ARJO

MAXI MOVE™

Operating and Product Care Instructions

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Introduction

GETINGE GROUP is a leading global provider of equipment and systems that contribute to quality enhancement and cost efficiency within healthcare and life sciences, Equipment, services, and technologies are supplied under the brands **ARJO** for patient hygiene, patient handling and wound care, **GETINGE** for infection control and prevention within healthcare and life science and **MAQUET** for surgical workplaces, cardiopulmonary and critical care.

ARJO strongly advise and warn that only ARJO designed parts, which are designed for the purpose, should be used on equipment and other appliances supplied by ARJO, to avoid injuries attributable to the use of inadequate parts.

Unauthorized modifications on any ARJO equipment may effect its safety. ARJO 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.

Contents

Foreword

Thank you for purchasing ARJO equipment

Your Maxi Move is part of a series of quality products designed especially for hospitals, nursing homes and other health care uses.

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 ARJO product.

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

All references to the patient in these instructions refer to the person being lifted, and references to the attendant refer to the person who operates the Maxi Move.

Techniques described in these instructions for fitting slings and lifting patients from a reclining position can be used for patients regardless of where they may be lying, on the bed or on the floor.

Similarly, lifting a patient from a chair employs the same techniques as when lifting a patient from a wheelchair or from a sitting position on the edge of a bed.

Note: The need for a second attendant to support the patient must be assessed for each individual case.

These instructions specifically show both the clip attachment slings being used with the standard Dynamic Positioning System (DPS) and the loop attachment slings with the loop spreader bar. The same methods and techniques described for the standard DPS can also be applied to the optional powered DPS.

Intended Use

Maxi Move is a mobile passive lift. With a modular approach, you can create a customized Maxi Move with the features, accessories and degree of flexibility that you need for your residents/patients.

Maxi Move is intended to be used in hospitals, nursing homes or other health care facilities for the different categories of residents/patients;

where the resident/patient

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

or, where the resident/patient

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

Maxi Move shall always be handled by a trained caregiver and in accordance with the instructions outlined in these Operating and Product Care Instructions.

Maxi Move is intended to be used with ARJO slings. Only use ARJO-supplied slings and stretchers that are designed to be used with Maxi Move.

Conditions

- The unit is cared for and serviced in accordance with recommended, published “Operating and Product Care Instructions” and the “Preventive Maintenance Schedule”.
- The unit is maintained to the minimum requirements as published in the “Preventive Maintenance Schedule”.
- The servicing and product care, in accordance with ARJO requirements, must begin on first use of the unit by the customer.
- The equipment must be used for its intended purpose only and is operated within the published limitations.
- Only ARJO designated spare parts should be used.

Expected lifetime

The expected lifetime of your ARJO lifter is 10 (ten) years from the date of manufacture, providing the following conditions are adhered to:-

The expected lifetime for fabric slings and fabric stretchers is approximately 2 years from date of purchase. This life expectancy only applies if the slings and stretchers have been cleaned, maintained and inspected in accordance with the “ARJO Sling Information” documents, the “Operating and Product Care Instructions” and the “Preventive Maintenance Schedule”.

The expected lifetime for other consumable products, such as batteries, fuses, lamps, gel cushions, filters, seal kits, seat inserts, mattresses, safety belts, padded covers, straps and cords is dependent upon the care and usage of the equipment concerned. Consumables must be maintained in accordance with published “Operating and Product Care Instructions” and the “Preventive Maintenance Schedule”.

The date of manufacture is shown in the first 6 digits of the serial number, e.g. GB0521 123456 (GB = country of manufacture, 05 = year 2005 and 21 = 21nd week of that year). The remaining digits, are the machine identification number.

Policy on number of staff members required for resident/ patient transfer

ARJO’s passive and active series of lifters are designed for safe usage with one caregiver. There are circumstances, such as combativness, obesity, contractures etc. of the individual that may dictate the need for a two person transfer. It is the responsibility of each facility and a professional medical person to make a determination if a one or two person transfer is more appropriate, based on task, resident load, environment, capability, and skill level of the staff member.

Safety Instructions

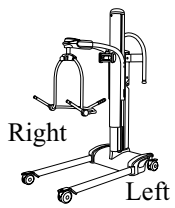
Before using your Maxi Move, familiarise yourself with the various parts and controls as illustrated in Fig. 1, and other illustrations, then please read this manual thoroughly in its entirety before using your Maxi Move. Information in the manual is crucial to the proper operation and maintenance of the equipment, and will help protect your product and ensure that the equipment performs to your satisfaction. Some of the information in this booklet is important for your safety and must be read and understood to help prevent possible injury. If there is anything in the manual that is confusing or difficult to understand, please call ARJO Ltd or their appointed distributor (the telephone number appears on the last page of this manual.

Symbols used adjacent to the text in these instructions:-

Warning: Means:- 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 or equipment.

• Note: Means:- this is important information for the correct use of this system or equipment.



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

This product has been designed and manufactured to provide you with trouble free use, however, this product does contain components that with regular use are subject to wear.

Warning: SOME OF THESE PARTS ARE SAFETY CRITICAL TO THE OPERATION OF THE LIFTER AND WILL NEED EXAMINING AND SERVICING ON A REGULAR BASIS AND MUST BE REPLACED WHEN NECESSARY.

See also “Care of your Maxi Move” section.

Warning: Use only ARJO slings and stretchers that have been specifically designed for the Maxi Move.

Warning: Before lifting a patient, a clinical assessment of the patients’ condition and suitability to be lifted should be carried out by a qualified person.

Warning: Patients with spasms can be lifted, but special attention should be paid to supporting the patient’s legs.

Warning: Do not overload the Maxi Move beyond the approved lifting capacity of the lowest rated attachment/accessory.

The Maxi Move may be used on gentle slopes with caution.

Care should be taken when manually lifting alternative/optional components e.g. stretcher frames, spreader bars etc., to avoid injury

Do not attempt to manually lift the complete lifter.

Caution: Although manufactured to a high standard the Maxi Move and accessories should not be left for extended periods in humid or wet areas.

Do not under any circumstances spray the Maxi Move or accessories (excluding slings or ARJO approved wet environment equipment) with water e.g. under the shower.

Warning: It is advisable to familiarise yourself and understand the operation of the various controls and features of the Maxi Move and ensure that any action or check specified is carried out before commencing to lift a patient.

Warning: The ARJO Maxi Move has been designed as a mobile lifter for raising and transporting patients in hospitals and care facility environments, and should only be used for this purpose.

The ARJO Maxi Move can be supplied with a variety of optional attachments, which may not be described in these instructions. If your Maxi Move has been fitted with an alternative/optional sub assembly e.g: stretcher etc.: then always refer to the separate relevant operating instructions supplement, as well as these instructions, before attempting to operate the lifter.

This product is intended to be operated entirely by an attendant. No functions regarding the control of this product should be performed by the patient. A second attendant may be required with certain patients.

Product Description/Function

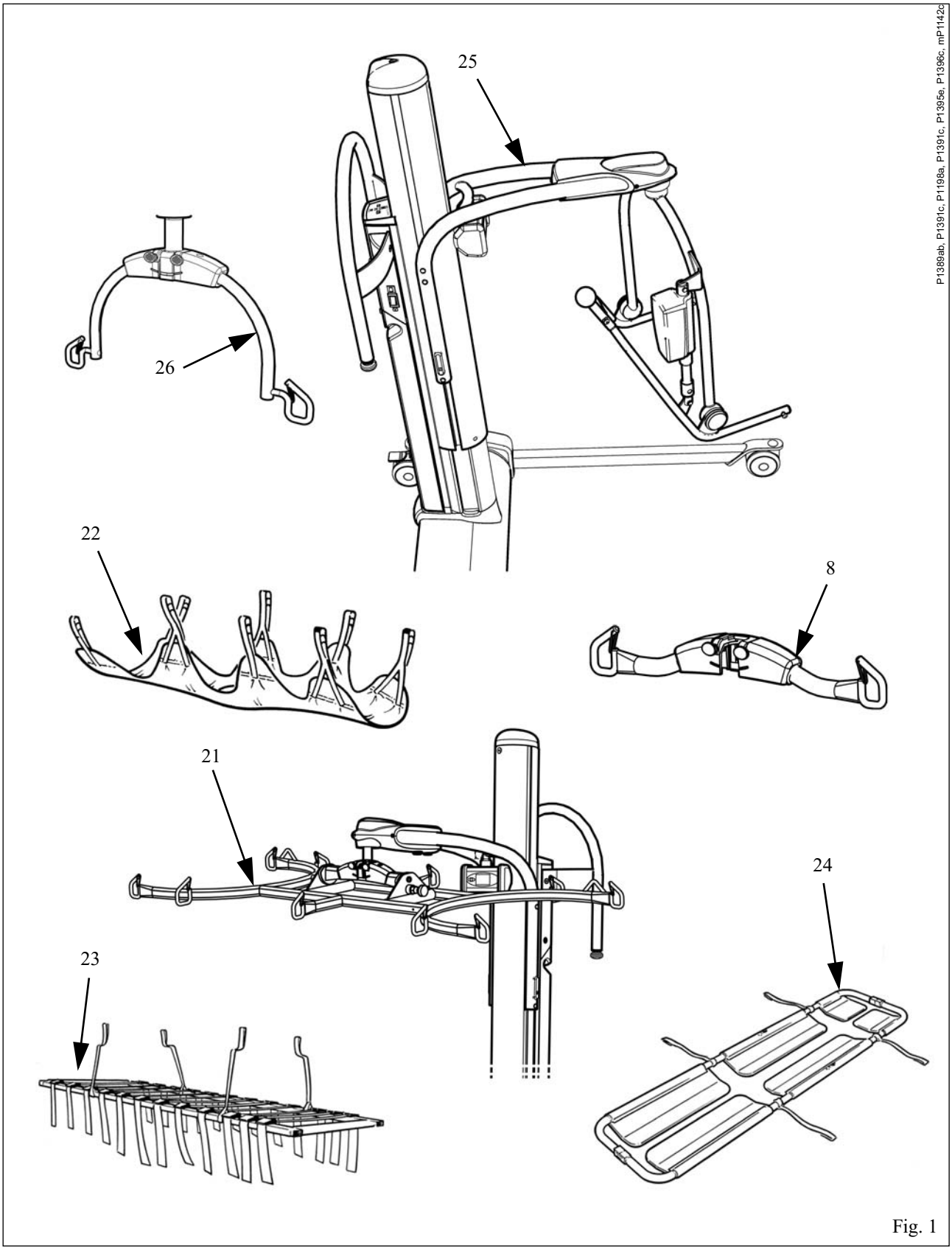
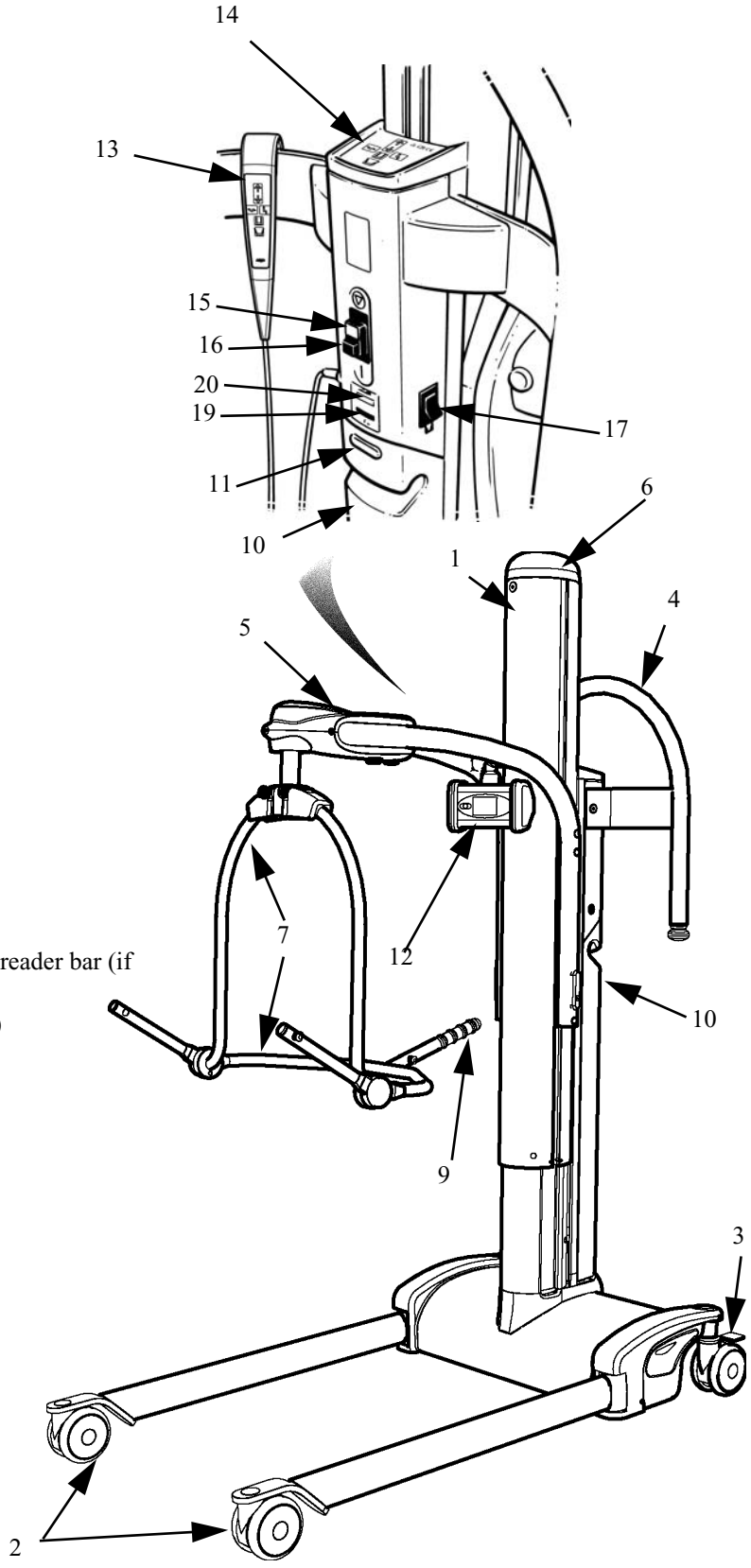


Fig. 1

Parts referred to in this manual

Fig. 1 Key

1. Mast
2. Adjustable chassis legs
3. Braked castors
4. Lifter manoeuvring handle
5. Jib
6. Mast top cover
7. DPS spreader bar
8. Loop flat/walking jacket spreader bar
9. Patient positioning handle
10. Lifter battery pack
11. Battery release button
12. Patient scale (if fitted)
13. Control handset
14. Dual control panel
15. Emergency stop button
16. Reset button
17. System failure lower override
18. ---
19. Battery discharge indicator
20. Minute meter
21. Folding stretcher frame (if supplied)
22. Soft stretcher (if supplied)
23. Strap stretcher (if supplied)
24. Scoop stretcher (if supplied)
25. Jib with powered patient positioning spreader bar (if supplied)
26. Medium loop spreader bar (if supplied)



Product Description/Function

Slings

- Note: The standard range of Maxi Move slings will support 228kg (500lbs), the peadiatric range will support 125kg (275lbs). All slings are coded for size by having different coloured edge binding as follows:

  Peadiatric rated:
  Teal -Extra Extra Small - XXS
  Brown - Extra small - XS
  Red - Small - S

  Standard range:
  Yellow - Medium - M
  Green - Large - L
  Purple - Large Large - LL
  Blue - Extra Large - XL
  Terracotta - Extra Extra Large - XXL

A label is fitted to the hanger frame for quick colour to size reference (see “Labels” section).

A range of special purpose slings are available as accessories, for these or for special size slings, contact your ARJO representative.

Warning: Only use ARJO supplied slings and stretchers that are designed to be used with Maxi Move. The sling profiles illustrated (see fig. 2) will help to identify the various ARJO slings and fabric stretchers available.

If ARJO Flites (disposable slings) are to be used with the Maxi Move, then always refer to the separate operating instructions for ARJO Flites, (literature reference part No. MAX01720), as well as these instructions before using.

Warning: ARJO slings with head support have two pockets at the head section which should contain plastic reinforcement pieces during use. Always ensure these reinforcement pieces have been inserted into the sling pockets before using the sling.

