

# ARJO

## MAXI MOVE™

Operating and Product Care Instructions



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May 2008



CE

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# General Information

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## 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 in 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 for loop spreader bars. The same methods and techniques described for the standard DPS can also be applied to the optional, powered DPS.

## Definitions Used in this Manual:

### **WARNING:**

Means: Failure to understand and follow these instructions may result in injury to yourself and others.

### **CAUTION:**

Means: Failure to follow these instructions may cause damage to the product(s).

### **NOTE:**

Means: This is important information regarding the correct use of the equipment.

## Manufacturer Information

This product has been manufactured by:  
BHM Medical Inc.  
2001 Tanguay Street  
Magog (Quebec)  
Canada J1X 5Y5

## Authorized European Representative

Huntleigh Healthcare Ltd.  
310-312 Dallow Road  
Luton, UK  
LU1 1TD

## Intended Use

**WARNING: To avoid injuries that can be attributed to the use of inadequate parts, ARJO strongly advises and warns that only ARJO designated parts should be used on equipment and other appliances supplied by ARJO. Unauthorized modifications on any ARJO equipment may affect 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.**

Maxi Move is a mobile, passive lift with removable spreader bar.

Maxi Move is intended to be used in hospitals, nursing homes or other health care facilities where the patient:

- 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 where the patient:

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

Maxi Move must 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 slings and stretchers supplied by ARJO that are designed to be used with your 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.

# General Information

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## Operational Life

The expected operational life of your ARJO lift is ten years from the date of manufacture, providing the following conditions are adhered to:

- The expected operational life for fabric slings and fabric stretchers is approximately two 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 life 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”.

## Policy on Number of Staff Members Required for Patient Transfer

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

# Safety Instructions

## Symbols Used

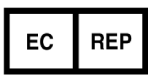











Symbol	Key to symbol
	This symbol is accompanied by the name and the address of the authorized representative in the European Community.
	This symbol is accompanied by a date (to indicate the date of manufacture) and by the address of the manufacturer.
	This symbol indicates that the products comply with medical device directive 93/42/EEC.
	This symbol is accompanied by the manufacturer's catalogue number.
	This symbol is accompanied by the manufacturer's serial number.
	This symbol indicates "separate collection" for all batteries and accumulators as per the WEEE Directive.
	These symbols refer to the Operating and Product Care Instructions.
	This symbol indicates a class II electrical equipment: term referring to electrical equipment in which protection against electric shock does not rely on basic insulation only.
	This symbol indicates a type B applied part.
	This symbol indicates a risk of pinching.
	This symbol represents a weight scale.
	This symbol indicates that the scale is a non-automatic instrument; medium accuracy class.

Fig. 1

# Safety Instructions

Before using your Maxi Move, familiarize yourself with the various parts and controls as illustrated in Fig. 3, and other illustrations. Then, 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 you find is confusing or difficult to understand, please contact your local ARJO representative (the telephone number appears on the last page of this manual).

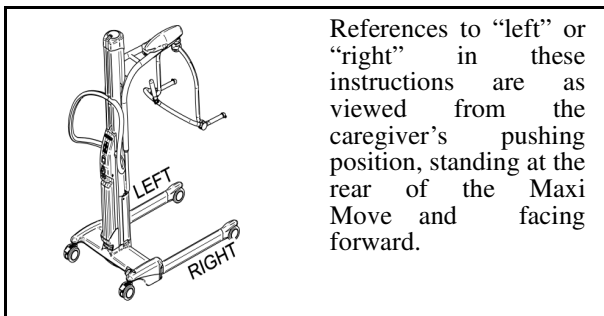


Fig. 2

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

**CAUTION: Some of these parts are critical to ensure the safe operation of the lift. They will need examining and servicing on a regular basis and must be replaced as needed.**

See also “Care of Your Maxi Move” section.

**CAUTION: 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 patient’s condition and suitability to be lifted should be carried out by a qualified professional.**

**WARNING: Patients with spasms can be lifted, but great care should be taken to support the patient’s legs.**

**WARNING: Do not overload the Maxi Move beyond the approved lifting capacity of the lowest rated attachment/accessory. If the maximum load differs between floor lift, spreader bar and body support unit (i.e. sling), then the lowest maximum load shall always be used.**

**Take care when manually lifting alternative/optional components such as stretcher frames, spreader bars etc., in order to avoid injury.**

**Do not attempt to manually lift the complete lift.**

**CAUTION: Although manufactured to a high standard, the Maxi Move and accessories should not be left 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 such as under the shower.**

**WARNING: Before lifting a patient it is advisable to familiarize yourself with and understand the operation of the various controls and features of the Maxi Move, and to carry out any action concerning inspection procedures.**

The Maxi Move can be supplied with a variety of optional attachments, which are not all described in these instructions. If your Maxi Move has been equipped with an alternative/optional sub-assembly such as stretchers, etc., always refer to the separate, relevant operating instructions supplement, as well as these instructions, before you operate the lift. Only use ARJO-supplied slings and stretchers that are designed to be used with Maxi Move.

This product is intended to be operated entirely by an attendant. The patient should not perform any function relating to the control of this product. A second attendant may be required with certain patients.



