this device is not recommended, it can interfere with the equipment's operation and safety.

Portable and mobile radio-frequency (RF) communications equipment can interfere with this equipment's operation and safety.

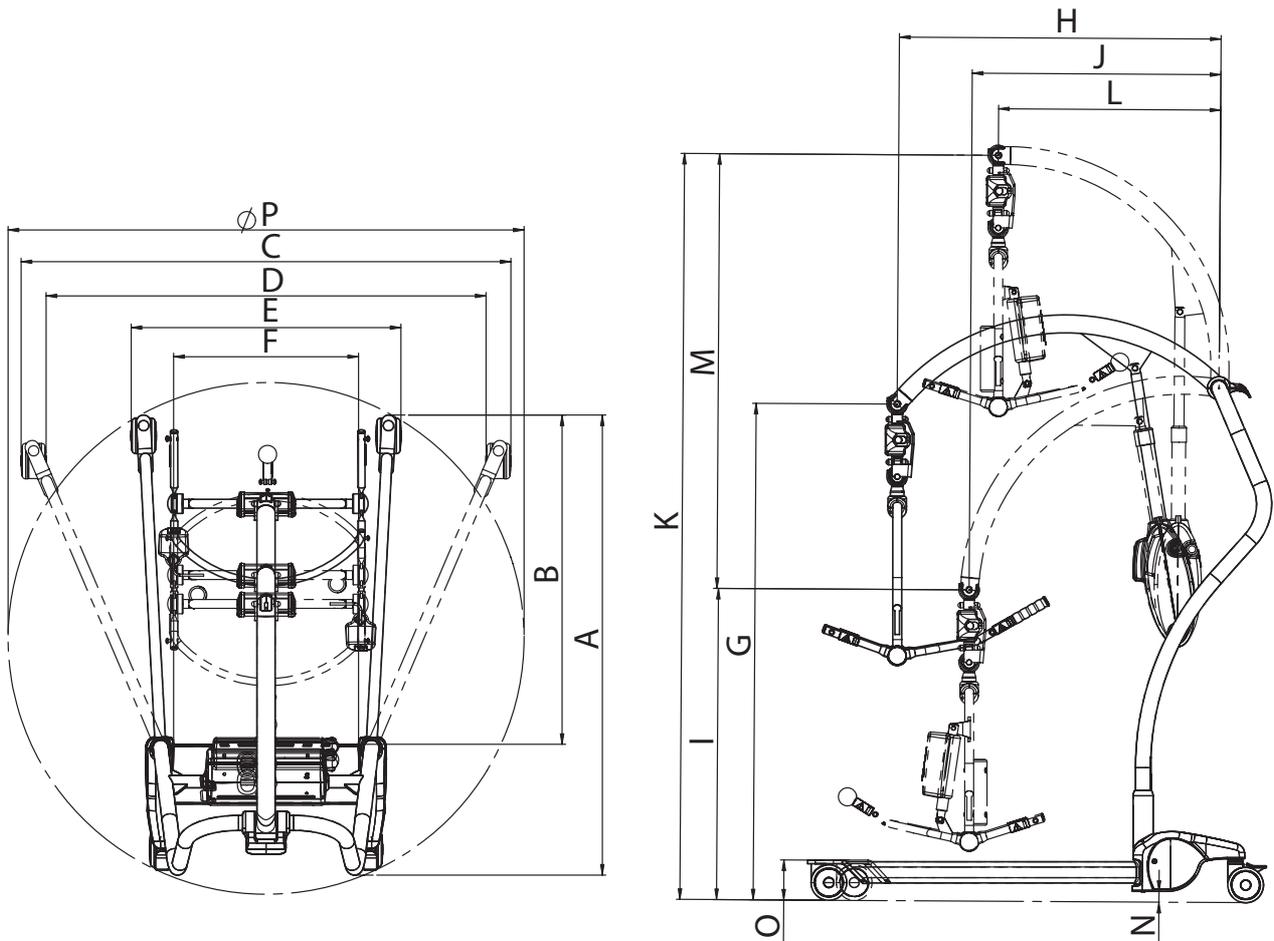
Dimensions of Maxi Twin.