Product Description/Function

ARJO standard sling profiles that can be used with the Maxi Move

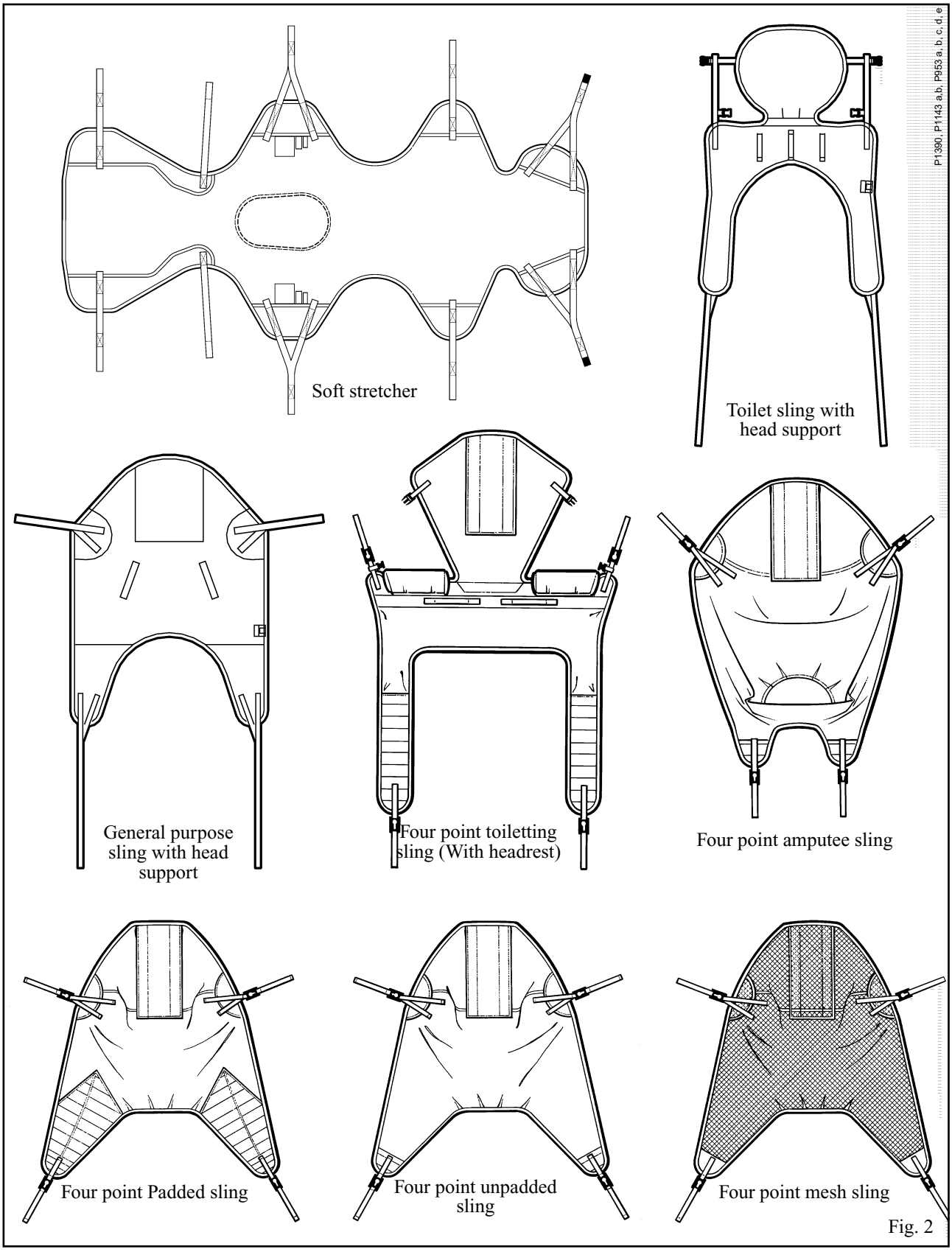


Fig. 2

Controls and features

The Maxi Move is fitted with a power saving feature which places the machine in 'Sleep Mode' when not used for a short time, to re-activate the machine press the up or down button.

- Note: There will be a 3 seconds delay before the machine restarts from 'Sleep Mode'.

Control Handset:- (see fig 3) Raising and lowering the jib and opening and closing the chassis legs, is achieved by pressing the appropriate button on the control handset. Note: icons with direction arrows are printed on each button for quick reference.

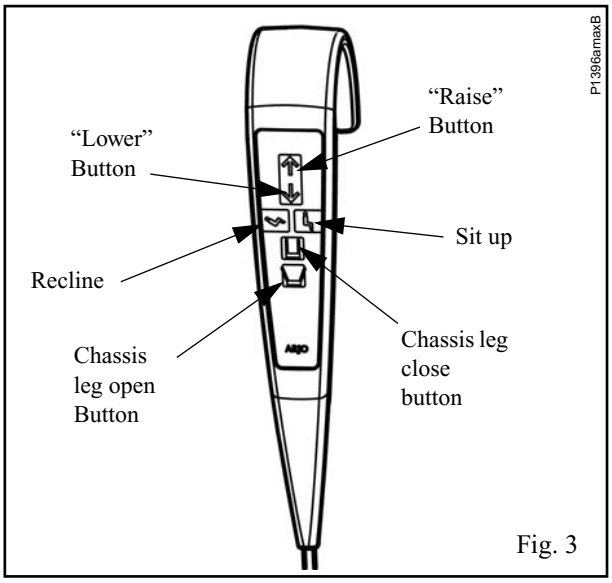


Fig. 3

If pressure is released during any function powered motion will cease immediately. Do not drop the handset into water, e.g.: bath etc., although if this does happen inadvertently no harm will come to patient or attendant.

When not in use, the handset can be conveniently kept ready for use by hooking it over the handle support at the rear of the mast.

Dual Control Panel:- (see fig 4) An additional feature available on the Maxi Move, is a mast mounted dual switch panel which operates in parallel with the control handset enabling powered operations to be controlled from the lifter mast as well as remotely, using the handset. As with the handset, icons with direction arrows are printed on each button for quick reference.

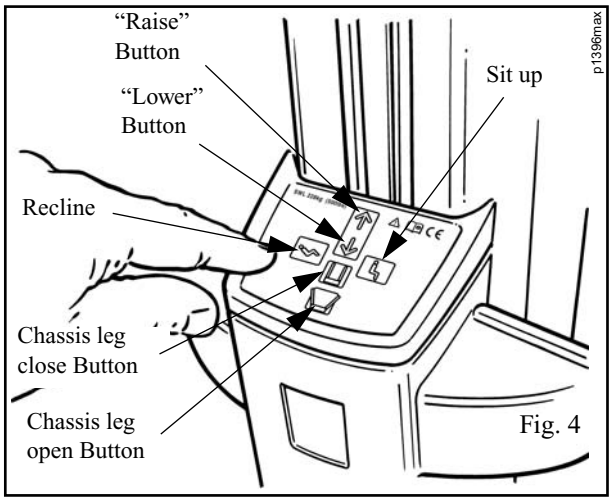


Fig. 4

Emergency Stop Button (Red):- (See fig 5) If, in an emergency, you have to immediately stop any powered movement, (other than by releasing pressure on the control handset button or dual switch panel button), press the "emergency stop button", situated on the rear of the mast.

Once the emergency stop button has been operated, the green reset button will have to be re-engaged by pressing it in, before any powered movement can be utilised.

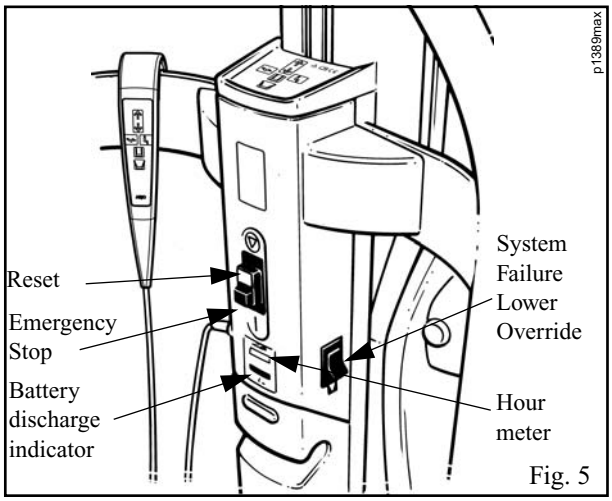


Fig. 5

Reset button (green):- (See fig 5) Adjacent to the emergency stop button. It is used to reset the 'power on' condition, once the emergency stop button has been operated, also used to reset if the automatic overload fuse has operated, indicated by the reset button projecting outwards slightly. If the fuse has operated and once reset, operates again, withdraw the lifter from use and contact ARJO Service department or their appointed distributor.

System Failure Lower Override:- (See fig 5) This can be used in the event of main control failure. In the unlikely event that the control handset or dual switch panel fails to operate the lifter, with a patient still supported by the sling or stretcher, provision for lowering has been made, using the "System Failure Lower Override switch", situated on the right hand side of the controls console, a green and white identification label is positioned near the switch, for quick and easy recognition. If pressure is released from the switch during use, lowering will stop.

Warning: The Lower Override switch will only operate while the green reset button is in. Only use this switch in an emergency, do not use it for normal function lowering.

System Failure Wind Down Facility:- (see Figs. 6 & 7) If the electrical power fails completely due to battery power loss or other electrical malfunction, the jib can be lowered, by firstly removing the battery pack, then using a coin or screwdriver slacken and remove the screw that retains the mast top cover. Slightly lift the rear side of the top cover approximately 5 mm (3/16 in), slide the cover forwards then lift it off the mast. Identify and remove the hexagon wrench located inside the mast. Using the wrench slacken the shaft lockscrew located at the top front of the mast (see fig. 7c), turn it 3 full turns anti-clockwise. Identify the hexagonal hole in the shaft centre inside the mast (see fig. 7d) and using the wrench turn the shaft clockwise to lower the patient.

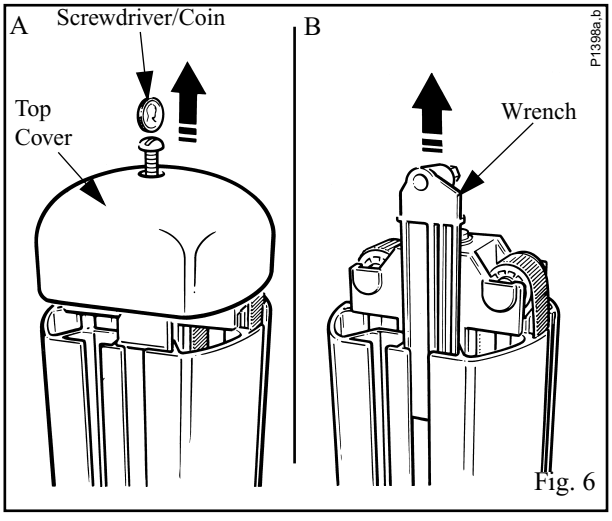


Fig. 6

- Note: One full clockwise rotation of the shaft lowers the mast jib by 10mm (3/8 in).

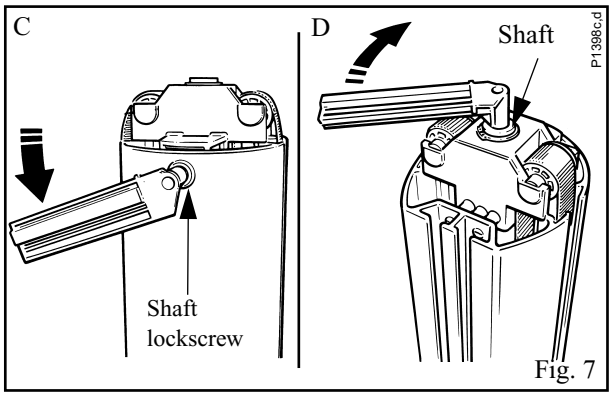


Fig. 7

Warning: If the mast is in a high position and the wind down facility has to be utilized always ensure that suitable and safe measures are taken to gain access to the top cover.

Hold the hexagon wrench securely into the shaft and do not release hand contact with the wrench to ensure control is maintained during the lowering procedure.

Once the patient has been lowered and removed from the lifter ensure the components are re-assembled by reversing the above procedure.

- Note: To enable the shaft lockscrew to be tightened three full turns the shaft may have to be rotated slightly to make alignment possible, this is aided by identifying the alignment mark on the top of the shaft and then rotating the shaft until the mark aligns with the axis of the lockscrew.

If the system failure lower override switch or wind down facility has to be operated the lifter must then be withdrawn from use immediately and the ARJO Service Department or their appointed distributor contacted.

Automatic cut out:- (not an operator control but a function built into the lifter electronics)
If the lifter is inadvertently overloaded (trying to lift a patient heavier than permitted), an automatic 'cut out' operates to prevent the lifter lifting a load in excess of one and a half times the maximum rated load; this will stop the lift motion automatically.

If this occurs, when pressure is released from the lift button on the handset or dual control the electronics will, after a short delay, reset and enable the patient to be lowered only by pressing either lower button. Remove the patient from the lifter.

Automatic stop function:- (not an operator control but a function built into the lifter electronics).Great care should be taken not to lower the spreader bar, or stretcher onto the patient or any other obstruction, but if this should happen inadvertently the motor will stop and downward movement will be held by the obstruction. If this occurs release pressure from the 'lower' button immediately, operate the 'raise' button until clear, then remove the obstruction.

Battery Indicators:-
There are two types of battery indicator; (See fig 5)

A Single red lamp, which will flash when the battery requires recharging, and a Battery Discharge Indicator**;** this is a small LED display which shows the charge condition of the lifter battery. (See also 'Battery Charging Section' for complete description).

Minute meter:- (See fig 5) Is a small LED display which shows the total duration of powered operation (in hours). This is primarily intended as an aid to service engineers and to help the attendant calculate servicing intervals. The display will illuminate for approx. 5 seconds when the lifter is first powered on, and when returning from 'sleep mode'.

Adjustable width chassis legs:- (See fig 8) By operating the appropriate button on either the control handset or dual control panel on the lifter the chassis legs can be opened to any variable width. When pressure is released from the button, movement will stop and the chassis legs will remain securely in position. Always transport the chassis legs in the narrow (closed) position.

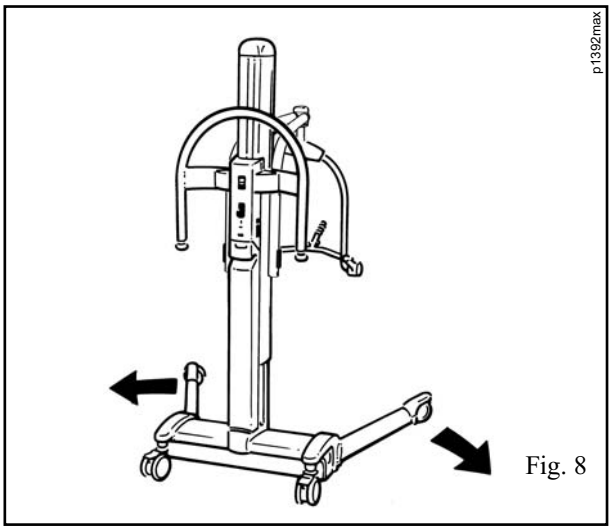


Fig. 8

Chassis castor Brakes:- (See fig 9) The chassis rear castors have brakes which can be foot operated if required to keep the Maxi Move in position.

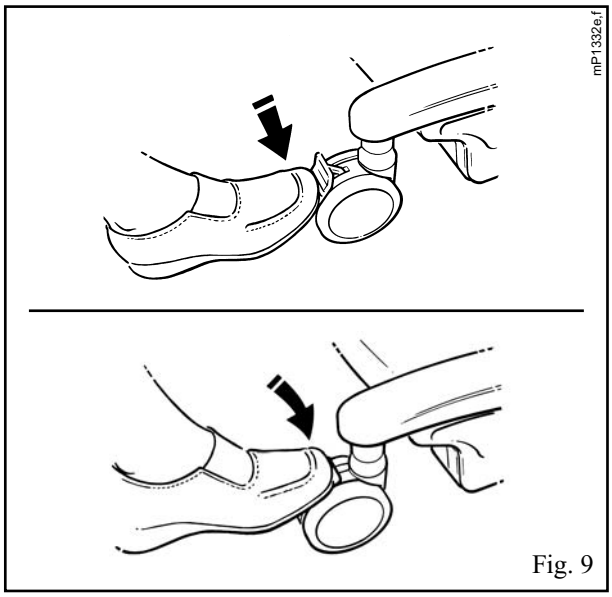


Fig. 9

Jib and spreader bars/stretcher frame:-
(see fig 1) If your Maxi Move has not been supplied with a 'dedicated' or permanently attached, spreader bar , then it will be supplied with the 'Lock and Load' system jib. This jib is fitted with a carrier, able to accommodate any of the Maxi Move jib attachments, eg. Loop/DPS spreader bars, stretcher frame etc. (see "Using your Maxi Move" section for full instructions on fitting or changing attachments).

Using your Maxi Move

Before approaching the patient

Ensure the battery pack supplied is fully charged before use (for charging, see instructions in “Lifter Battery Charging” section). When the battery pack is fully charged remove it from the charger unit and insert it into the battery position of the Maxi Move situated at the rear of the mast (see Fig. 1) by firstly, locating the recess across the bottom of the battery with the protrusion at the bottom of the battery position, then pivot the battery into position until the retaining catch operates. Electrical connection will be made automatically.

Ensure the green reset button (situated on the control console below the dual control panel) is pressed in (see fig. 5)

Ensure a selection of sling types and sizes are easily available for all types of lift likely to be encountered when using the ARJO Maxi Move.

The attendant should always tell the patient what they are going to do, and have the correct size sling ready. Where possible, always approach the patient from the front.

Warning: To ensure maximum patient comfort, do not allow the patient to hold onto the spreader bar.

If required, the chassis legs may be opened to go around a chair or wheelchair.

Powered opening ‘V’ chassis

Select the appropriate button on the control handset or dual switch panel and keep it depressed until the required width is achieved. To close, press the appropriate button, movement will stop if pressure is released, whether opening or closing.