# Product Description/Functions

## Parts Referred to in this Manual

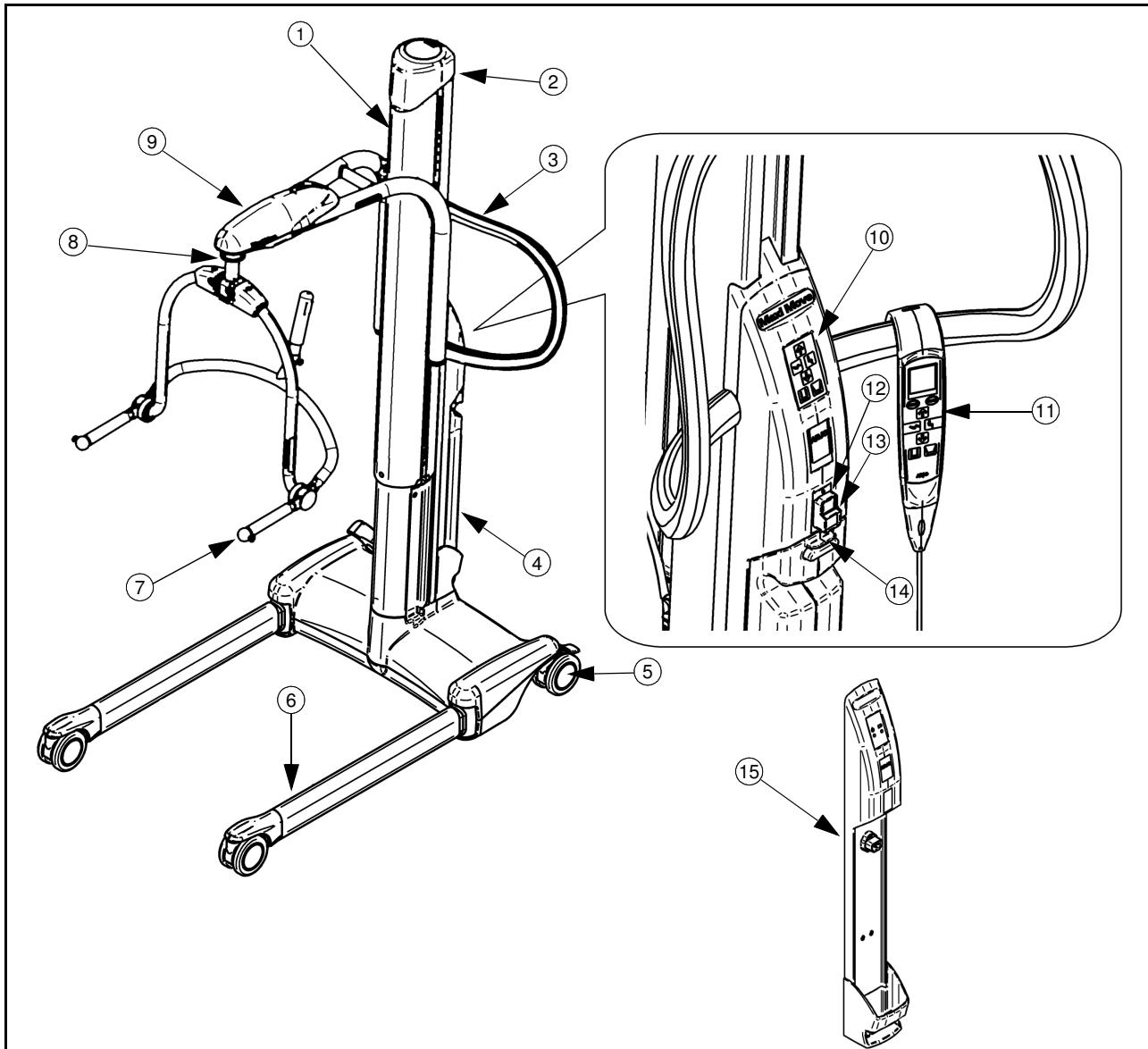


Fig. 3

- |  |   |
|--|---|
| 1) Mast  | 12) Stop button                                   |
| 2) Mast top cover                              | 13) Power button                                  |
| 3) Maneuvering handle                          | 14) Battery release button                        |
| 4) Lift battery pack                           | 15) Battery charger                               |
| 5) Braked casters                              | 16) Two-point loop spreader bar (if included)     |
| 6) Adjustable chassis legs                     | 17) Combi medium loop spreader bar (if included)  |
| 7) Medium DPS spreader bar (if included)       | 18) Four-point loop spreader bar (if included)    |
| 8) "Lock and Load" spreader bar carrier system | 19) Small DPS spreader bar (if included)          |
| 9) Jib   | 20) Medium powered DPS spreader bar (if included) |
| 10) Control panel                              | 21) Large powered DPS spreader bar (if included)  |
| 11) Control handset                            | 22) Stretcher frame (if included)                 |