C.S.P = Central Suspension Point

Reference	Note	Dimension
A	Max. External Length	1298,3
B	Max. Internal Length	929,3
C	Max. External Width	1370,7
D	Max. Internal Width	1231,3
E	Min. External Length	755
F	Min. Internal Width	518,1
G	Height of C.S.P at Max. Hoisting Reach	1281
H	Max. Hoisting Reach	900,4
I	Min. Height of C.S.P	758
J	Hoisting Reach at Min. Height of C.S.P	699,4
K	Max. Height of C.S.P	1984,9
L	Hoisting Reach at Max. Height of C.S.P	621,7
M	Hoisting Range	1226,9
N	Min. Clearance	30,5
O	Max. Height Std. Castors	113
P	Turning Diameter	1444

Dimensions of Maxi Twin with a scale.



C.S.P = Central Suspension Point

Reference	Note	Dimension
A	Max. External Length	1298,3
B	Max. Internal Length	929,3
C	Max. External Width	1370,7
D	Max. Internal Width	1231,2
E	Min. External Length	755
F	Min. Internal Width	517,5
G	Height of C.S.P at Max. Hoisting Reach	1401
H	Max. Hoisting Reach	900,4
I	Min. Height of C.S.P	878
J	Hoisting Reach at Min. Height of C.S.P	695,9
K	Max. Height of C.S.P	2104,9
L	Hoisting Reach at Max. Height of C.S.P	621,7
M	Hoisting Range	1226,9
N	Min. Clearance	30,5
O	Max. Height Std. Castors	113
P	Turning Diameter	1444

Labels on battery and battery charger

On the charger you will find the following information:

Data label

Charger model	NEA 8000-WW NEA 8000-AU
100-240V 50-60Hz	Mains supply
0.35A	Maximum rated current
	Yellow: No battery Orange: Fast charge (400mA) Green: Charge completed
NEA0100	ArjoHuntleigh battery intended for this charger
	Insulation class Class II
	No installation in wet area
	Read the operation manual before use

Approval label

CE marking in accordance with the Directive 93/42/EEC (The Medical Devices Directive). The equipment has been EMC-tested and fulfills all requirements according to IEC 60601-1-2
ArjoHuntleigh is not aware of any reciprocal electromagnetic interference between Maxi Twin and other electrical products.



Certified by Underwriters Laboratories Inc. with respect to electric shock, fire, mechanical hazards and other specified hazards only in accordance with UL 60601-1 and CAN/CSA - C 22.2 No 601.1-M90.

Identification label

The identification label states the product number, the batch number, and the manufacturing date.

Battery label



Environmental danger.
Not for disposal



Recyclable

NiMH-Battery

TYPE: NEA 0100
Batch no: 123456
Made in Sweden for Arjo Hospital Equipment

Identification label

NiMH Battery
Type NEA 0100
24 V 2.5 Ah
Use only with Arjo charger Type NEAX000
CAUTION
Risk of fire
• Don't shortcircuit battery
• Don't place battery near heat source or fire
Made in Sweden for Arjo Hospital Equipment AB

Battery label

ARJO NEA8000-WW
Charger for ARJO battery NEA0100
100-240VAC 50-60Hz 0.35A
Status Indication:
Yellow: No Battery
Orange: Fast Charge (400 mA)
Green: Charge Completed
Type 2116
Made in Norway for ArjoHuntleigh

ARJO NEA8000-AU
Charger for ARJO battery NEA0100
100-240VAC 50-60Hz 0.35A
Status Indication:
Yellow: No Battery
Orange: Fast Charge (400 mA)
Green: Charge Completed
Type 2116
Made in Norway for ArjoHuntleigh

Data / Approval label-WW

Data / Approval label-AU

SE WWYY 0001
Sticker for Serial No.: WWYY = Year & Date of manufacture. 0001 = running number pr. week.