Warning: When opening or closing the legs on a powered chassis, care must be taken not to allow anyone to stand in the way of the moving chassis legs.

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

Using Maxi Move 'Lock and Load' system

(see figs. 10 & 11)

If your Maxi Move has not been supplied with a 'dedicated' or permanently attached, spreader bar, then it will be supplied with the 'Lock and Load' System jib. You may need to fit or change the attachment, (i.e.: spreader bar or stretcher fame) proceed as follows:-

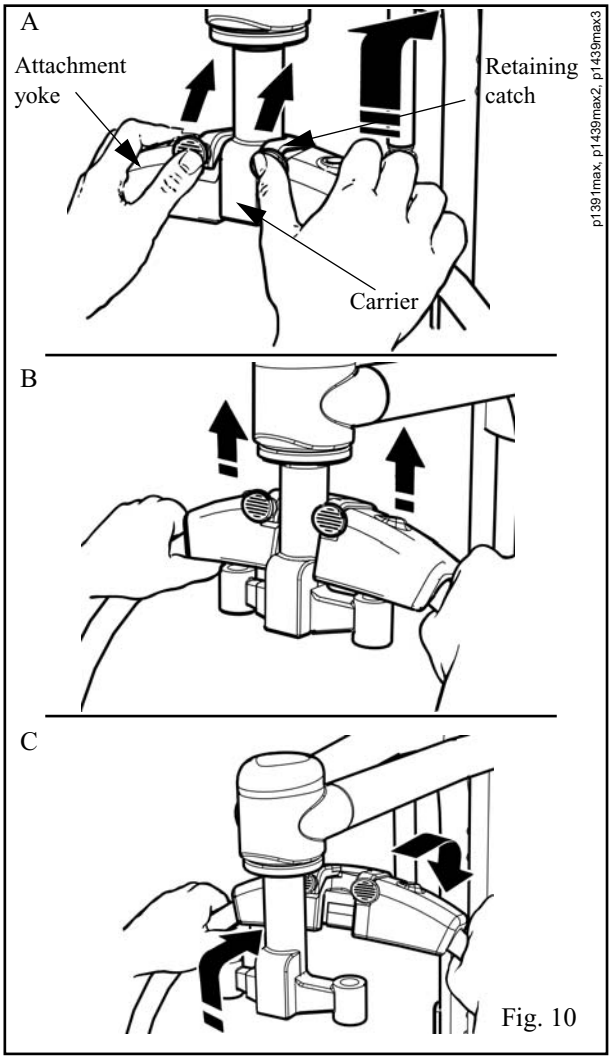


Fig. 10

To remove an existing attachment, hold the unit carefully and to release, depress the retaining catch on the attachment yoke (see fig. 10A). Then lift the yoke upwards and away from the carrier (see fig. 10B and 10C), store carefully for future use. Select the attachment required then carefully lift the unit up and allow the recess in the yoke to fit around the carrier shaft (see fig. 11A). Ensure the yoke drops down over the carrier and the retaining catch engages.

Warning: Check to see that the yoke is locked in place by trying to lift the yoke without pushing in the retaining catch.

Check that the markings on the hangerbar is aligned with the corresponding marking on the carrier (see fig. 11B) which indicates a proper attachment of the hangerbar to the carrier.

- Note: The yoke should always be rotated to the correct position (see Fig. 11A) before attempting to install an attachment.

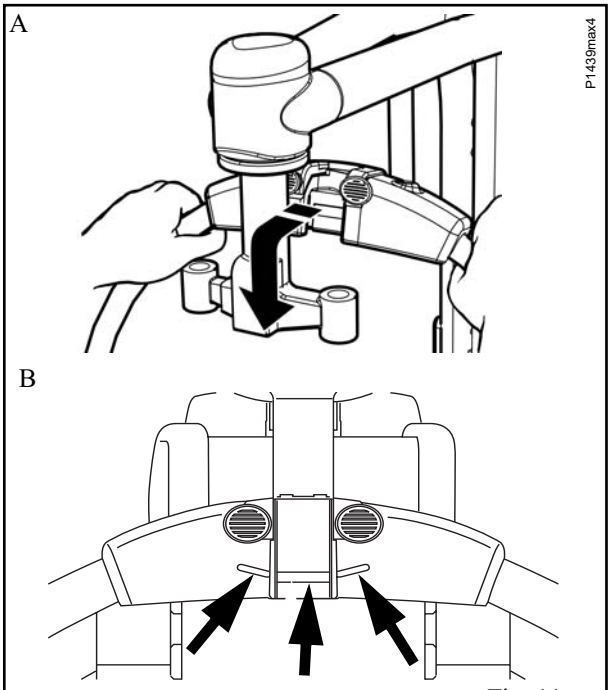


Fig. 11

Warning: Care must be taken when the weight of the unit comes away from the jib.

For larger attachments or if in any doubt about being able to lift and hold the attachment securely use more than one person for the operation, or support the attachment on a bed or chair.

Lifting with the DPS spreader bar

Warning: Always ensure that the spreader bar is securely connected before commencing any lifting procedure by checking the alignment of the markings on the spreader bar and the jib/carrier according to fig. 11B.
('Lock and Load' system jib only)

To lift from a chair

Place the sling around the patient so that the base of his/her spine is covered, and the head support area is behind the head. Pull each leg piece under the thigh so that it emerges on the inside of the thigh. (See fig. 12).

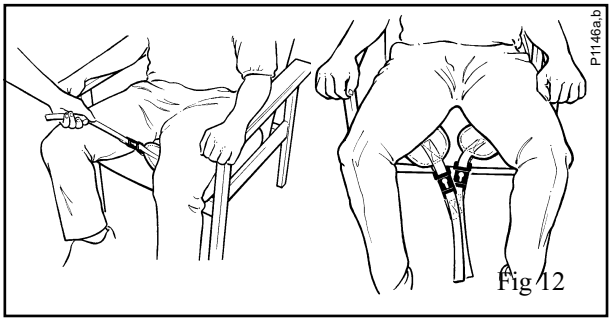


Fig 12

Ensure the positioning handle on the spreader bar is facing away from the patient, and that the wide part of the spreader bar is at, or just below shoulder level. (See fig. 13).

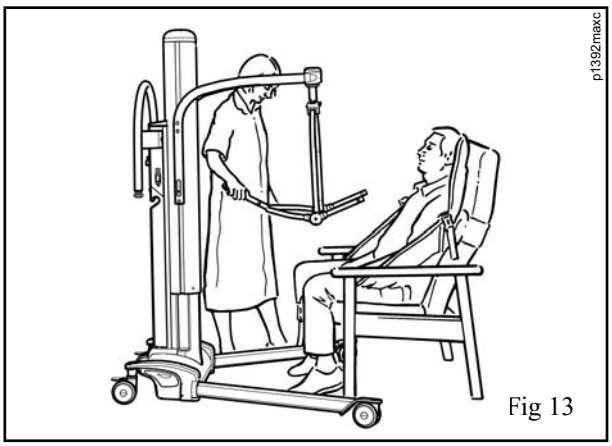


Fig 13

Ensure that the Maxi Move is close enough to be able to attach the shoulder clips of the sling to the spreader bar. To accomplish this you may have to put the patients feet on, or over the chassis.

Warning: When fitting and lifting using the sling with the DPS spreader bar, ensure the patients hands and arms are at all times kept inside the sling. Do not allow the patient to 'hold on' to the hanger frame.

Once the Maxi Move is in position, attach the shoulder strap attachment clips to the pegs on the spreader bar. (See fig. 14).

- Note: The chassis rear castors have brakes which can be foot operated when required (see fig.9). Do not apply the castor brakes at this stage, as the position of the patient will adjust to his/her own centre of gravity when lifted.

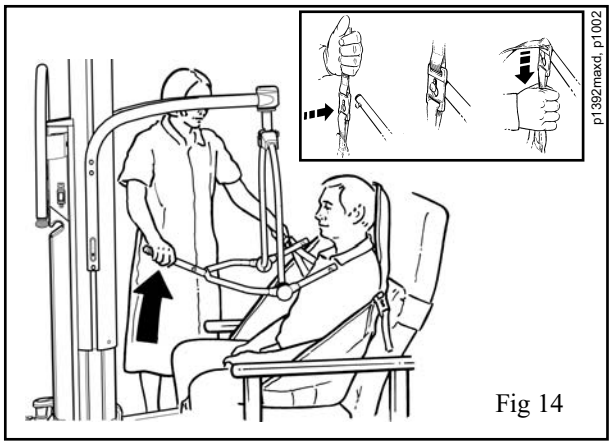


Fig 14

Warning: Apply the castor brakes to keep the Maxi Move in position on a sloping surface.

Press down on the positioning handle of the spreader bar and attach the leg strap attachment clips. (See fig. 15).

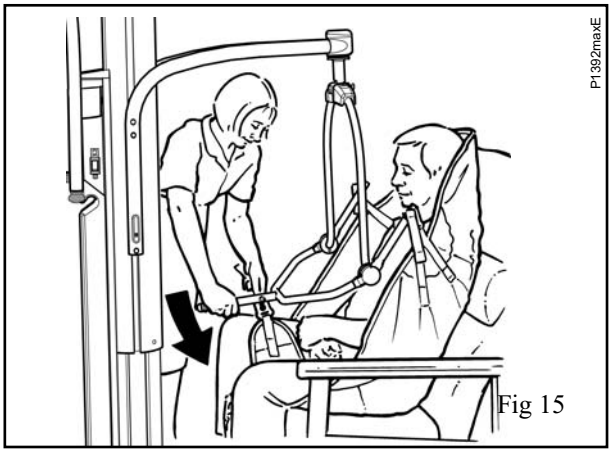


Fig 15

If necessary, lower the spreader bar using the handset control, being careful not to lower it onto the patient, although if this should happen inadvertently, there is a built in cut-out device which will prevent any further downwards movement. Do not continue to press the handset lowering button.

- Note: If the handset button is released during lifting or lowering, powered motion will stop immediately.

Warning: IMPORTANT: Always check that the sling attachment clips are fully in position before and during the commencement of the lifting cycle, and in tension as the patient's weight is gradually taken up.

Raise the patient by operating the handset control, move the lifter away from the chair then carefully lift the positioning handle until the patient is reclined in the sling - the head support will now come into use. (See fig. 16). This is the most comfortable position for transportation, as it reduces pressure on the thighs. The angle of recline can be adjusted for increased comfort if the patient is restless.

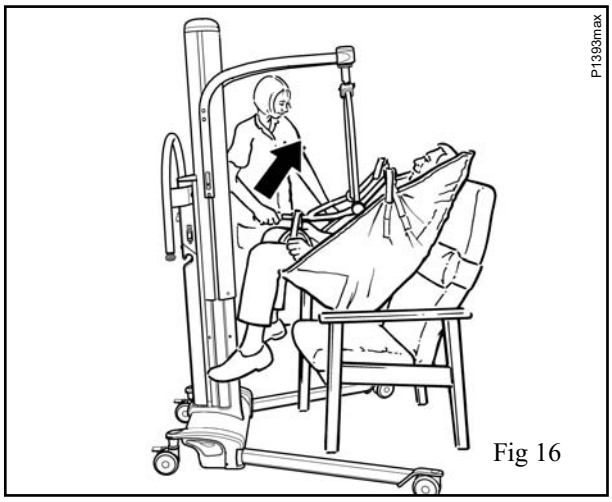


Fig 16

Before transportation, turn the patient to face the attendant at approximately normal chair height. (See fig. 17). This gives confidence and dignity and also improves the Maxi Move stability.

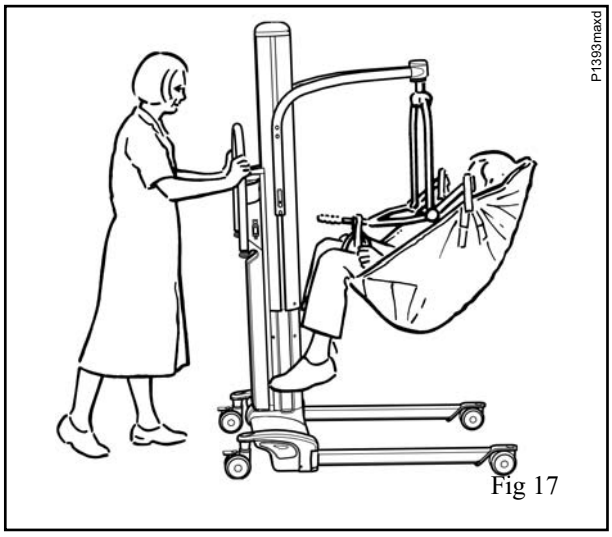


Fig 17

Remember to release the brakes, if they have been applied, before attempting to transport the patient.

When lowering the patient back into a chair - or when transferring from bed to chair - push down on the positioning handle to put the patient into a good sitting position. This avoids further lifting effort. Take care not to push down too quickly, as this may jerk the patient's head forward.

Warning: When lowering the lifter ensure that the patient's or attendant's legs and feet are well clear of the moving mast.

To lift from a bed

Before lifting a person from a bed, ensure there is sufficient clearance underneath to accommodate the Maxi Move chassis legs.

Position the patient onto the sling by rolling the patient towards you then folding the sling in half and placing it behind the patient's back (see fig. 18). Position the sling carefully so that when rolled back the patient will lie centrally on the sling (see fig. 19) and check that the head support area of the sling covers the patient's neck.

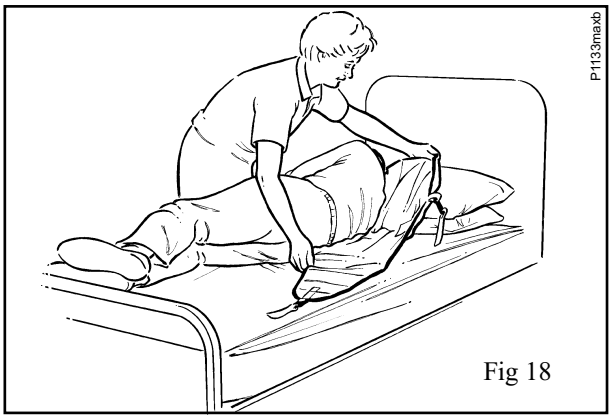


Fig 18

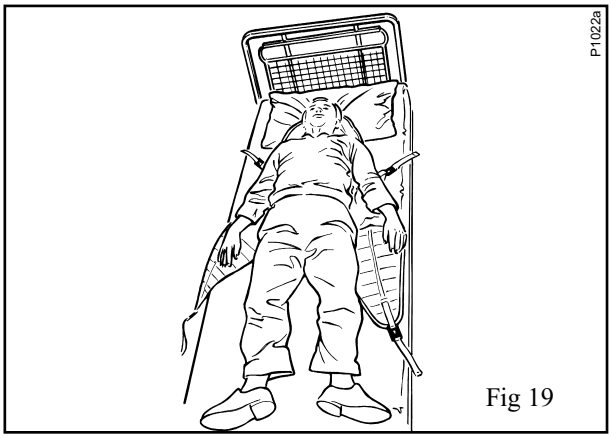


Fig 19

- Note: When rolling the patient back onto the sling, roll the patient slightly in the opposite direction so that the folded part of the sling can be brought out.

Alternatively, the patient can be brought into a sitting posture then position the sling as detailed in the section "To Lift From A Chair".

Approach the bed with the open side of the spreader bar towards the patient's head. (See fig. 20).

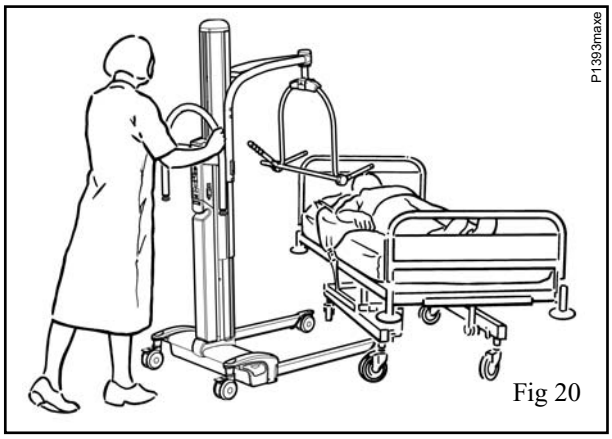


Fig 20

Using the adjustable width chassis, it is possible to make adjustments to chassis leg widths to assist manoeuvrability around obstructions, for example, bed legs.

Position the Maxi Move so that the spreader bar is just above, and centrally situated over the patient.

Warning: Care must be taken not to lower the spreader bar onto the patient.

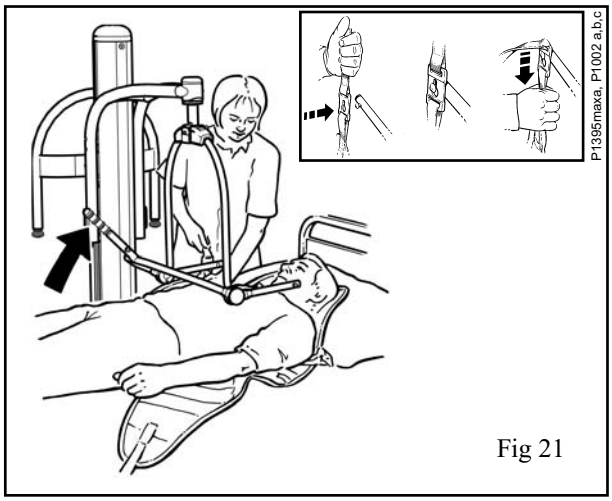


Fig 21

Using the positioning handle, tilt the spreader bar until the shoulder attachment points can be connected to the sling shoulder strap attachment clips. (See fig. 21).