# Product Description/Functions

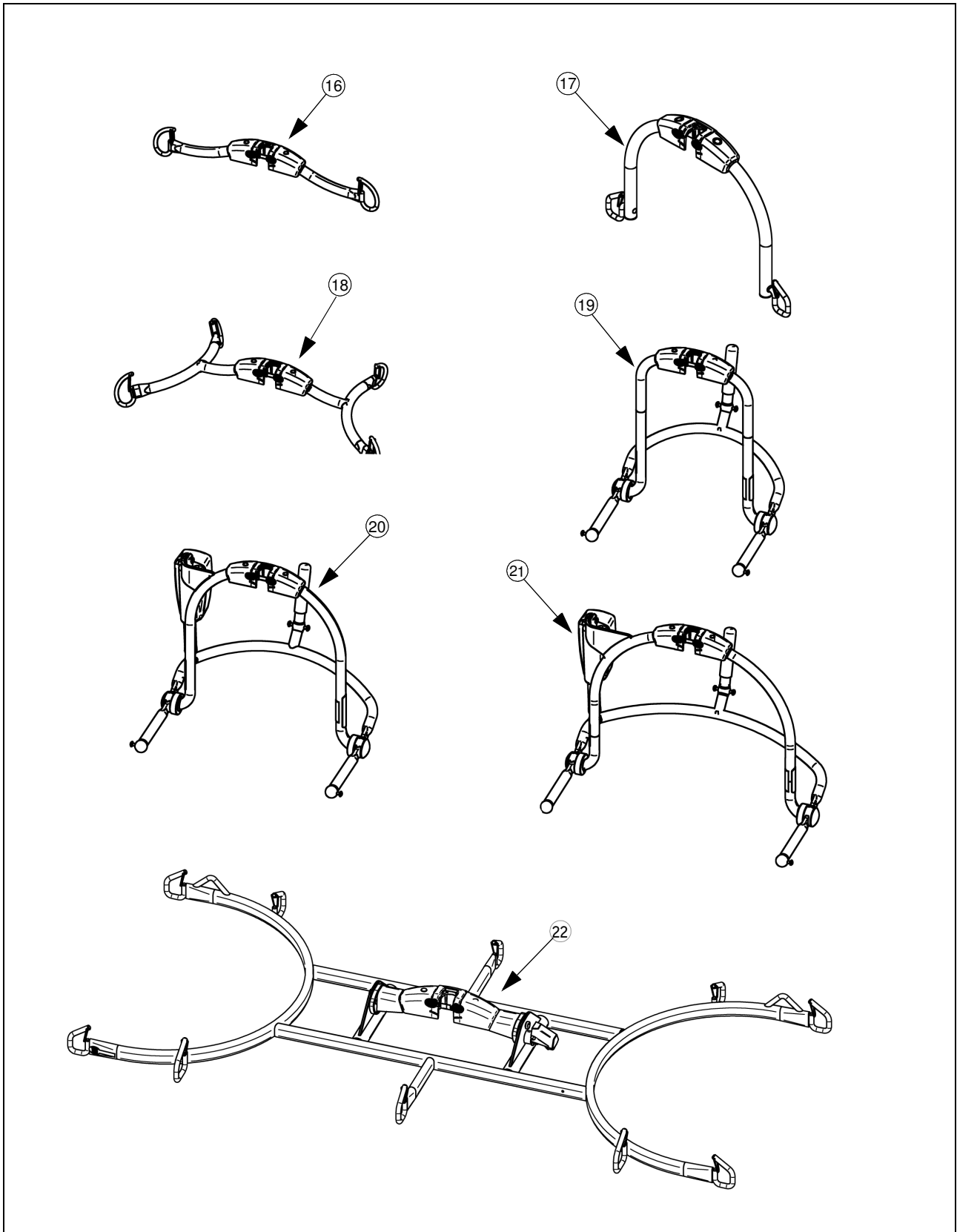


Fig. 4

# Product Description/Functions

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## Slings

The standard range of Maxi Move slings will support 227 kg (500 lb), the pediatric spreader bar range will support 125 kg (275 lb). All slings are size-coded with different colored edge binding or attachment strap coloring:

### **Pediatric 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

Always refer to the label on the sling being used to make sure of its actual safe working load (SWL).

A label is placed on the spreader bar for a quick color-to-size reference (see the section entitled “Labels”).

A range of special purpose slings is 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. 5) will help to identify the various ARJO slings and fabric stretchers available.**

**If ARJO Flites (disposable slings) are to be used with your Maxi Move, 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 supports have two pockets located in the head section. These should contain plastic reinforcement inserts during use. Always ensure that these reinforcement inserts have been placed inside the sling pockets before using the sling.**

# Product Description/Functions

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

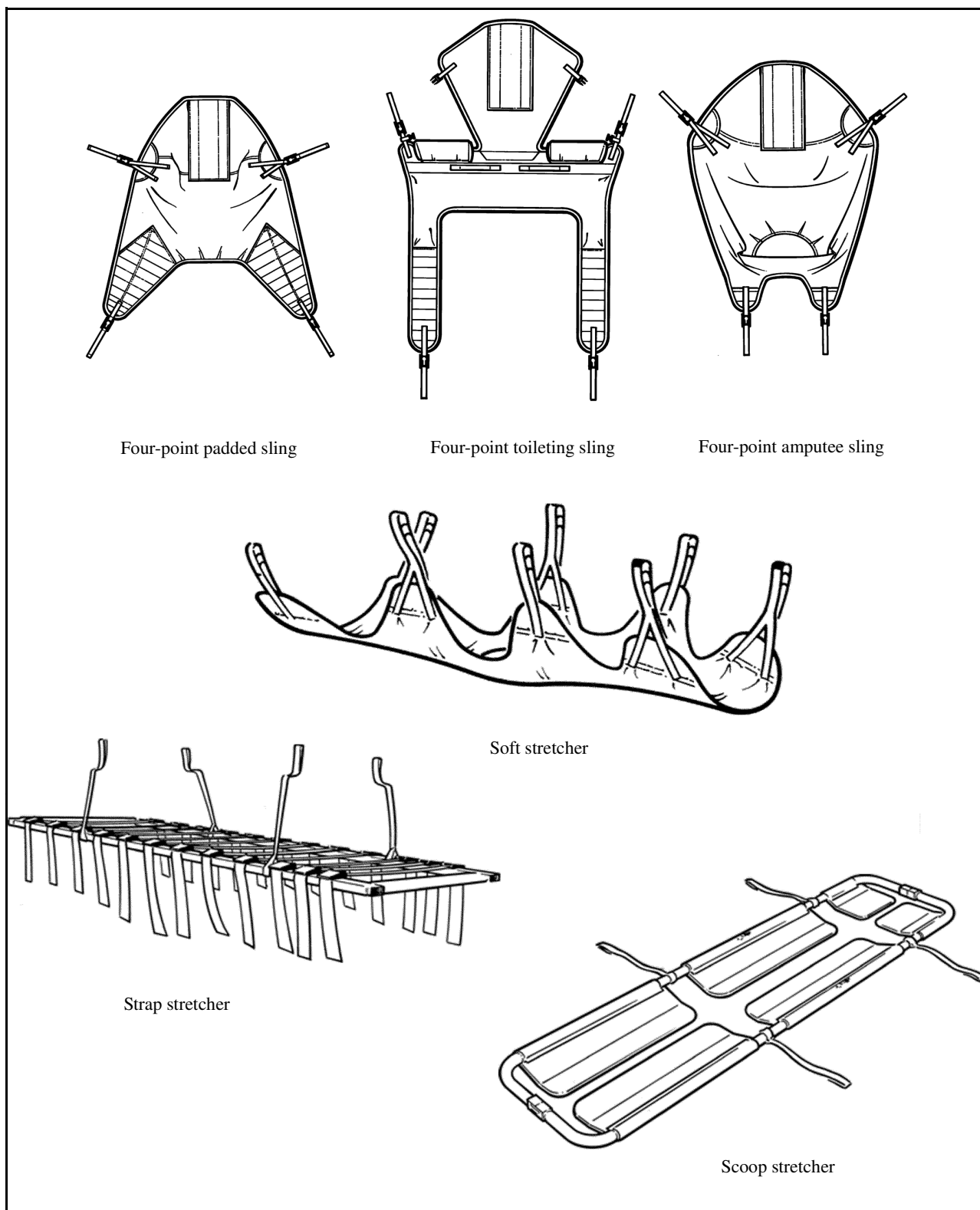


Fig. 5

# Product Description/Functions

## Controls and Features

### Control Handset

(See Fig. 6) To raise and lower the jib, open and close the chassis legs, or to operate a powered DPS spreader bar, press the appropriate button on the control handset. Icons with direction arrows are printed on each button for quick reference.