Labels on battery charger, Japan

On the charger you will find the following information:

Data label

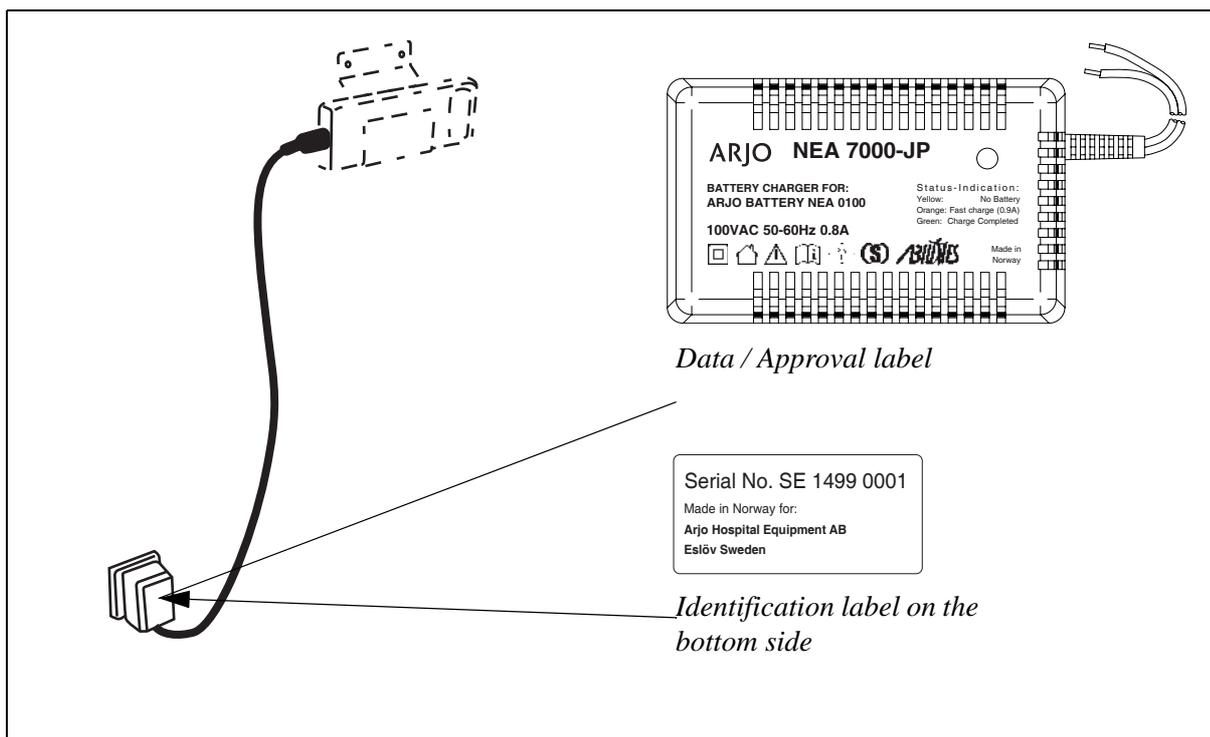
Charger model	NEA 7000-JP (Japan)
100V 50-60Hz	Mains supply
0.8A	Maximum current
	Output voltage and charge current 41 V Fast charge 0.9A Standby charge current 50 mA
NEA0100	ArjoHuntleigh battery intended for this charger
	Insulation class Class II
	No installation in wet area
	Read the operation instructions before use

Approval label

The equipment has been tested and fulfils all requirements according to J60335-1 3rd edition-H14, J60335-2-29 H14, J55014 H14 (EMC) and Appendix 4 of the Enforcement Regulation of the Electrical Appliance and Material Safety Law.

Identification label

The identification label states the batch number and the manufacturing country.