Press down on the positioning handle until connection of the sling leg pieces is possible. (See fig. 22) The leg pieces must be brought under the thighs to connect up, this may involve lifting one leg at a time to connect up. You may need to lower the spreader bar a little more, using the handset control.

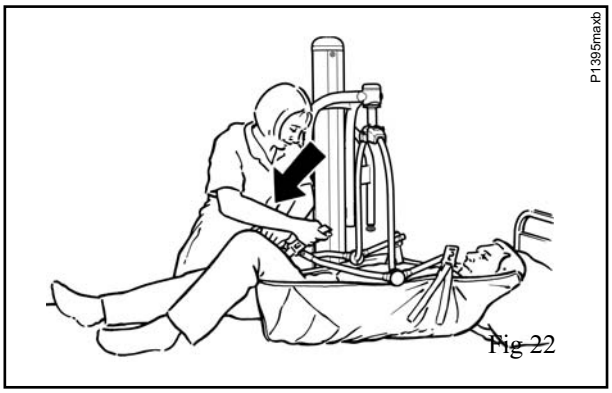


Fig 22

When lifting from the bed, some attendants prefer to connect the leg pieces first. This particularly applies to patients with large thighs. In this case, raise the hip and knee into maximum flexion, and attach the leg strap attachment clips, then tilt the spreader bar towards the shoulders for connection.

Warning: IMPORTANT: Always check that the sling attachment clips are fully in position before and during the commencement of the lifting cycle, and in tension as the patient's weight is gradually taken up.

Lift the patient using the handset control, and adjust to a comfortable position for transfer. (See fig. 23). The specially designed sling together with its' integral head support, enables one person to carry out the complete lifting function without additional help.

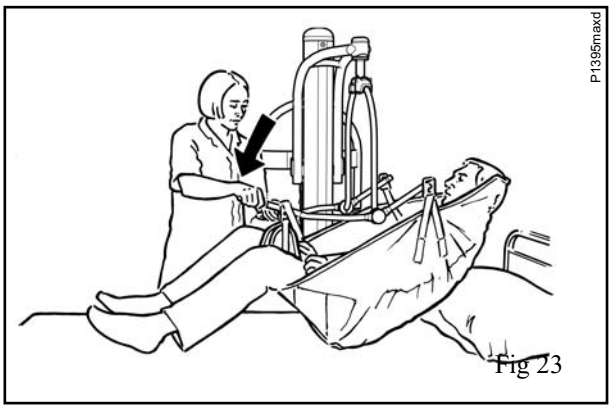


Fig 23

If returning the patient to a bed, move into the desired position above the bed adjusting the sling position as necessary, and then lower using the handset control.

Warning: When lowering the lifter ensure that the patient's or attendant's legs and feet are well clear of the moving mast.

Only when the patient's body weight is fully supported by the bed may the sling leg connection clips be detached, followed by the shoulder connections.

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

To raise from the floor

Put the sling around the patient as before, by using the rolling or sitting up method.

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

Depending on circumstances, space and/or position of patient etc. approach the patient with the open part of the chassis. Open the chassis legs if necessary, and lift the patient's legs over the chassis as shown in figure 24.

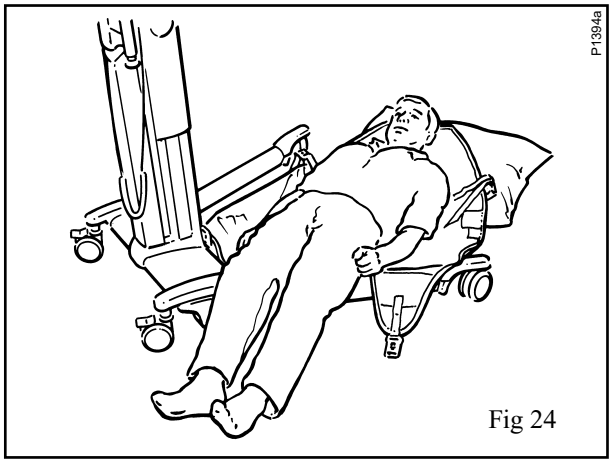


Fig 24

Warning: Whilst the patient is positioned over the legs as shown in fig 24, DO NOT operate the leg actuator.

The patient's head and shoulders could be raised on pillows for comfort, if required, but this is not essential when connecting up the sling to the spreader bar.

With the open part of the spreader bar pointing down towards the shoulders, attach the shoulder strap attachment clips, as shown in figure 25 and inset.

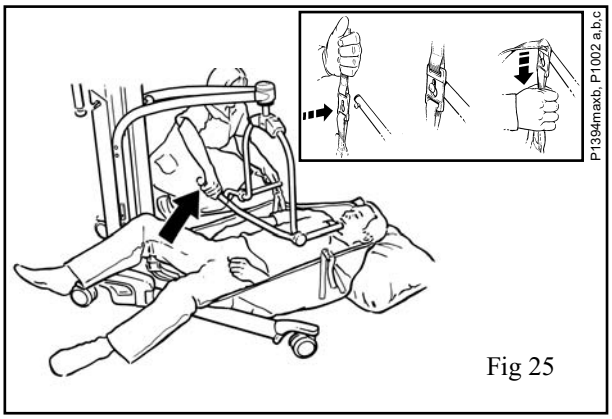


Fig 25

Once connected, raise the hip and knee into maximum flexion, and push down on the positioning handle in order to connect the leg strap attachment clips as shown in figure 26. This will have the effect of raising the patient's head and shoulders slightly.

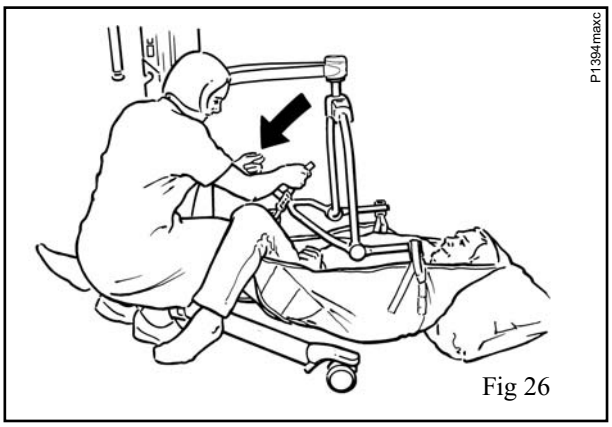


Fig 26

Warning: IMPORTANT: Always check that the sling attachment clips are fully in position before and during the commencement of the lifting cycle, and in tension as the patient's weight is gradually taken up.

When lifting from the floor, some attendants prefer to connect the leg pieces first. This in particular applies to the very large patient with large thighs. In this case, raise the hip and knee into maximum flexion, and attach the leg straps first, then tilt the spreader bar towards the shoulders to enable the shoulder straps to be connected.

When all the straps have been properly connected, raise the patient from the floor in a semi-recumbent position. Supporting the head can be comfortable and reassuring for the patient. Once raised from the floor, ensure the patient's legs are clear of the chassis before continuing to lift. (See fig. 27). The leg sections of the sling will tend to be fairly high in the crotch, so straighten them out for added comfort. The patient may be positioned in a chair, or placed onto a bed. If the patient is prone to extensor spasm, he/she may be lifted by the Maxi Move, but special attention should be paid to supporting the legs during the early part of the lift.

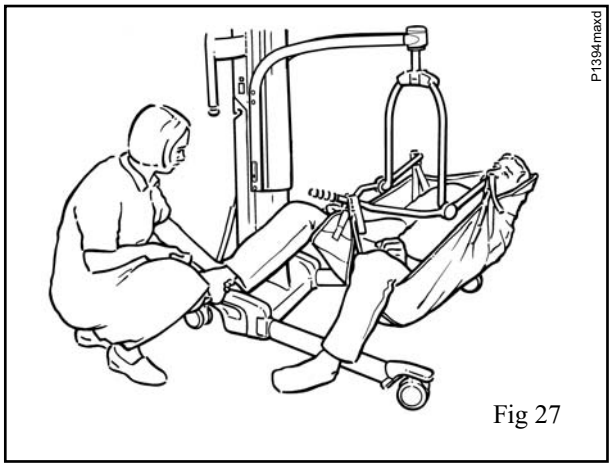


Fig 27

When lifting patient's with leg amputations, use the double amputee sling (available as an accessory from ARJO Ltd). This sling is specially designed to accommodate the differing patient centre of gravity.

Warning: When lowering the lifter ensure that the patient's or attendant's legs and feet are well clear of the moving mast.

Transportation of a patient should always be done with the chassis legs parallel (closed) manoeuvrability will be easier, especially through doorways, with the chassis legs closed. The patient should be positioned facing the attendant. (See fig. 17).

Lifting with Powered DPS spreader bar (if fitted)

If your lifter has been supplied fitted with a powered DPS spreader bar, the use of this type of spreader bar including sling positioning with patient, sling connection to the spreader bar, and patient handling, is the same as the non-powered DPS spreader bar described previously in these instructions.

Warning: Always ensure that the spreader bar is securely connected before commencing any lifting procedure by checking the alignment of the markings on the spreader bar and the jib/carrier according to fig. 11B.
('Lock and Load' system jib only)

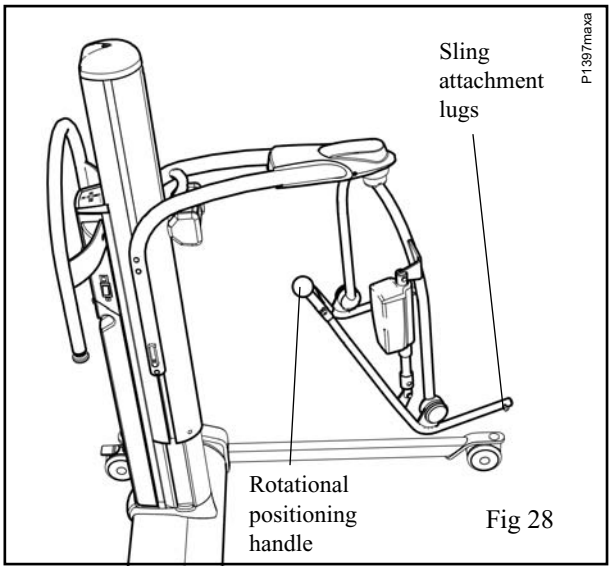


Fig 28

The fundamental difference being, the powered DPS spreader bar has the added advantage of enabling the patient positioning manoeuvre to be performed with minimal physical effort by the attendant.

Rotation of the powered spreader bar is manual and is the same as the manual patient positioning spreader bar.

Warning: Before using your lifter when fitted with the powered DPS spreader bar, familiarise yourself with the various parts as illustrated in figure 28. then read and thoroughly understand the following operating instructions.

The powered DPS spreader bar must be used in accordance with the following instructions and in conjunction with the operating instructions previously described for the manually operated (non-powered) four point spreader bar.

The lifting capacity of the lifter when fitted with the powered DPS spreader bar remains the same as the non-powered patient positioning spreader bar version.

The powered DPS is waterproof and is classified by ARJO as a wet environment unit and has a blue and white circular label to qualify this, attached. (See "Labels" Section). This label signifies that the lower end of the unit may be immersed in bath water, or used for showering.

To operate the powered patient positioning function, ensure the isolator/cut off switch is in the on position

When ready to perform the patient positioning function (as described previously) operate the powered DPS control button (see fig. 29) to achieve spreader bar movement in the required direction.

Powered movement will continue until pressure is released from the control switch.

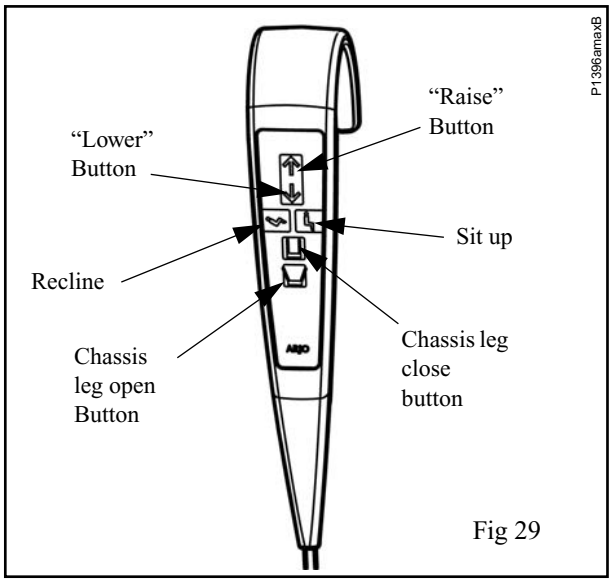


Fig 29

Warning: To stop any powered movement, release pressure from the control switch or press the emergency stop button.

The spreader bar will remain firmly in position, once powered movement has ceased.

Warning: Before and during operating the powered DPS spreader bar, ensure all obstructions are well clear of the spreader bar, support frame and jib.

Care of your powered DPS spreader bar

For general care refer to the “Care Section”. Refer in particularly to paragraphs relating to cleaning, plastic parts, labels, etc.

Warning: The actuator covers contain moving parts, care must be taken not to damage these covers. Should the covers become damaged, withdraw the lifter from use and arrange replacement of the actuator before re-using the lifter.

Using the loop spreader bar

Warning: Always ensure that the spreader bar is securely connected before commencing any lifting procedure by checking the alignment of the markings on the spreader bar and the jib/carrier according to fig. 11B.
(‘Lock and Load’ system jib only)

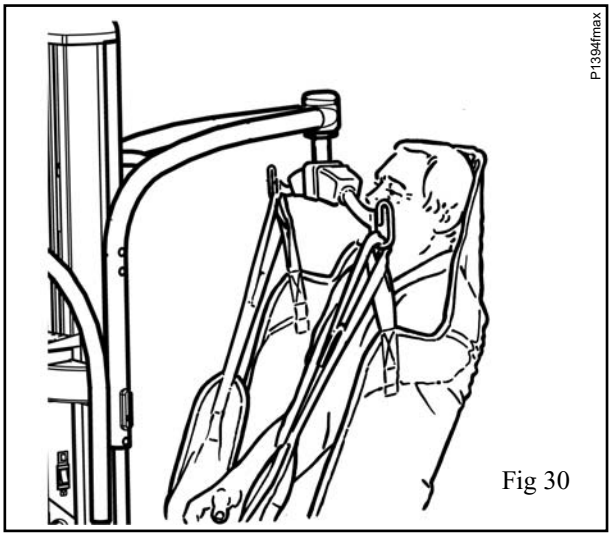


Fig 30

Warning: Before attaching the sling ensure the spreader bar is rotated into position so the eventual lift will resemble figure 30.

When attaching a loop sling to the 2 point spreader bar always ensure the sling attachment loops are positioned correctly into the retaining hooks as shown in fig. 31.

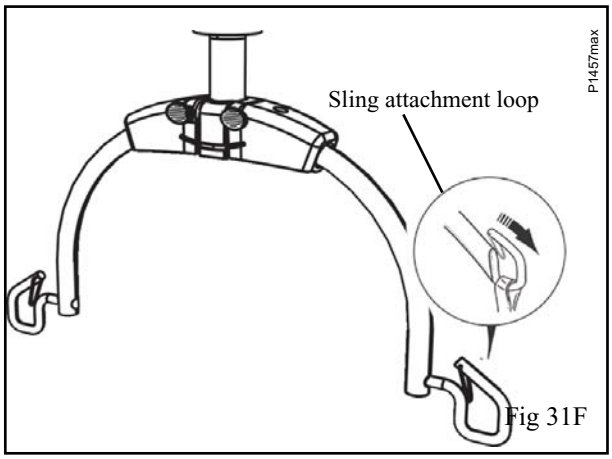


Fig 31F

The slings to be used with the Loop spreader bar are the ARJO loop slings (see fig. 2). They are available in different sizes, (small, medium, large and extra large etc.) all colour coded. A range of more specialised slings are available please contact ARJO or their authorised distributors for details.

The loop sling is available with or without head support. A mesh sling is also available in all sizes with or without head support.

To lift from a chair

Method 1 - Easing the patient forward, if necessary, slide the sling down the patient’s back until seam “C” (see fig. 32) reaches the base of the spine. Take attachment points “B” and loop the tails of the sling underneath the patient’s thighs, ensuring the sling pieces are not twisted underneath the patient. Hook the loops onto the “opposite side” outer hooks on the spreader bar. (See fig. 33).