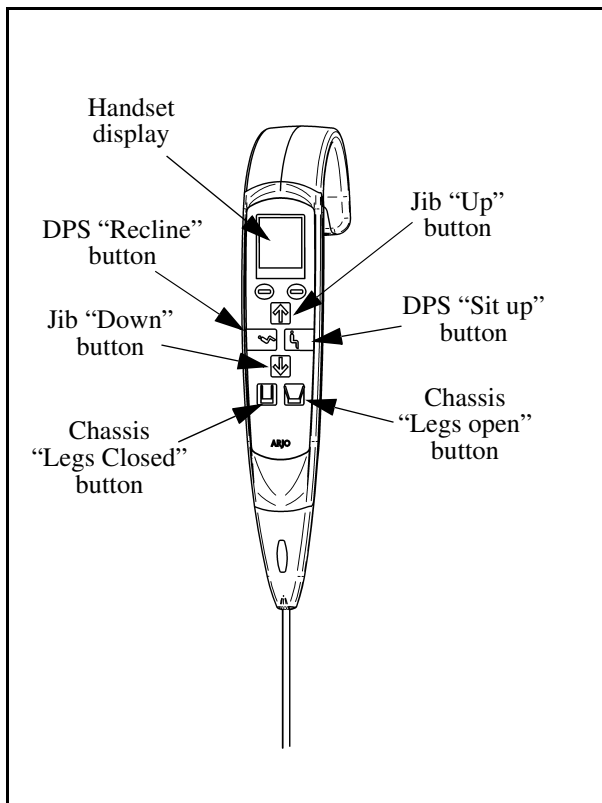


Fig. 6

If button is released during any function, powered motion will cease immediately. When not in use, the handset can be conveniently stored for later use by hooking it over the manoeuvring handle at the rear of the mast.

### Control Panel

(See Fig. 7) An additional feature available on the Maxi Move, is a mast-mounted control panel, which operates in parallel with the control handset, enabling powered operations to be controlled from the lift mast as well as remotely by using the handset. As with the handset, icons with direction arrows are printed on each button for quick reference.

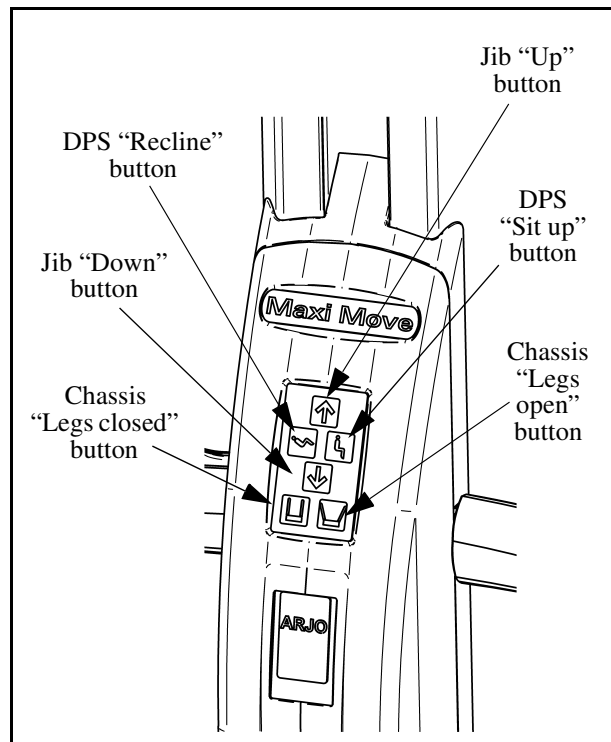


Fig. 7

### Stop Button (red)

(See Fig. 8) In an emergency, if you have to immediately stop any powered movement (other than by releasing a control handset button or control panel button), press the stop button located on the control panel.

Once the stop button has been used, the green power button will have to be pressed before the equipment can be operated again. To do this, simply push in the button.

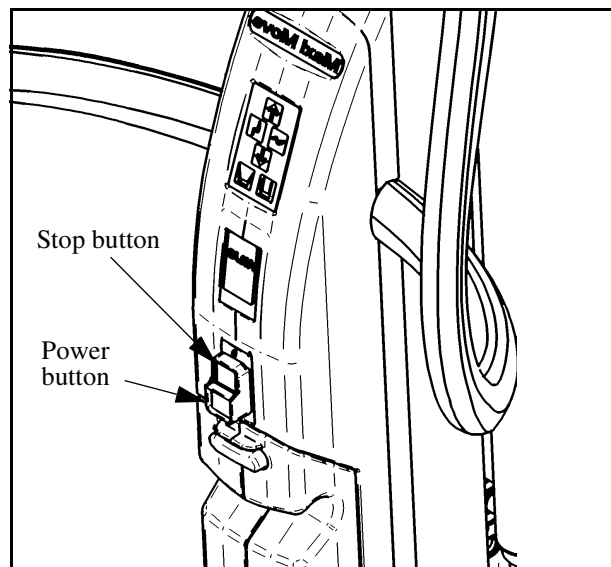


Fig. 8

# Product Description/Functions

## Power Button (green)

(See Fig. 8) Located adjacent to the stop button, this button is used to turn the unit on.

## System Failure Wind Down Facility

If electrical power fails completely due to battery power loss or other electrical malfunction, the jib can be lowered by first raising the red colored emergency lowering lever found on the rear section of the mast (See Fig. 9).