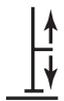


Labels on the lift

The data label, the identification label and the approval label are located on the pillar, behind the battery.

Data label

On the data label you will find the following information:

SWL	Safe Working Load 182 kg (400 lbs).
	Lifting stroke 1240 mm (48 3/4")
24V DC	Supply voltage
200VA	Lift max power
Fuse F1	F10AL
Fuse F2	T4AL
IP 44	Protection class
	Type B Applied part: protection against electrical shock in accordance with EN 60 601-1.
ED MAX 10%	Mode of operation for Hi/Low function: Max 2min ON and 18 min OFF
NDA0100 24V 2.5Ah	Product no and data of the battery
	Read the operation instructions before use.
	Separate electrical and electronic components for recycling in accordance with the European Directive 2002/96/EG (WEEE)
	CE marking in accordance with the Directive 93/42/EEC (The Medical Devices Directive)
	Classified with respect to electric shock, fire mechanical and other specified hazards only in accordance with UL60601-1 and CAN/CSA C22.2 No 601.1-M90 including measuring device.

Identification label

The identification label states the type of equipment and serial number (see figure).

Slings range label

Fitted to the spreader bar frame for quick colour reference to size and safe working load.

Attention label

On the spreader bar frame to indicate “not for use in bath or shower”.

Clips instructions labels

Labels placed by the knobs where the clips should be connected and on the spreader bar actuator.

Battery indicator label

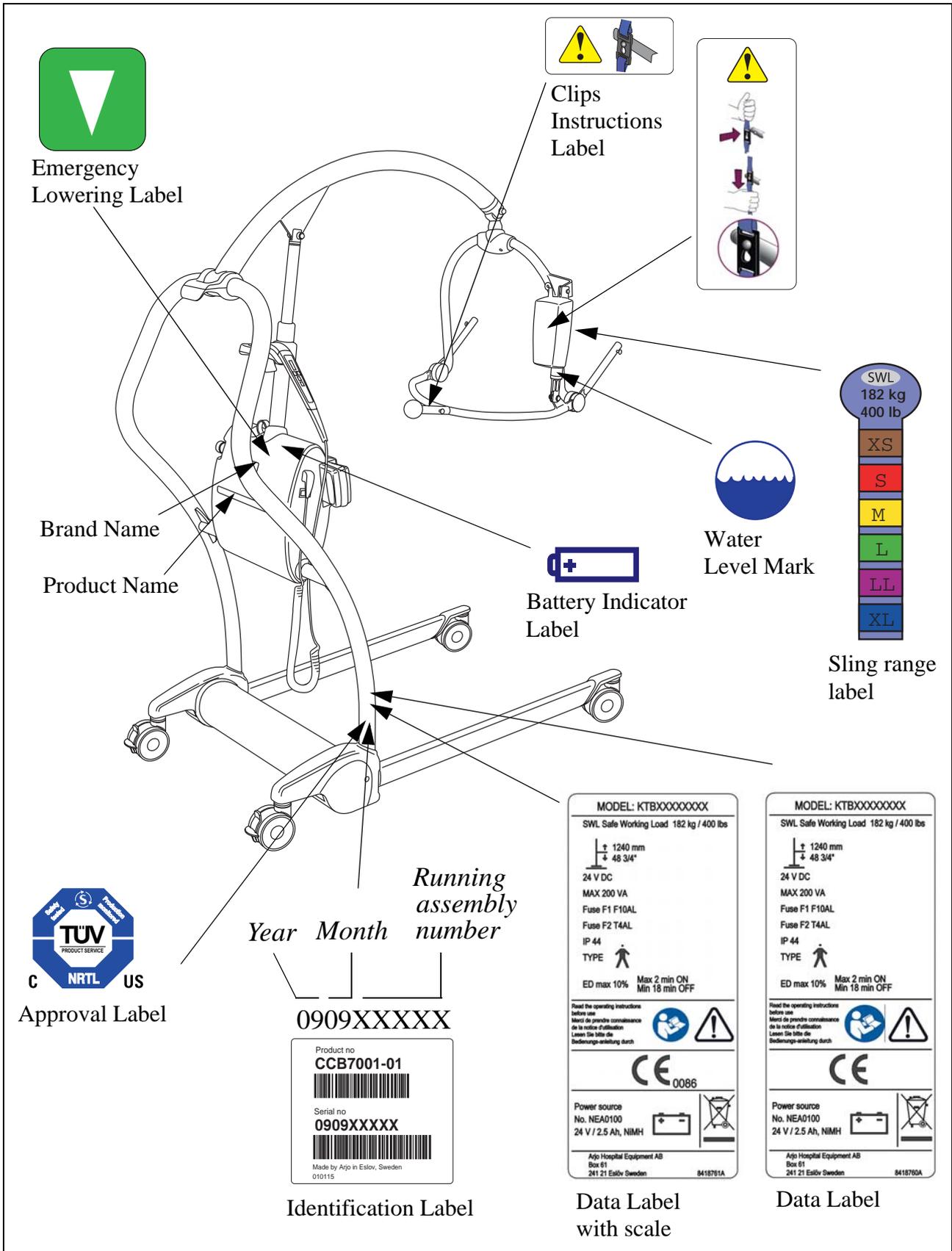
Positioned on the battery housing to indicate when the battery needs charging.