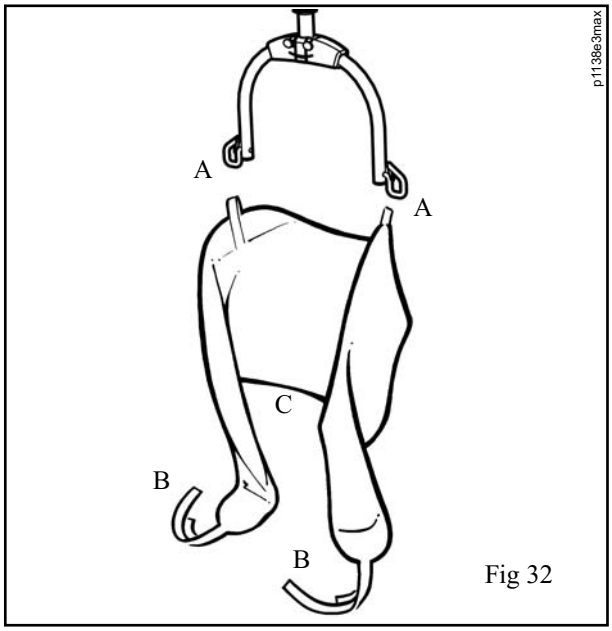
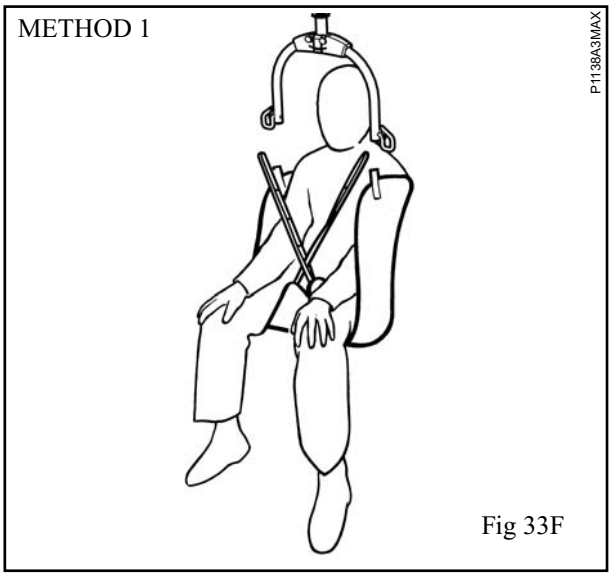
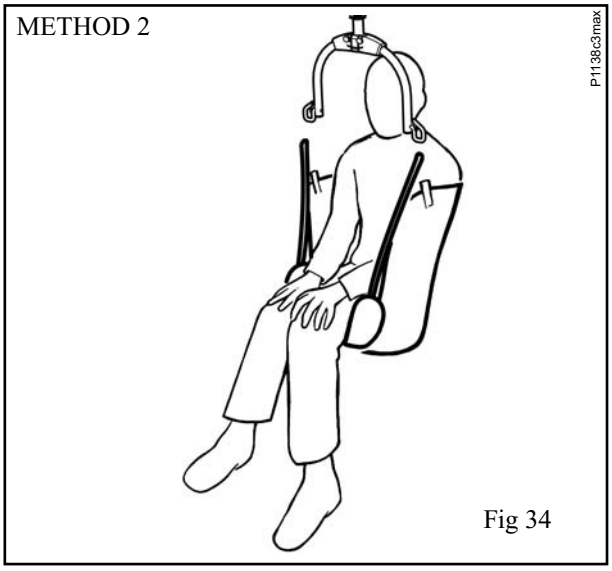


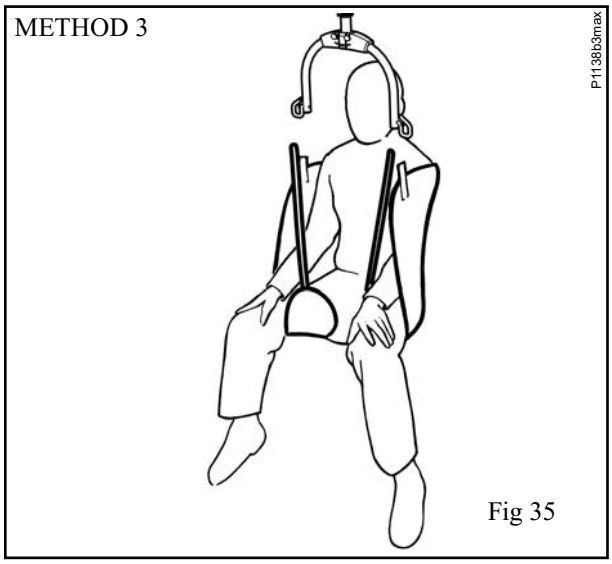
Fig 32



Method 2 - As method 1 above, but pass each tail portion of the sling under both thighs, and then out the other side before attaching points “B” to the outer hooks on the spreader bar (see fig. 34).



Method 3 - As method 1 above, but loop a tail portion 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 in abduction, and is useful for toiletting (see fig. 35).



Once the sling has been positioned and attached securely to the spreader bar then lifting can be carried out using the control handset. For general patient manoeuvring and transportation see also section “using DPS spreader bar”.

Warning: Always check that all the sling attachment loops are fully in position before and during the commencement of the lifting cycle, and in tension as the patient’s weight is gradually taken up.

When lowering the Lifter ensure that the patient’s or attendant’s legs and feet are well clear of the moving mast.

Apart from the methods listed above, the Loop spreader bar with loop slings is also extremely useful for lifting patients who have contracted legs, where the patient leg position prohibits the use of the DPS spreader bar. Attach the sling in the normal manner as described in “lifting from the bed”.

To lift from a bed

Place the sling under the patient as if it were a drawsheet. Flex the patient’s legs, and bring the sling leg pieces under the thighs, attach the sling to the spreader bar using any of the methods 1-3 above.

Warning: IMPORTANT: Check that all four points of the sling are securely connected before lifting.

To lift from the floor

(Some attendants prefer to use a larger sling for this operation.)

Raise and support the patient into a sitting, or half sitting position. Feed the sling down the patient's back, bring the leg pieces of the sling into position. Raise the patient's legs over the chassis, and bring the lifter into position as shown in figure 36. With the jib as low as possible, attach the shoulder loops. Bend up the patient's knees to connect up the leg pieces.

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

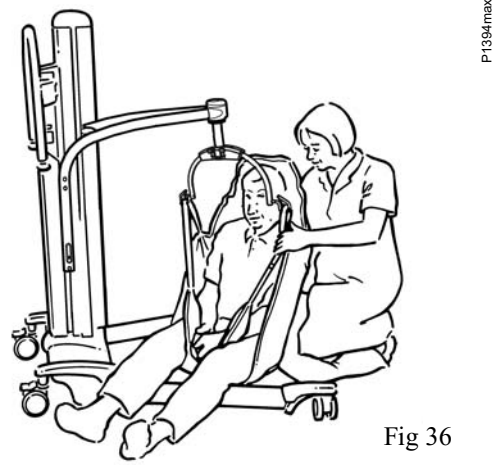


Fig 36

⚠ Warning: Check all the loops are securely attached before lifting.

When lifting or lowering a patient who is supported by a sling it is not necessary to use the brakes, this allows the Lifter to move to the correct position relative to the centre of gravity of the patient.

⚠ Warning: Apply the castor brakes to keep the Maxi Move in position on a sloping surface.

When the patient has been returned to the bed he/she may be reclined before the sling is detached.

⚠ Warning: When lowering the jib ensure that the patient's or attendant's legs and feet are well clear of the moving mast.

Folding stretcher frame

The folding stretcher frame has been designed to aid portability without removing the stretcher frame from the lifter. e.g. going through doorways.

To fold the stretcher frame, pull the plunger outwards and fold the stretcher frame through 90˚. Then rotate the stretcher frame until it contacts the mast/handles.

⚠ Warning: Do not operate the plunger while the stretcher frame is being used to transport a patient.

Using the soft stretcher

⚠ Warning: Before the stretcher can be used with Maxi Move ensure that the folding stretcher frame is securely connected before commencing any lifting procedure by checking the alignment of the markings on the spreader bar and the jib/carrier according to fig. 11B.**('Lock and Load' system jib only)**

Once fitted correctly, the stretcher frame should be able to rotate approximately 90˚ about its axis. Do not fit the stretcher frame in line with the jib.

The soft stretcher is intended for use with the stretcher frame and is available in two sizes, large and extra large. It is also supplied in both plain polyester or polyester mesh for washing use, both types are available with or without commode hole. To lift a patient using the stretcher frame and soft stretcher proceed as follows:-

Identify the head of the soft stretcher, a label sewn to the head end will confirm this.

⚠ Warning: Position the soft stretcher sling as shown in figure 37 by rolling the patient as if inserting a drawsheet. Ensure the top section of the sling (indicated by the label attached to the sling) is under the patient's head, with the top edge of the sling level with the top of the head. With the stretcher frame as high up as possible (but not to come into contact with the patient, should it swing accidentally), move the Lifter until the frame is directly over the patient, the frame is symmetrical and can be used either way round. (See fig. 38). Lower the stretcher frame carefully over, and just clear of the patient, aligning the centre of the frame approximately over the patient's navel. Connect all the sling loops securely (see fig. 39). Note: The attachment straps have several connection loops, choose whichever loop is considered the best to enable the patient to lie in the most comfortable position. (See fig. 40).

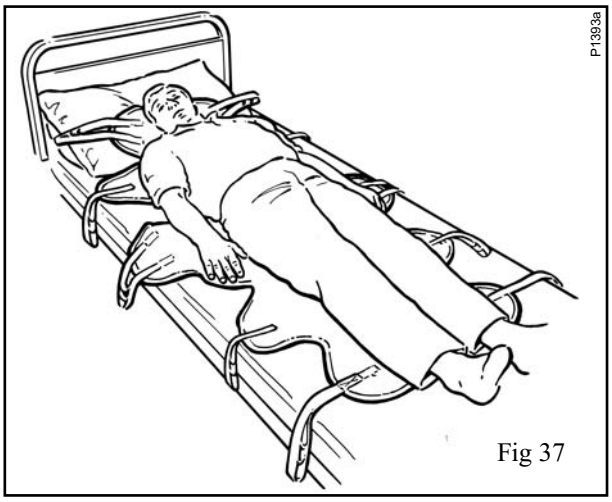


Fig 37

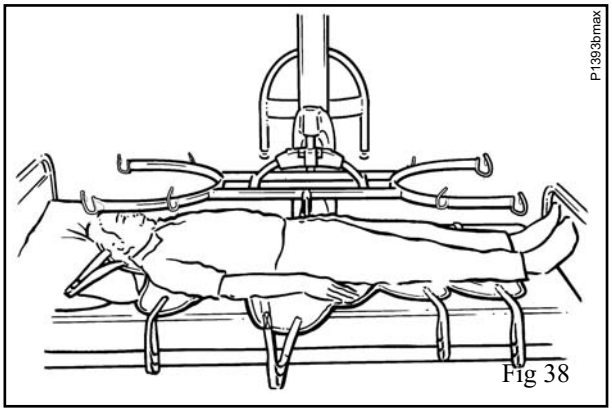


Fig 38

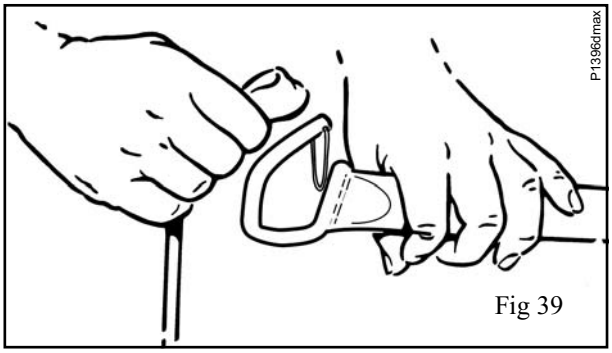


Fig 39

Warning: It is essential to keep the patient at approximately normal bed height to ensure stability of the unit and without losing patient/attendant contact.

When lowering the jib ensure that the patient's or attendant's legs and feet are well clear of the moving mast.

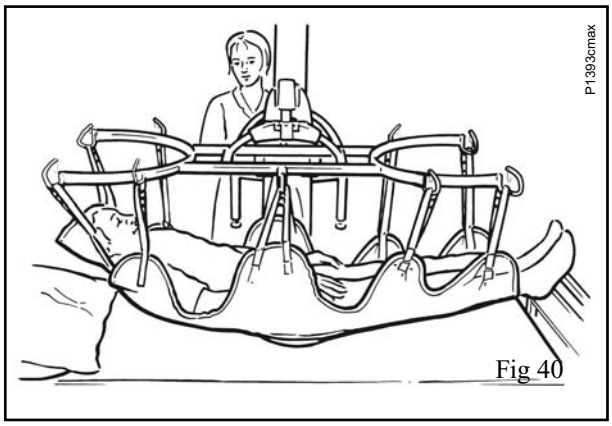


Fig 40

Raise and withdraw the patient away from the bed. If preferred, rotate the stretcher frame until the patient's feet are in proximity to the mast (see fig.41). In this position, the complete unit may be transported through wide doorways. Alternatively, leave the patient at 90º to the mast, in this way the Lifter and patient can be moved through the doorway sideways.

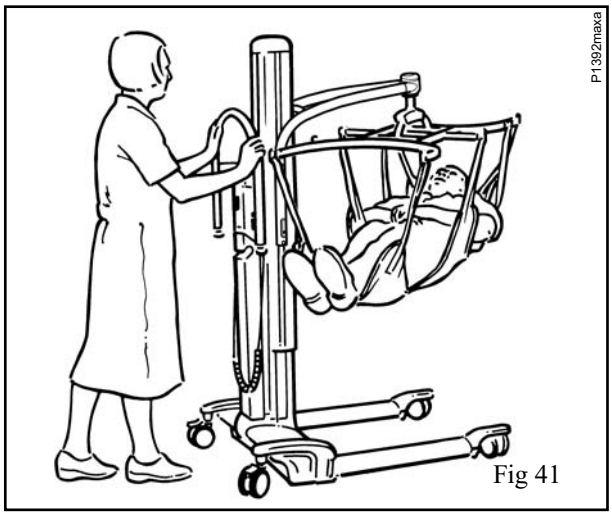


Fig 41

Warning: Only use soft stretchers that have every attachment strap coloured blue.

Note: The "head end" straps have a black tab stitched to them to enable correct usage with other ARJO stretcher frames.

Do not use any other type of soft stretcher sling with the ARJO Maxi Move.

The stretcher frame is classified by ARJO as a wet environment unit, and has a blue and white circular label to qualify this, attached, (See "Labels" section). This label signifies that the unit may be immersed in bath water. or used for showering.

Using the strap stretcher

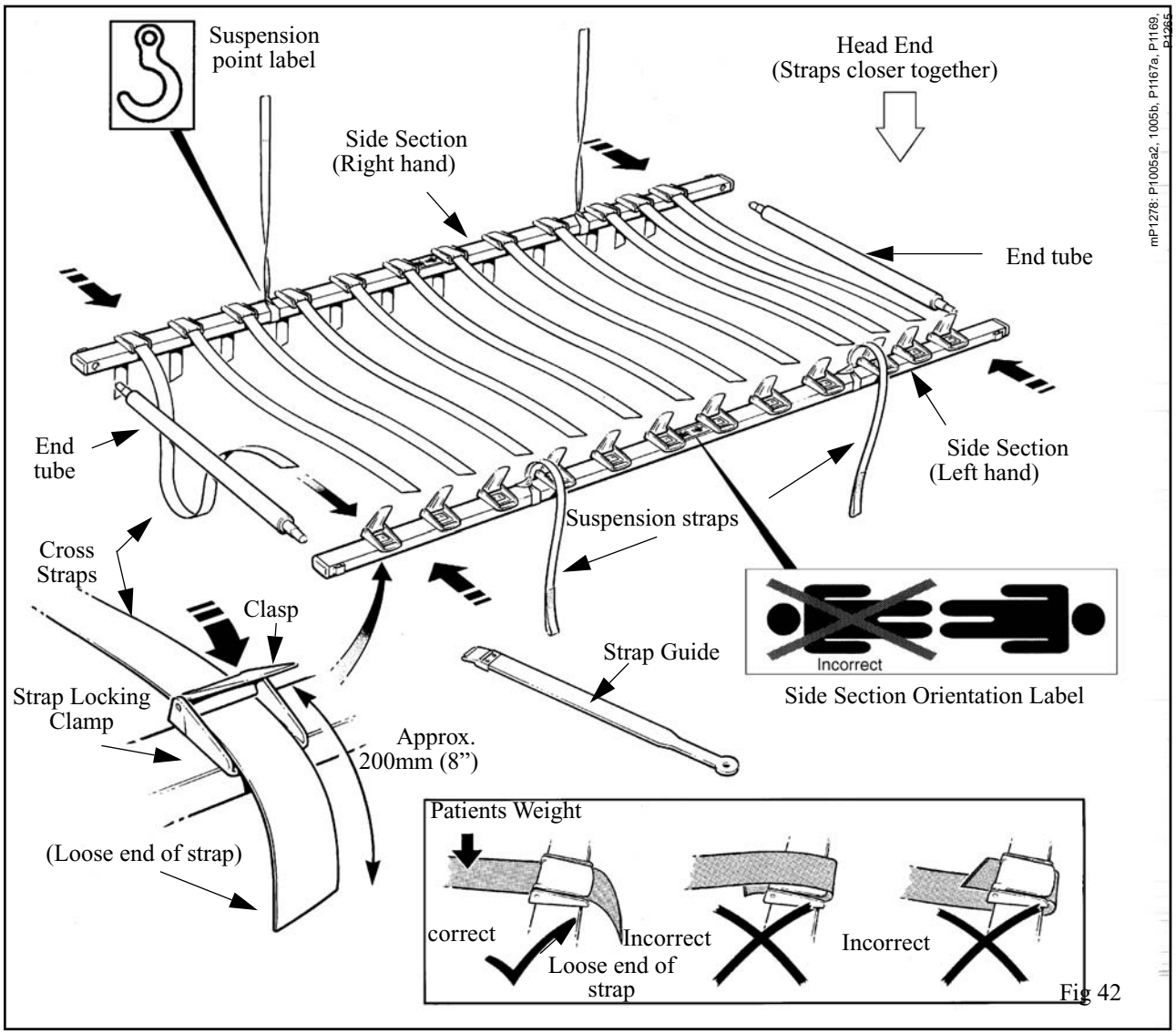


Fig 42

Warning: Before the stretcher can be used with Maxi Move ensure that the folding stretcher frame is securely connected before commencing any lifting procedure by checking the alignment of the markings on the spreader bar and the jib/carrier according to fig. 11B.**('Lock and Load' system jib only)**

Once fitted correctly, the stretcher frame should be able to rotate approximately 90˚ about its axis. Do not fit the stretcher frame in line with the jib.