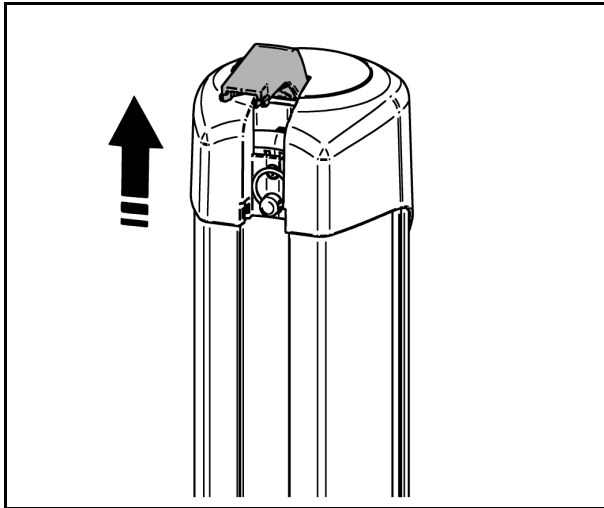


Fig. 9

Next, remove the exposed locking pin from its location beneath the red colored emergency lowering lever (see Fig. 10).

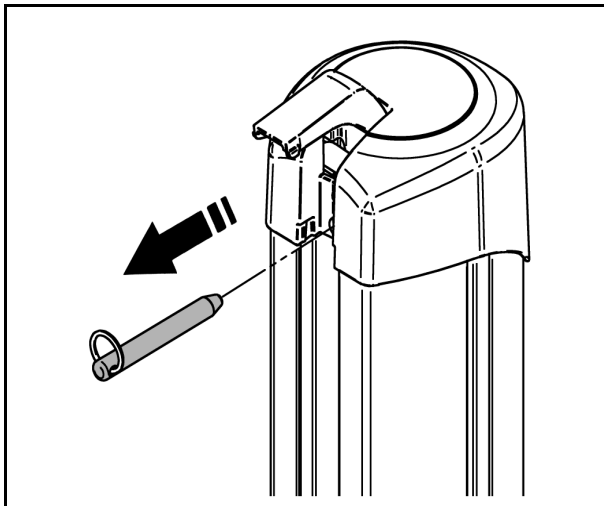


Fig. 10

Finally, using the lever as a crank, turn it in a clockwise rotation (see Fig. 11). One full clockwise rotation of the shaft lowers the mast jib by 10 mm (3/8 in).

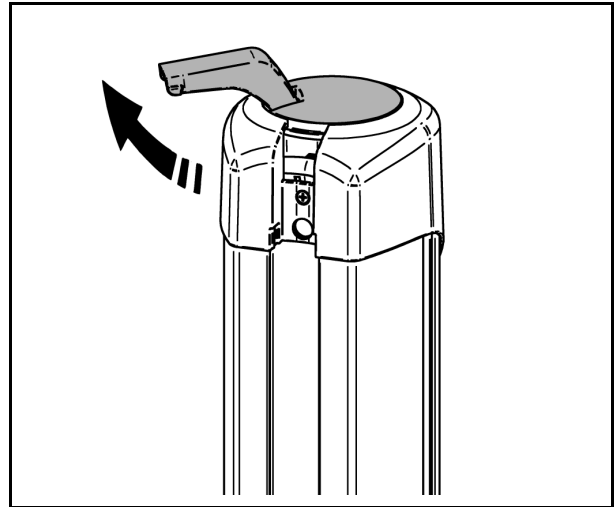


Fig. 11

**WARNING: If the mast is in a high position and the wind down function must be used, ensure that suitable and safe measures are taken to gain access to the top cover.**

If the wind down function must be used, immediately remove the lift from use and contact the ARJO Service Department or its appointed distributor.

## Automatic Cut-Out

This is not an operator control but a function built into the lift's electronics.

If the lift is inadvertently overloaded by trying to lift a load heavier than permitted, an automatic "cut-out" function operates to prevent the lift from raising a weight in excess of the safe working load (SWL). This will stop the lift's motion automatically.

If this occurs, release the jib "up" button on the handset or the control panel. The electronics will reset after a short delay to enable the patient to be lowered only when either of the "down" buttons is pressed. Make sure that the Maxi Move operates only within its safe working load.

## Anti-Crush System

This is not an operator control but a function built into the lift's electronics.

Great care should be taken not to lower the spreader bar, or stretcher onto the patient or any other obstruction. If this should happen, the unit's "anti-crush" system will engage, stop the motor and all downward movement will cease. If this occurs, release the jib "down" button immediately and press the jib "up" button to raise the jib until the lift is clear. Then remove the obstruction.

## Battery Indicator

The battery indicator for the Maxi Move is a feature found on the control handset. Please refer to the "Battery Charging" section for operating procedures.

# Product Description/Functions

## Sleep Mode


The Maxi Move is equipped with a power-saving feature which places the machine in “sleep mode” when not used for a short time. The unit is put into sleep mode in two stages:

- 1) After two minutes of inactivity (where no buttons are pressed on either the control handset or control panel), the handset’s display will go into sleep mode. The display can be taken out of sleep mode by pressing any button on the handset or the control panel. There will be a three second delay after which the unit is fully ready for use.
- 2) After six minutes of inactivity, the entire unit will placed into sleep mode and will restart only when a button is pressed either on the control handset or control panel. There will be a three second delay after which the unit is fully ready for use.

## Usage Counter

The usage counter is a feature found on the control handset which shows the accumulated amount of time (in hours) that the lift’s mast has been raised or lowered.

Initially, the display will show “0.0” at the very top of the screen (right above the larger digits for the scale), indicating 0 hours of use. The measurement will increase in increments of 0.1 whenever an additional six minutes have been accumulated. Note that the counter is recording *only during the movement of the mast*. Keeping the unit turned on, using the powered DPS or adjusting the width of the legs will not affect the usage counter.

The maintenance symbol  serves as a reminder of the annual maintenance requirements for the product. It will appear on the handset display when the usage counter reaches 175 hours. This target represents the average time a lift will be used during one year. However, based on the use of the unit, the maintenance symbol can appear sooner or later than a year.