Emergency lowering label

Positioned near the control of emergency lowering.

Approval label

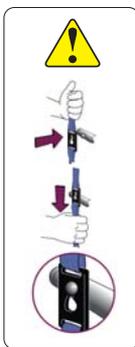
	TÜV marking. The lift has been safely tested according to: EN/ISO 10535 EN/ISO 12182 EN/ISO 60601-1 (NRTL - National Recognized Testing Laboratory) Biocompatibility ISO 10993 Note: Applies to USA and Canada Note: Applies to USA and Canada
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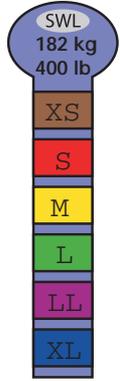
Emergency Lowering Label



Clips Instructions Label



Water Level Mark



Sling range label



Battery Indicator Label

Brand Name

Product Name



Approval Label

Year Month *Running assembly* number

0909XXXXX

Product no
CCB7001-01

Serial no
0909XXXXX

Made by Arjo in Eslov, Sweden
010115

Identification Label

MODEL: KTBXXXXXXX
SWL Safe Working Load 182 kg / 400 lbs

1240 mm
48 3/4"

24 V DC
MAX 200 VA
Fuse F1 F10AL
Fuse F2 T4AL
IP 44
TYPE
ED max 10% Max 2 min ON
Min 18 min OFF

Read the operating instructions before use
Lisez les notices d'utilisation avant de commencer l'utilisation
Lesen Sie bitte die Bedienungsanleitung durch

CE 0086

Power source
No. NEA0100
24 V / 2.5 Ah, NiMH

Arjo Hospital Equipment AB
Box 81
241 21 Eslov Sweden 8418761A

Data Label with scale

MODEL: KTBXXXXXXX
SWL Safe Working Load 182 kg / 400 lbs

1240 mm
48 3/4"

24 V DC
MAX 200 VA
Fuse F1 F10AL
Fuse F2 T4AL
IP 44
TYPE
ED max 10% Max 2 min ON
Min 18 min OFF

Read the operating instructions before use
Lisez les notices d'utilisation avant de commencer l'utilisation
Lesen Sie bitte die Bedienungsanleitung durch

CE

Power source
No. NEA0100
24 V / 2.5 Ah, NiMH

Arjo Hospital Equipment AB
Box 81
241 21 Eslov Sweden 8418760A

Data Label



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MD 87841 ISO 13485



7000202

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