Firstly attach the 12 cross straps to one of the side sections (see fig. 42), by pushing each strap through a locking clamp and locking by pressing the clasp fully down, initially leave approximately 200mm (8 inches) of strap outside the clamp (see inset to fig.42).

Warning: Note that the three closely positioned strap clamps go to the head end of the patient, (a label on each side section also indicates this).

Ensure the patient to be lifted is free of bed covers, place one end tube above the patient's head and one below the feet. Next, place the "unstrapped" side section to the side of the patient (clamps uppermost) (see fig. 43) and push each end tube through the corresponding holes in the side sections.

Hold the "strapped" side section with the longer length of the straps hanging towards the patient and place it on the bed beside the patient, with the longer length of the straps folded under the side section (see fig. 44). Connect the end tubes as before.

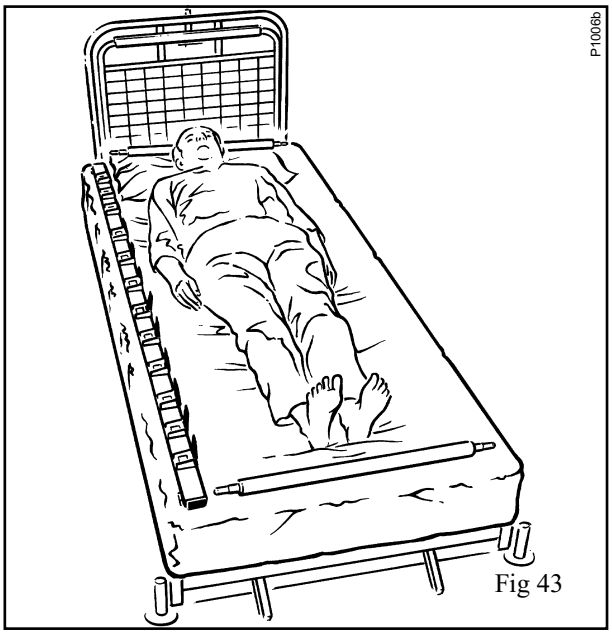


Fig 43

Slide any strap that can be easily done so, under the patient, perhaps by carefully lifting the patient's head and legs. For straps under the weight of the patient use the strap guide as follows.

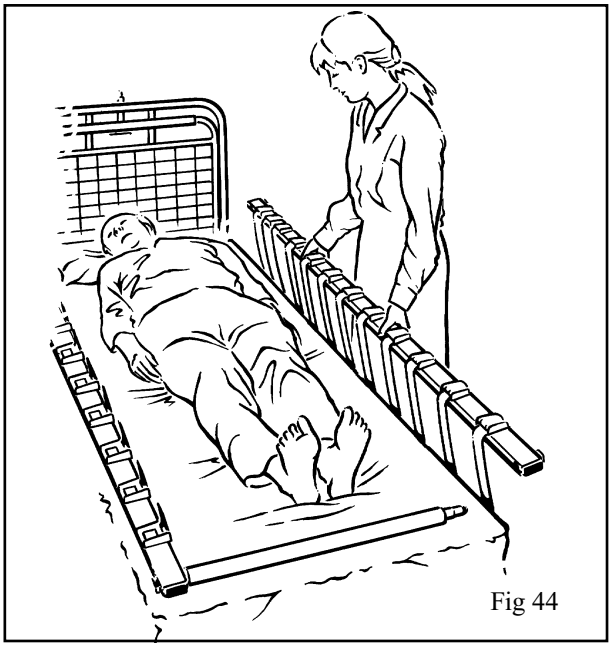


Fig 44

Thread the long section of the strap that is to go under the patient through the strap guide as shown inset in figure 45. Then gently push the strap and guide under the patient (see fig. 45) until the strap can be pulled clear and connected through the opposite strap clamp. Slide the guide back out from under the patient keeping the guide under the positioned strap.

- Note: If desired the straps may be passed under the pillow thereby leaving it under the patient's head for added comfort (see fig 46).

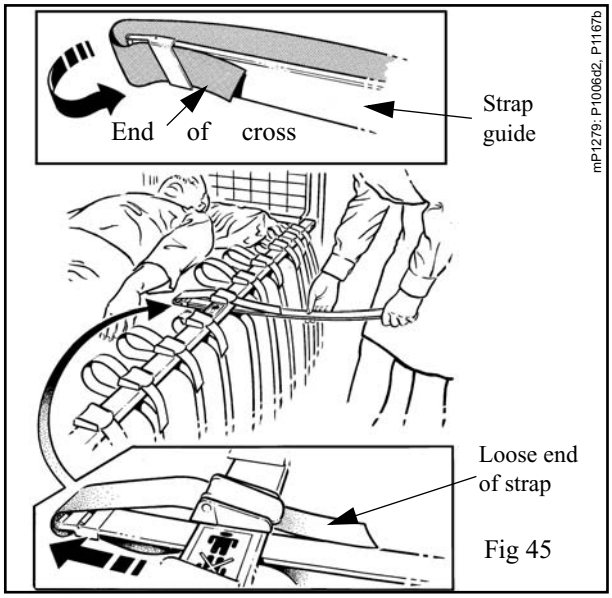


Fig 45

Warning: With obese patients especially, or under buttocks, care must be taken initially, not to trap any skin, as the strap guide is fed under the patient.

Continue until all the straps are under the patient and through the clamps, ensure each strap is pulled tight and locked into position by pressing each clasp fully down (see fig. 42 and 47).

All cross straps must enter directly into the clamps, and must not be passed around the side section (see fig. 42)

Check that both end tubes are fully located into each side section (with the correct matching arrow labels).

Warning: If not already attached, fix the four suspension straps in the positions indicated by labels on the side sections (see fig 48)

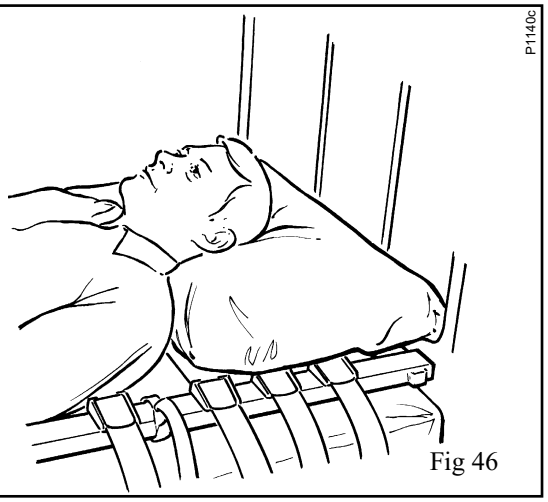


Fig 46

Warning: Before a patient is lifted, it is essential that all the cross straps are locked into the clamps and positioned correctly as shown in figure 42, and that all suspension straps are securely attached to the correct support hooks on the stretcher frame.

Bring the Lifter towards the bed and position the stretcher frame, centrally over the patient, so that the suspension straps can be securely attached over the hooks, indicated with a hook icon label, (see fig 49).

The strap or scoop stretcher should hang symmetrically from the stretcher frame.

IMPORTANT: Always check that all the stretcher suspension straps are fully in position before and during the commencement of the lifting cycle, and in tension as the patient's weight is gradually taken up.

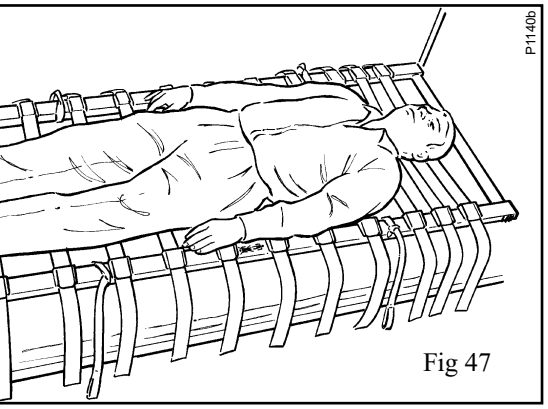


Fig 47

Once connected, operate the Lifter to lift the patient clear of the bed, then either, rotate the stretcher frame until the patient's feet are in proximity to the mast. In this position, the complete unit may be transported through wide doorways. Alternatively, leave the patient at 90º to the mast, in this way the Lifter and patient can be moved through the doorway sideways.

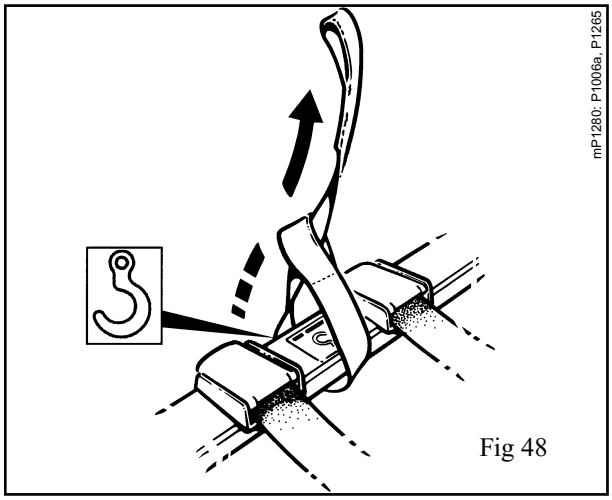
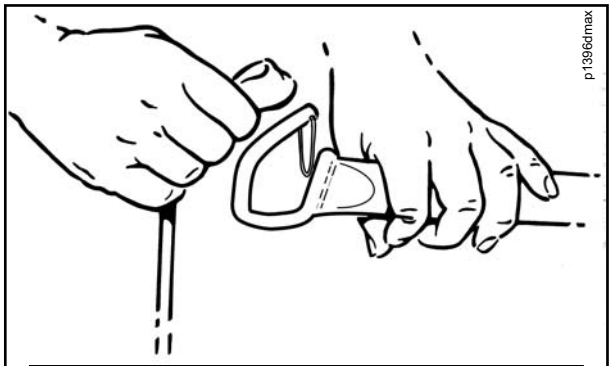


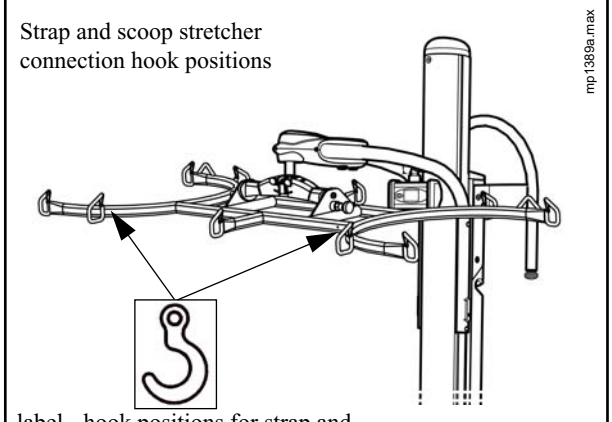
Fig 48

Warning: It is essential to keep the patient at approximately bed height, to ensure stability and without losing patient/attendant contact.

When lowering the jib ensure that the patient's or attendant's legs and feet are well clear of the moving mast.



Strap and scoop stretcher connection hook positions



label - hook positions for strap and scoop stretcher attachment straps

Fig 49

- Note: Individual patient support straps can be slackened and removed if access is required to any part of the patient needing attention.

Warning: Do not remove too many straps at one time to ensure the patient is securely supported.

When the patient is returned and lowered on to the bed, the strap stretcher may be removed, once disconnected from the stretcher frame, by slackening all the clamps on one side section and gently pulling each strap through under the patient. Disconnect and remove the frame, store carefully for future use.

Patient scale (if fitted)

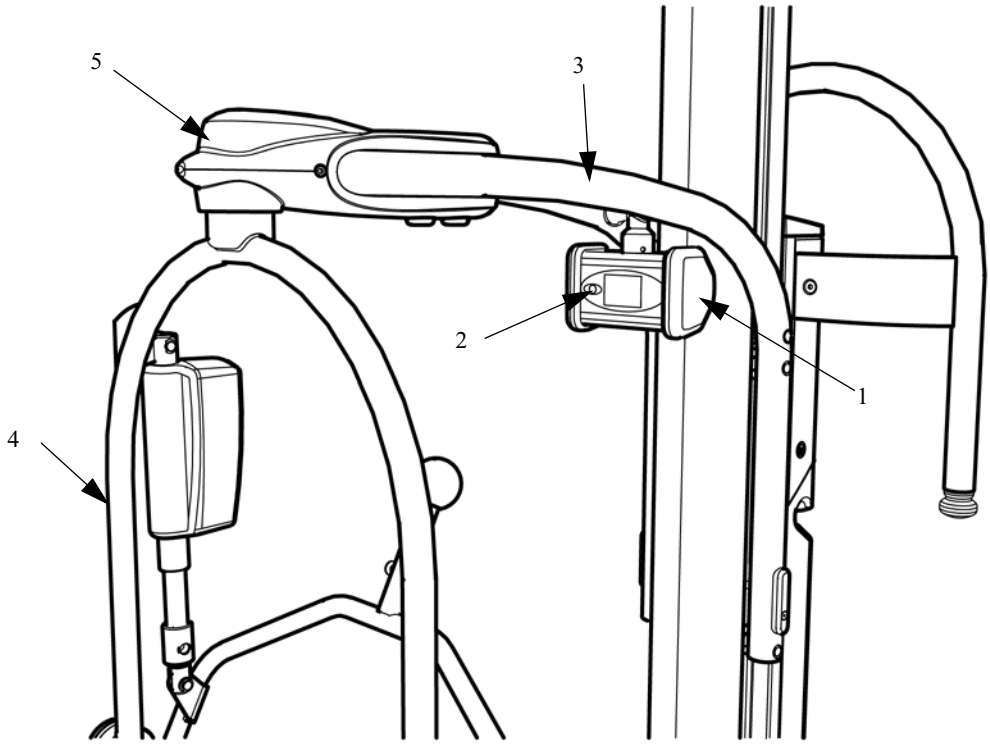


Fig 50

Key

1. Scale display unit
2. Operating button and visual display
3. Jib
4. Spreader bar
5. Load cell cover

Patient scale

If your Maxi Move has been fitted with the ARJO Scale, this gives your lifter the added advantage of being able to weigh patients as they are lifted.

Warning: The scale has been designed to weigh hospital or care facility patients under the supervision of trained nursing staff. All other uses must be avoided.

Verification labels/seals E.C. Units only

After verification, the following marks will be found on the scale unit :-

- CE mark (signifying compliance with Council Directive 93/42/EEC for medical devices and Council Directive 90/384/EEC for non-automatic weighing instruments, followed by the two digits of the year in which it was affixed.
- The identification number of the notified body that has carried out the EC surveillance.
- A green sticker bearing a capital letter 'M' in black signifying that the scale is suitable for an approved application in accordance with Council Directive 90/384/EEC.
- The number of the EC type approval certificate.
- The accuracy class.
- The maximum capacity.
- The minimum capacity
- Verification scale interval.
- A seal bearing the identification and number of the verification body.

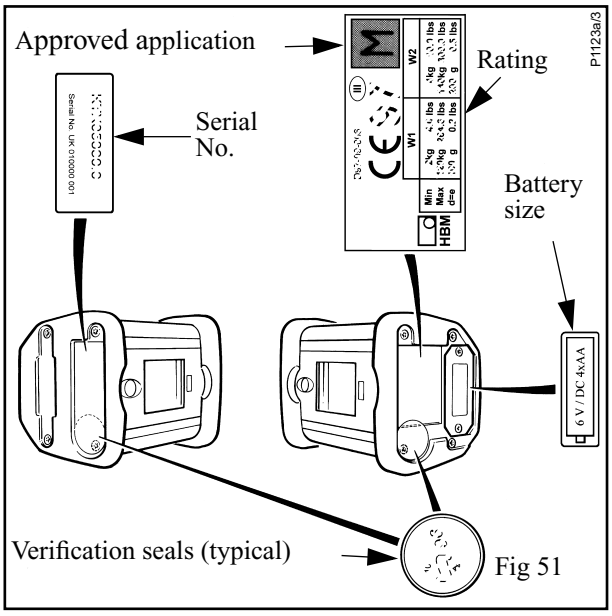


Fig 51

Re-verification

- Note: re-verification of approved weigh scales must be carried out in accordance with local authority rules (as specified by each country).