When the maintenance symbol appears, the unit will still be safe to use, but the annual maintenance should be performed as soon as it is reasonably possible.

## Adjustable Width Chassis Legs

(See Fig. 12) To open the chassis legs, press the “legs open” button on either the control handset or control panel. When the button is released, movement will stop and the chassis legs will remain securely in position. Always transfer patients with the chassis legs in the closed position.

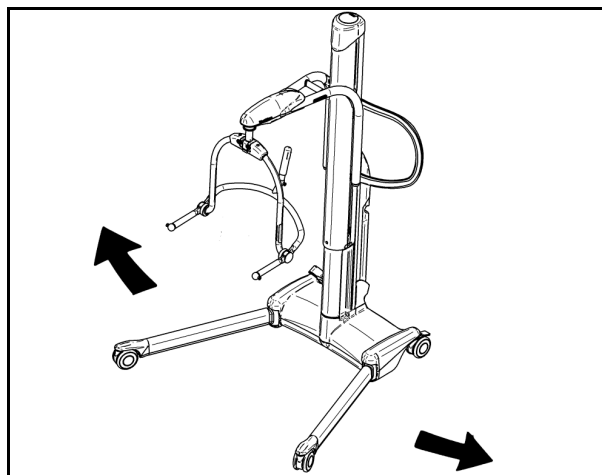


Fig. 12

## Chassis Castor Brakes

(See Fig. 13) The chassis rear castors have brakes which can be foot operated to keep the Maxi Move in position.

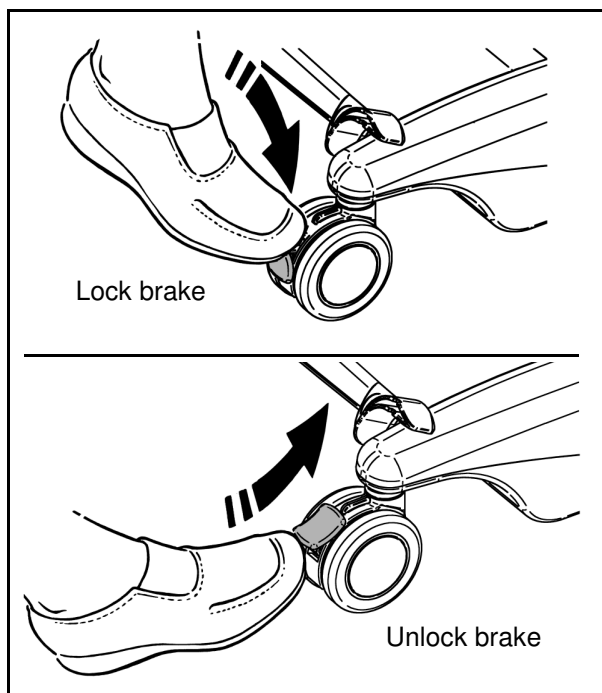


Fig. 13

## Jib and Spreader Bars/Stretcher Frame

(Consult Fig. 3) Your Maxi Move is equipped with a quick connection device that allows you to use multiple attachments, such as loop/DPS spreader bars, stretcher frames, etc. See the section entitled “Using your Maxi Move” for full instructions on installing or changing attachments.

# Using your Maxi Move

## Before Approaching the Patient

Ensure that the battery pack supplied is fully charged before use (for recharging batteries, see the instructions in the “Battery Charging” section). When the battery pack is fully charged, remove it from the charger unit and insert it back into the Maxi Move. First, match the recess across the bottom of the battery pack with the protrusion at the bottom of the battery slot, then pivot the battery into position until the retaining catch engages. An electrical connection will be made automatically.

Ensure that the green power button (located below the control panel) is pushed in (see Fig. 8).

Ensure that a selection of sling types and sizes is available for all transfers likely to be performed using the Maxi Move.

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

**WARNING: To ensure the patient’s maximum comfort, do not allow the patient to hold on to the spreader bar.**

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

## Powered Opening “V” Chassis

Push the “legs open” button on the control handset or control panel until the required width for the chassis legs is reached. To close, press the “legs closed” button. Movement will stop if the button is released, whether opening or closing.

When opening or closing the legs on a powered chassis, care must be taken not to allow anything to stand in the way of the chassis’ moving legs. For example, pay special attention when the legs are operated around chairs or in doorways.

The lift must be moved only when the chassis legs are in the closed position.

## Maxi Move ‘Lock and Load’ System

(Consult Fig. 14)

If you need to install or change the attachment, such as the spreader bar or stretcher frame, proceed as follows:

To remove the spreader bar, hold it carefully and depress the retaining catch to release it from the carrier (see A). Then lift the spreader bar upwards and away from the carrier (see B and C), and store it carefully for future use. Finally, select the attachment required and—while carefully lifting it up—allow the recess in the spreader bar to fit around the carrier shaft (see D). Ensure the spreader bar drops down over the carrier and that the retaining catch engages fully.