  If the seals are broken (e.g. during repair or replacement of the scale unit) then the scale must be disqualified and not used again until re-verification has been carried out.

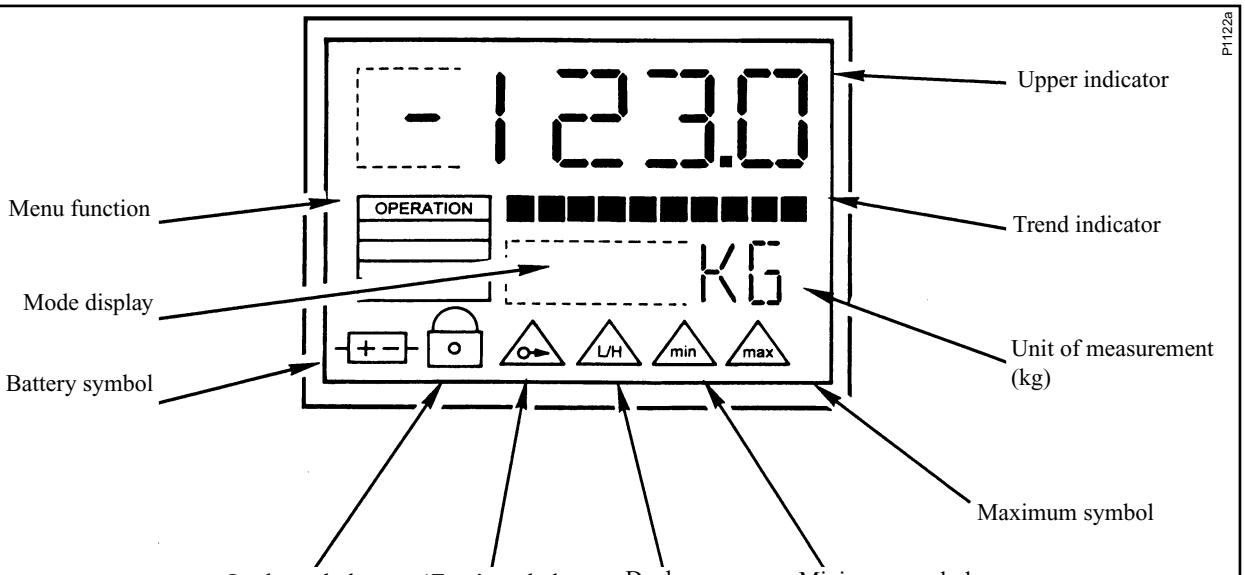


Fig 52

Display symbols/functions

The scale has an LCD which displays various numbers and symbols which are described in fig. 3.

Upper indicator

Shows weight in kilograms.

(-) shows, when weight is negative. (See section Weighing with the Patient already suspended in the sling.

Menu Functions

Shows "Operation" function.

Other functions are only available when calibrating.

Mode Display

B/G - Gross Weight

NET - Net Weight

Battery symbol

If on - battery power is low. (Approximately 1 hour of operation left).

All digits flashing - batteries are exhausted.

Lock symbol

Input password. (Only available for special and configuration functions. Contact ARJO Service Department if a password is required).

'Zero' symbol

Displayed when the Scale is in zero range, ± 25g .

Dual range symbol (example)

L = Low: 2kg-120kg

H = High: 4kg-228kg (4-130 KG on Extended Jib)

The symbol is displayed for weights over 120kgs.

Min symbol

Displayed when the load is below 2kg.

Max symbol

Displayed when the load is above 228kg. If the Scale is overloaded, remove the load immediately. Do not move the Scale/lifter until the symbol is switched off.
Note: If an extended jib is fitted this symbol will be displayed when the load is above 130kg.

Trend indicator

Visual weighing range indicator. Blocks are displayed which increase from left to right as loading increases.

Unit of measurement

The unit of measurement is in Kilograms for Europe
For non European machines The unit of measurement, in either 'kg' or 'lbs' will be preset before delivery. If, for any reason you need to change from 'kg' to 'lbs', press the operating button for a minimum of 10 seconds.

There are two methods to weigh the patient:-

Method 'A' - Weighing before the patient is suspended in the sling.

Press the scale operating button (see fig. 53).

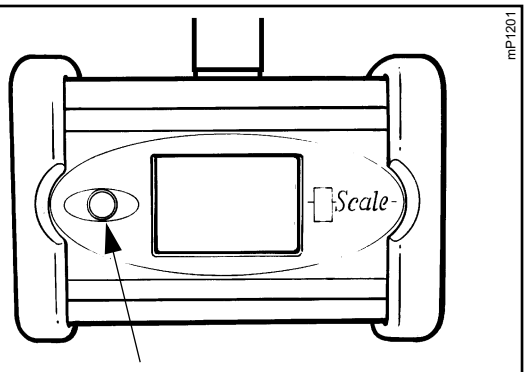


Fig 53

- Note: With agitated patients, the attendant should wait until the patient is calm before attempting to weigh.

A display test is performed, all segments of the display are shown for approximately one second.

The display will show 'WAIT' and after some seconds will display the mode that the scale is in.

Hang the sling to be used over the spreader bar, (not the jib), and press the operating button again.

The scale will display 'NET 0.0' (see fig. 54).

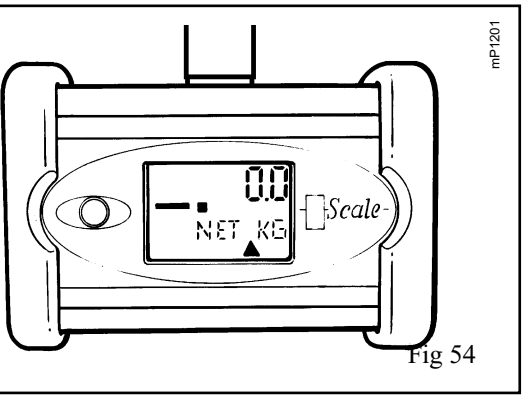


Fig 54

Remove the sling and position it around the patient, as in normal lifting procedure.

Lift the patient until clear of any obstructions e.g. bed, chair, floor etc.

Ensure the patient's feet do not contact the jib.

Do not press the button again - the number displayed will be the weight of the patient.

- Note: For European scales only. If the word TILT appears on the display, move the Maxi Move to a position where the floor surface is on a level acceptable for the scale to operate correctly.

IMPORTANT: Do not touch or lean on the patient, jib or spreader bar during the weighing operation. Ensure that no part of the patient touches the mast or jib during weighing, as the jib and spreader bar are integral parts of the weighing equipment.

- Note: The scale, once switched on will operate for 6 minutes. After this time, the scale will automatically switch off. Should this happen, press the button again.

! Caution: Do not overload the scale. If the scale unit displays 'MAX', lower the patient immediately onto a bed/chair.

For convenience, the scale display unit can rotate through 240°, enabling its' use from both sides and front of the lifter.

- Note: The scale can be 're-netted' during operation.

! Caution: Do NOT hold the scale display unit or the mounting tube to assist in manoeuvring the lifter.

Method 'B'- Weighing with the patient already suspended in the sling

Ensure the patient is suspended free and clear of any obstructions, e.g. bed, chair, floor etc.

Press the scale operating button (see fig. 53).

- Note: With agitated patients, the attendant should wait until the patient is calm before attempting to weigh.

A display test will be performed, all display segments are shown for approximately one second.

The display will show 'WAIT' and after some seconds will display the mode that the scale is in.

Ignore the weight displayed, and press the operating button again.

The scale will display "NET 0.0" (see fig. 54).

!	Caution: Do not overload the scale. If the scale displays 'MAX', lower the patient immediately onto a bed/chair

Lower the patient to a suitable position and remove the sling.

Hang the sling over the spreader bar only (not the jib).

The weight is displayed, and, although having a minus (-) sign in front of it, is the weight of the patient.

Remove the sling.

•	Note: If the word TILT appears on the display, move the Maxi Move to a position where the floor surface is on a level acceptable for the scale to operate correctly.

IMPORTANT: Do not touch or lean on the patient, jib or spreader bar during weighing. Ensure that no part of the patient, sling or spreader bar touches the mast or jib during weighing, as the jib or spreader bar are integral parts of the weighing equipment.

•	Note: The scale, once switched on will operate for 6 minutes. After this time, the scale will automatically switch off. Should this happen, press the button again.

For convenience, the scale display unit can rotate through 240°, enabling its' use from both sides and front of the lifter.

•	Note: The scale can be re-netted during operation.

!	Caution: Do NOT hold the scale display unit or the mounting tube to assist in manoeuvring the lifter.

Scale battery installation/change

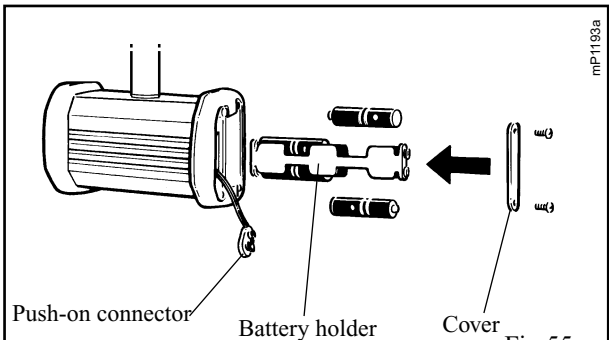


Fig 55

If the battery symbol is displayed on the scale LCD, there is enough power left for approximately 1 hour of operation.

To change the batteries:-

Open the battery compartment cover, by firstly removing the two screws using a small bladed screwdriver. Remove the cover.

Pull out the battery holder carefully.

Disconnect the push-on connector from the end of the battery holder if necessary.

Remove the existing batteries from the battery holder and replace using four "AA" size batteries or equivalent, ensuring correct polarity (shown on the holder).

Replace the battery holder and refit the battery compartment cover and tighten the screws.

•	Note: If the batteries are inserted incorrectly, this will not damage the circuit board.

Rechargeable batteries may be used, however, the operating time of the scale between charges will be shorter than if non re-chargeable batteries are used

Care of your scale

The scale is adapted to the same conditions as the Maxi Move. For cleaning instructions see 'Care of your Maxi Move' section in the main operating instructions issued for your lifter.

Apart from cleaning and battery changing, no other special maintenance should be required.

Lifter Battery Charging

The Maxi Move incorporates a battery discharge indicator, situated on the rear side of the controls console (see Fig. 1). There are two types of battery indicator

(a) a single red lamp (see fig. 56), the lamp will flash to indicate that the battery requires regharging immediately, the light will be accompanied by a warning 'Beep' .

(b) BDI, a ten bar LED display indicating levels of battery charge state (see fig. 56), ranging from fully charged on the right, to very low on the left (green, through amber to red)

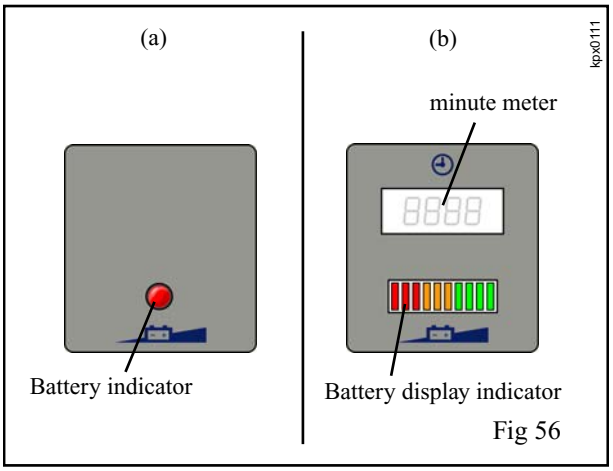


Fig 56

It is recommended that the battery is removed from the lifter and recharged when the display reaches the amber range, lifting is possible until the display shows a red bar, at this point, the battery must be recharged as soon as possible.

- Note: When a red bar is displayed it is still possible to lower, but not lift, the patient.

Recharging the battery pack before it reaches a low state of battery charge or certainly totally discharged will prolong its life.

Your lifter is fitted with an audible warning device, this will sound when the battery charge state is very low, the LED indicator will display a flashing red light. The audible warning will sound for approximately thirty seconds and will start when a function button is pressed. Pressing the emergency stop button will temporarily silence this function, removing and replacing the battery with one fully charged will silence the alarm until low battery condition re-activates it.

Danger: The charger is for indoor use only.

Only use the charger unit in a dry environment, do not use it in the bathroom.

Do not expose the charger unit or battery pack to rain or spray and do not immerse in water.

Only use the ARJO battery that is supplied to be used with the Maxi Move.

The battery charger is for use only with ARJO supplied batteries that are to be used with the Maxi Move.

The battery charger is for use with sealed lead acid batteries only.

Under no circumstances should the charger be used to attempt to recharge non-rechargable batteries.

Do not attempt to open or tamper with the charger unit in any way, for any repair the charger must be sent to the manufacturer.

The mains electricity socket must be easily accessible. should a faulty condition occur switch off and remove the connection plug from the socket.

Only use ARJO components that have been specifically designed for the purpose when charging batteries.

Warning: To avoid overheating, the charger must not be covered whilst in use.

No smoking or naked flames in battery vicinity.

Do not expose the charger unit to dust.

Do **NOT** charge batteries in a sealed container.

Do **NOT** place batteries near, or dispose of, in a fire.

Do **NOT** short circuit a battery.

Lifter Battery Charging

Warning: Do **NOT** store batteries at temperatures in excess of 60˚C (140˚F).

Do **NOT** crush, puncture, open, dismantle or otherwise mechanically interfere with batteries.

Should the battery casing become cracked, and electrolyte come into contact with skin or clothing, wash immediately with water.

If the electrolyte contacts the eyes, wash immediately with copious amounts of water, and seek medical attention.

When disposing of batteries, contact the appropriate local authority for advice.

The abbreviation “Pb” shown adjacent to the recycling and trash bin symbols on the battery pack label is the element symbol for lead, and indicates that the battery contains lead and therefore should not be disposed of in the normal manner but must be recycled.

For more details of caring for your lifter battery refer to the ‘Battery Care’ literature, ARJO Part No. KDX01660.GB.

To ensure the Maxi Move is always ready for use, it is recommended that a freshly charged battery pack is always available. This is achieved by having additional battery packs available and keeping one on charge while the other is in use.

It may be considered good protocol to have a freshly charged battery ready for the start of every work shift.

Place the battery pack on charge as follows:

Caution: Ensure the mains power to the charger unit is switched off before connecting the battery.

Warning: Always ensure the cable connection plugs that fit into the charger and into the battery are fully inserted before switching on mains electricity.

When the LED on the battery discharge indicator displays amber or the light flashes, complete your lift cycle then take the lifter to a convenient situation and remove the battery pack by holding the grip position of the battery and pressing the release catch situated above, pivot the battery away and lift clear. Take the battery to the battery charger unit and ensure the battery is positioned securely then insert the battery connector from the charger into the corresponding connector in the back of the battery (see fig. 57), switch on mains power. An orange light will be displayed on the charger unit when the battery is totally discharged. This will change to a yellow light as the battery approaches full charge capacity, finally changing to a green light when the battery is fully charged.

A discharged battery should be left approximately 8 hours to totally recharge (See also ARJO Battery Care document).

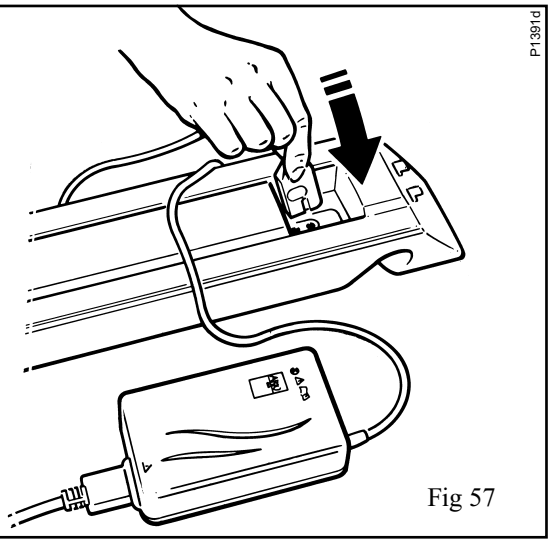


Fig 57

- Note: The cable that connects the main electricity supply to the charger is supplied as a detachable item. If using the battery charger for the first time or if the cable has been unplugged from the charger, connect the cable fully into the charger before connecting to the mains electrical supply.

Warning: Hold the pack firmly to ensure it does not drop and become damaged, or cause personal injury.

- Note: The battery pack may be left connected to the charger unit when it is fully charged without being damaged by overcharging, this will also ensure the battery is kept fully charged.

Caution: Always disconnect the mains supply before disconnecting the battery charger unit.

When the battery pack is fully charged, disconnect the mains power, remove the battery pack from the charger, and insert it back into the Maxi Move battery position.

Ensure the green reset button (situated on the rear of the mast) is pressed in (see fig. 1).

The Maxi Move is now ready for use.

Care of your Maxi Move

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.

Sling care and cleaning:-

Warning: The slings should be checked before and after use with each patient and if necessary washed according to instructions on the sling, This is especially important when using the same equipment for another patient, to minimise the risk of cross infection. Also refer to sling instruction sheet MAX.01510.INT.

With regard to laundering, slings should not be classified as linen, but as an accessory to a patient transfer lifter and therefore classified as a medical device. Slings should be cleaned and disinfected only in strict accordance with the manufacturers instructions.

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.

The strap stretcher cross straps and suspension straps should be checked and if necessary washed. Washing and drying temperatures must not exceed 80˚C (176˚F). Wash using normal detergents, do not iron. Also refer to Sling Instruction sheet MAX.01510.INT.

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 the clips damaged, the sling or attachment cord should be withdrawn from use immediately and replaced.

Lifter care and cleaning:-

Warning: It is recommended that patient lifters, equipment, accessories are regularly cleaned and/or disinfected between each patient use if necessary, or daily as a minimum. If the lifter and/or equipment needs cleaning, or is suspected of being contaminated, follow the cleaning and/or disinfection procedures recommended below, before re-using the equipment.

For cleaning your lifter, equipment and accessories wipe down with a damp cloth using warm water to which a disinfectant/ cleaner has been added e.g. “ARJO CLEAN” - disinfectant/cleaner or equivalent

- Note: “ARJO CLEAN” - disinfectant cleaner is available from ARJO Ltd. or their approved distributors.

Caution: Do not over wet areas of the product which could cause problems with electrical components or internal corrosion.

If a hot air dryer is used to dry the lifter, the temperature must not exceed 80°C (176°F)

Do not use petroleum based solvents or similar, since this may damage plastic parts.

Warning: For disinfection of contaminated lifters, 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: A rubbing action will be necessary when using the wipes to promote effective disinfection of the surfaces.

Warning: IMPORTANT: Cleaning and disinfection products must be used in accordance with the manufacturers instructions and suitable eye, hand and clothing protection must be worn at all times when handling disinfectants.

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

The following checks should be carried out daily.

Ensure that the battery pack is always in a good state of charge.

Warning: Ensure that the castors are firmly secured to the chassis.

Carefully inspect all parts, in particular where there is personal contact with the patient's body, ensure that no cracks or sharp edges have developed which could injure the patient's skin or become unhygienic.

Check that all external fittings are secure and that all screws and nuts are tight.

Ensure that all instruction labels are firmly attached and in good readable condition.

Check that the bushings in the guiding holes in the carrier/ T-bar are in place and undamaged. ('Lock and Load' system only).

Periodic testing

To be carried out at weekly intervals.

Periodic testing of the operational functions is advisable from time to time to ensure everything operates satisfactorily.

Test for full and efficient movement of the lift / lower mechanism:- Raise and lower the jib using the control handset, test also with dual switch panel.

Automatic Stop Function:- With the jib well above its lowest position and the lifter positioned over an empty bed, use the handset control to lower the jib onto the bed. As the jib lowering is restricted, the motor will stop, release the control handset lower button after a second or two. Raise the jib using the control handset, then repeat the test using the dual switch panel, this check is for the correct functioning of the automatic stop.

Emergency Stop:- Test the emergency stop facility by operating the control handset to lift or lower the jib, and whilst operating, press in the emergency stop button (see fig. 5). Powered movement should stop immediately.

Reset to normal function by pressing the green reset button (see fig. 5). Repeat this test using the dual switch panel, reset to normal function. Repeat for chassis legs opening / closing function, and reset the button.

System Failure Lower Override:- Test this function simply by ensuring the jib is well above its lowest position then operate the system failure lower override switch (see fig. 5). The jib will lower without the need to operate the control handset or dual control panel. The lower override facility will still operate even with the handset control cable unplugged.

Adjustable Width Chassis Function:- Open and close the chassis legs using the control handset and dual switch panel, to check for full and efficient movement.

General lifter Condition:- A general visual inspection of all external parts should be carried out, and all functions should be tested for correct operation, to ensure that no adverse damage has occurred during use.

Warning: If in any doubt about the correct functioning of the Maxi Move, withdraw it from use and contact ARJO Service Department.

Servicing advice

Warning: ARJO recommend that the Maxi Move is maintained at regular intervals, see ARJO Maxi Move Preventive maintenance schedule (ARJO Literature No.04.KM.01)

With regular use the following items are subject to wear:- slings, batteries, straps, castors. These items must be regularly checked as described previously, and replaced as necessary.

Warning: UK LIFTERS ONLY: Important legislation came into force on 5th December 1998, which has an impact on the schedule of service for your patient lifter(s), variable height baths and other raising and lowering equipment. The Lifting Operations and Lifting Equipment Regulations (LOLER) 1998 and The Provision and Use of Work Equipment Regulations (PUWER 98) must be satisfied by the duty holder. A scheme of six monthly thorough examinations has been devised to comply with the law and details can be obtained from ARJO Service UK

Parts list and circuit diagrams are available from ARJO or their approved distributors on request.

Special tools are required for certain component replacement.

- Note: The simplest, safest and most effective way to maintain your product in good working order, is to have it methodically and professionally serviced by an ARJO approved engineer using ARJO approved spare parts.
  For information on service and maintenance contracts, please contact your local ARJO distributor.

Labels

Key to Labels:

1. Attention: Read operating instructions before use
2. CE marking indicating product is safe and fit for purpose
3. Emergency Stop Button identification
4. Reset Button identification
5. Minute Meter/Battery Discharge Indicator
6. System Failure Lower Override Control identification.
7. Safe Working Load & Sling Size Guide
8. Battery Instruction/Recycling Information
9. Data label
10. ETL-approval label
    Classified by Intertec Semko with respect to electrical shock,fire and mechanical hazards and other specified hazards only in accordance with
    UL2601-1 CAN/CSA- C22.2No.601.1-M90
11. Identification label (see elucidation beside)
12. Stretcher Attachment Point (4 point attachment stretchers only)
13. ARJO Wet Environment Product identification
14. Product label-MAXI MOVE

Example of identification label (11)

On the data label (9) you will find the following information:

- Maximum lifting capacity, 228 kg (500 lb).
- Stroke 1330 mm (52 3/8")
- Supply voltage 24V DC
- Engine power 300VA
- Protection class IP X4
- Type B.

  Applied part: protection against electric shock in accordance with IEC 601-1.
- Mode of operation, ED max 15%
- CE marking
- Total weight of the product (incl. patient)
- Product no. of the battery
- Read the operation manual before use

Labels

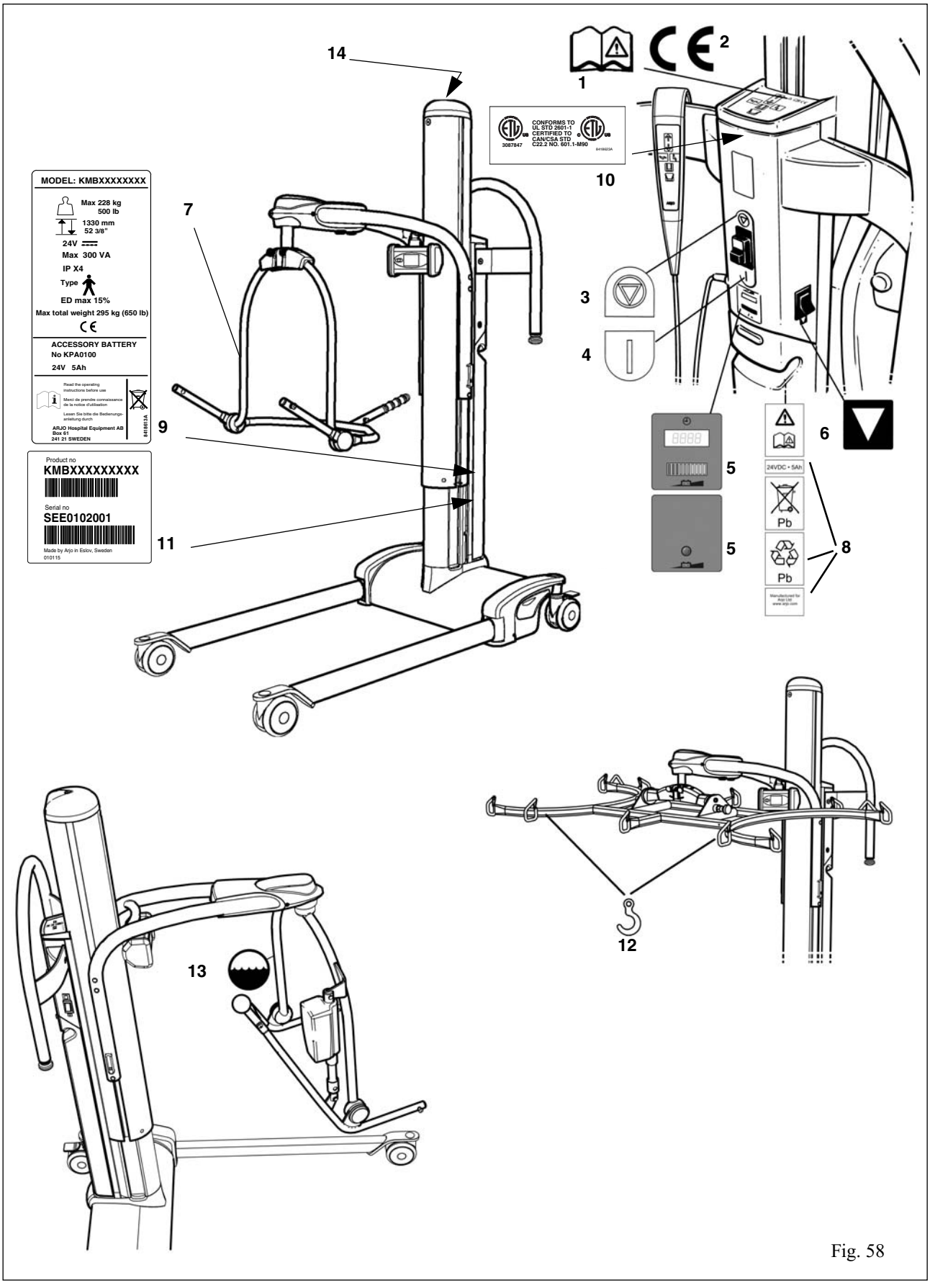


Fig. 58

Technical Specification

Component weights

	kg	lbs
Maxi Move Lifter +standard jib + spreader bar +battery	64 kg	(140)
Maxi Move Lifter + scale jib + spreader bar + battery	67 kg	(147.5)
DPS spreader bar 'Lock and Load' system	6.0	(13.2)
Stretcher frame	7.0	(15.4)
Scoop stretcher	9.7	(21.3)
Strap stretcher	13.6	(29.9)
Battery pack	4.9	(10.8)

Electrical

Battery type and part number	(Rechargable - lead acid) KPA0100
Battery capacity	5Ah
Battery charger part number	KPA0101-XX (Note: XX indicates relevant country code)
Lifter protection class	IPX 4
Handset protection class	IPX 7
Lifter nominal voltage	24V DC

Medical Equipment:- type **B** protection against electrical shock in accordance with IEC(EN) 60601-1

ARJO patient handling products meet the requirements of Electromagnetic Compatibility (EMC) as stated in clause 12.5 of the Medical Devices Directive 93/42/EEC

Although compliant with EMC requirements there is a remote chance that close proximity usage may affect over-sensitive electrical equipment.

Conforms to UL 2601-1 and CAN/ CSA C22.2 No 601.1-M90

	Duty cycle
Mast Lift Actuator	15% (9 min/hr)
V' Chassis Actuator	10% (6 min/hr)
Powered DPS option	5% (3 min/hr)

Environment

Air humidity/storage	80% @ 20°C (68°F)
Usage temperature range (ambient)	+5˚C (41˚F) to +35˚C (95˚F)
Optimum usage temperature (ambient)	+20˚C (68˚F) to +25˚C (77˚F)
Storage and transportation temperature (ambient)	-10ºC (14ºF) to +45ºC (113ºF)

Scale

Power supply	6V DC (4 x AA Batteries)
Battery life	120 hours
Degree of Protection	IP 53
Accuracy (verified class III scale) 2-50kg	±50g
Accuracy (verified class III scale) 50-120kg	±100g
Accuracy (verified class III scale) 120-228kg	±200g

Technical Specification

Maximum capacities of Maxi Move

The Maxi Move should not be loaded with a weight in excess of the lowest rated attachment fitted (see table below for lifter and attachments maximum lifting capacities).

Peadiatric slings (XXS - S)	-	125kg(275lbs)
Standard slings (M - XXL)	-	228kg (500lbs)
Lifter + Standard jib + DPS spreader bar	-	228kg (500lbs)
Lifter + Stretcher Frame	-	160kg (350lbs)
Lifter + Extended jib with any attachment	-	130kg (286lbs)

The capacities given are correct for the lifter configurations listed, but some accessories/additional/optional sub assemblies may reduce the maximum capacity. Always refer to the maximum weight limit printed on the label fixed to the lowest rated fitted attachment. The use of 'low-height' castors does not affect the lifting capacities.

Lifter dimensions

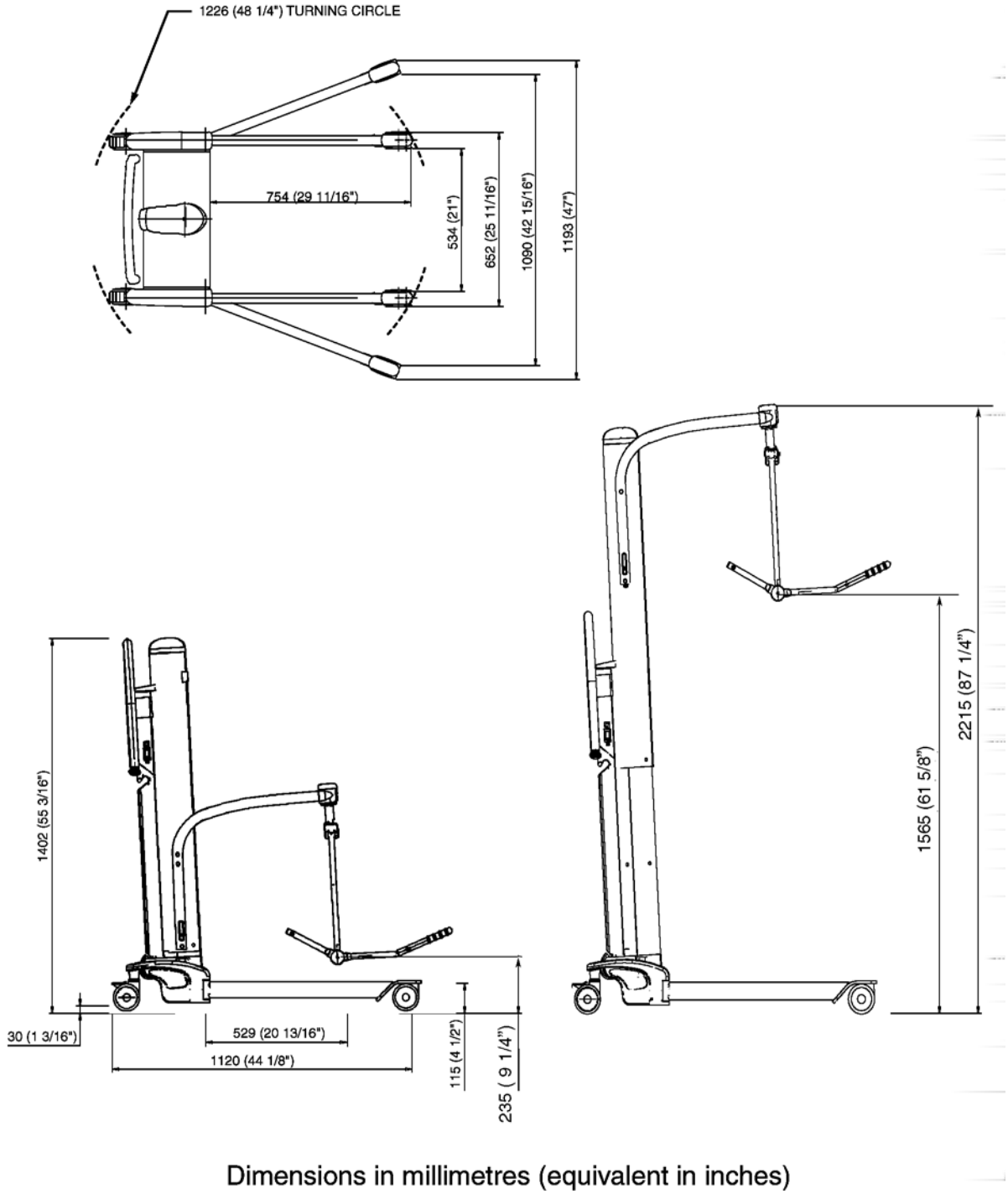


Fig. 59

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ISO 14001 BUREAU VERITAS Certification

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