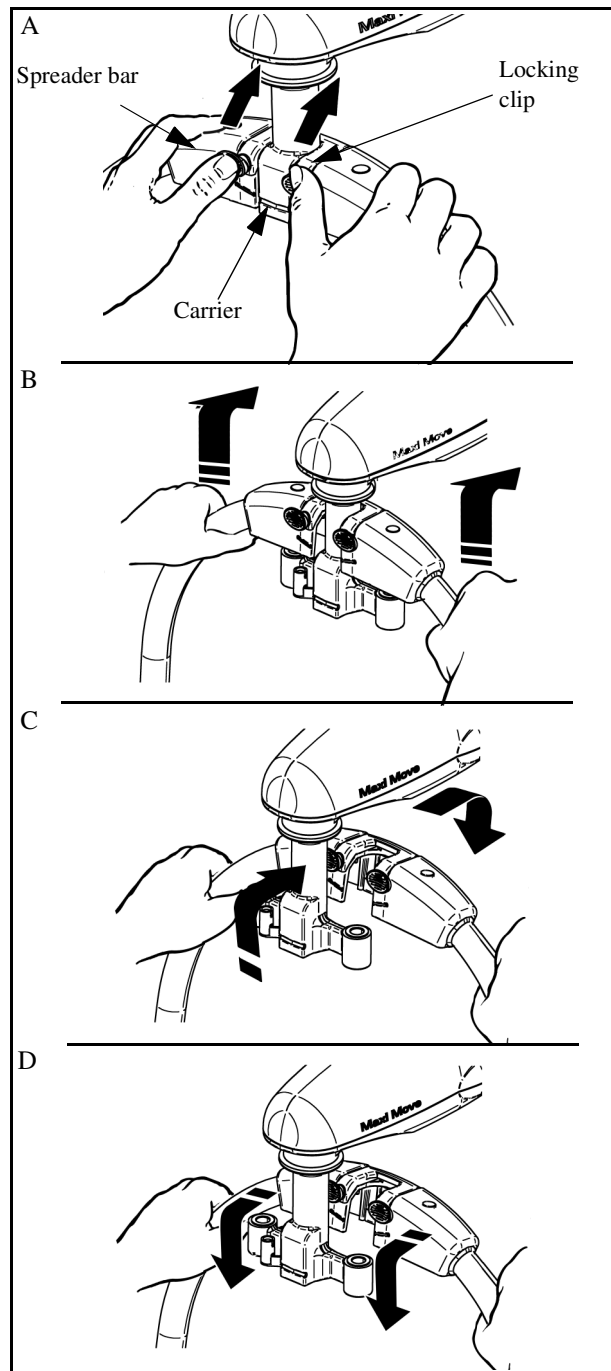


Fig. 14



# Using your Maxi Move

**WARNING:** Be prepared to take the full weight of the spreader bar when removing it from the jib.

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

## Using the DPS Spreader Bar

Ensure the spreader bar is securely connected to the jib before starting to lift.

### 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 portion of the sling is behind the head. Pull each leg strap from under the thigh so that it emerges on the inside of the thigh (see Fig. 15).

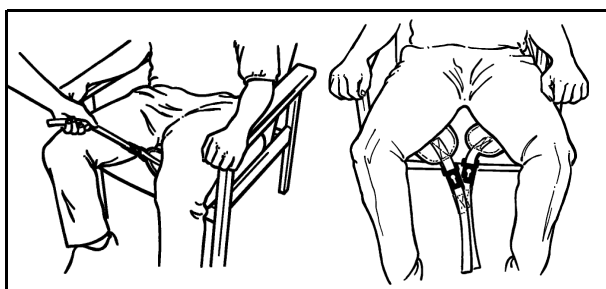


Fig. 15

Ensure the positioning handle on the spreader bar is facing away from the patient, and that the open part of the spreader bar is at or just below shoulder level (see Fig. 16).

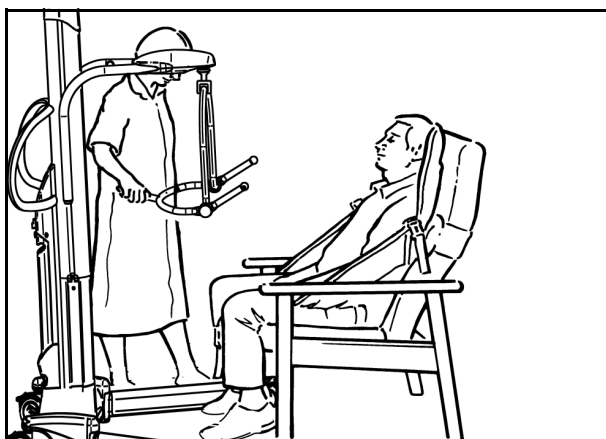


Fig. 16

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

**WARNING:** When installing and lifting using the sling with the DPS spreader bar, ensure that the patient's hands and arms are kept inside the sling at all times. Do not allow the patient to hold on to the spreader bar.

Once the Maxi Move is in position, attach the shoulder strap attachment clips to the sling attachment lugs on the spreader bar (see Fig. 17).

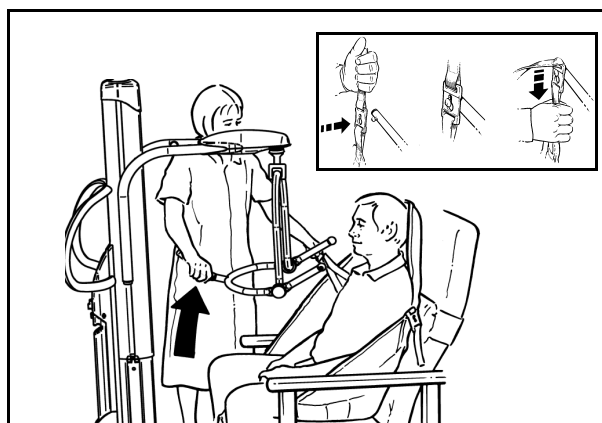


Fig. 17

**CAUTION:** The chassis rear castors have brakes which can be foot-operated when required (see Fig. 13). Do not apply the chassis brakes at this stage, as the position of gravity of the patient will adjust to the center of gravity of the lift while the patient is being raised.

Press down on the positioning handle on the spreader bar and attach the leg strap attachment clips (see Fig. 18).

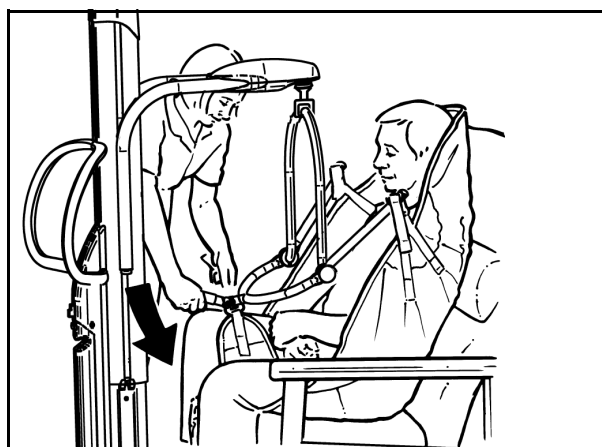


Fig. 18

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

# Using your Maxi Move

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

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

Before transferring, position the patient to face the attendant at approximately the height of a normal chair. This provides a measure of confidence and dignity to the patient.

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

Lift the patient using the handset control, and adjust to a comfortable position for transfer (see Fig. 19). The specially designed sling, together with its integral head support, enables one person to carry out the complete lifting function without additional help.

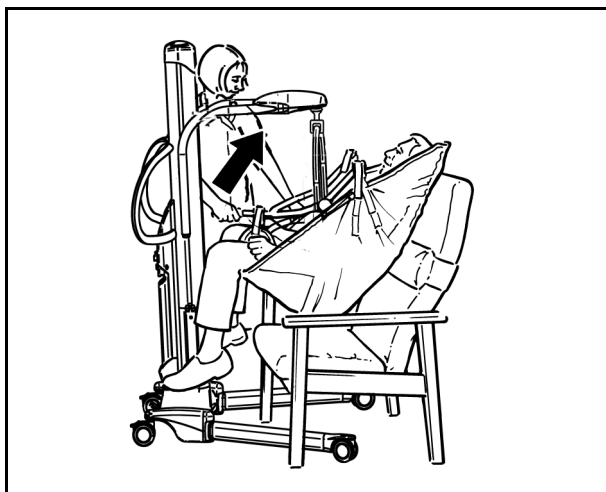


Fig. 19

Move the lift away from the chair. The angle of recline can be adjusted to increase comfort for more restless patients. The lift can now be directed towards the following transfer point (see Fig. 20).

**WARNING:** Do not attempt to maneuver the lift by pulling or pushing on the mast, the jib, the spreader bar or the patient as this can cause the lift to topple over.

**WARNING:** When lowering the spreader bar, ensure that the patient's and attendant's legs and feet are well clear of the moving mast.

Only detach the sling leg connection clips followed by the shoulder connection clips when the patient's body weight is fully supported by the bed.

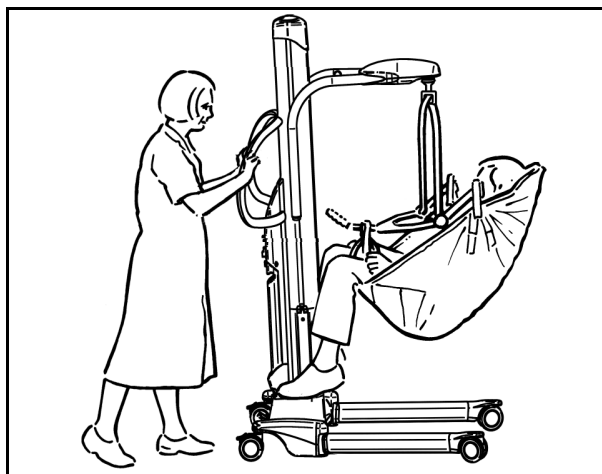


Fig. 20

When lowering the patient back down, lower the positioning handle to put the patient into a sitting position. This avoids further lifting strain. Take care not to push down too quickly, as this may jerk the patient's head forward.

## To Lift from the Bed

Before lifting a person from a bed, ensure there is sufficient clearance underneath the bed 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. 21).

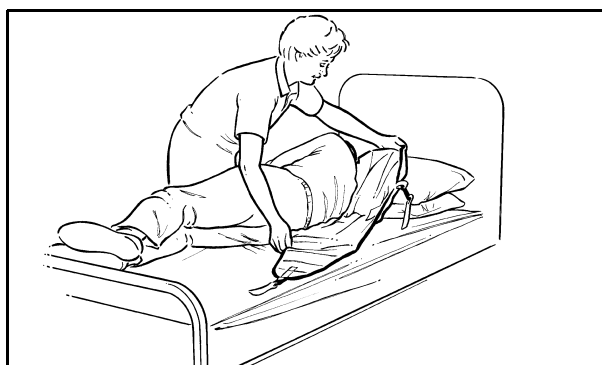
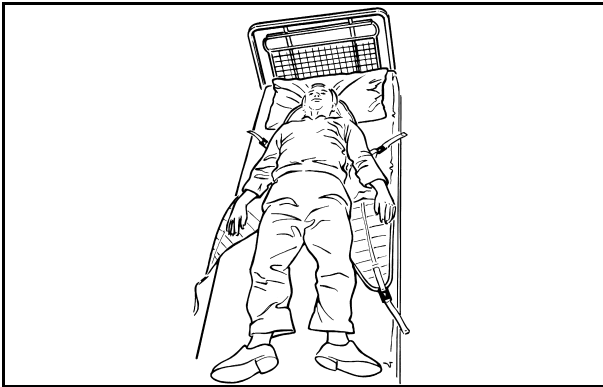


Fig. 21

Position the sling carefully so that, when rolled back, the patient will lie on the center of the sling (see Fig. 22). Check that the head support area of the sling covers the patient's neck.

# Using your Maxi Move

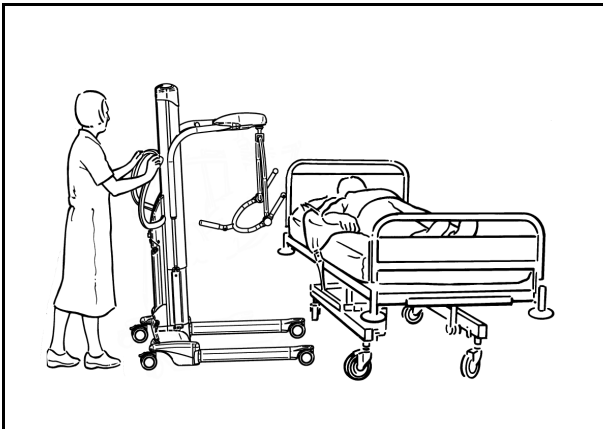


**Fig. 22**

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 pulled forward.

Alternatively, the patient can be brought into a sitting posture. Then position the sling as detailed in the section entitled “To Lift From A Chair”.

Approach the bed with the open side of the spreader bar towards the patient’s head (see Fig. 23).



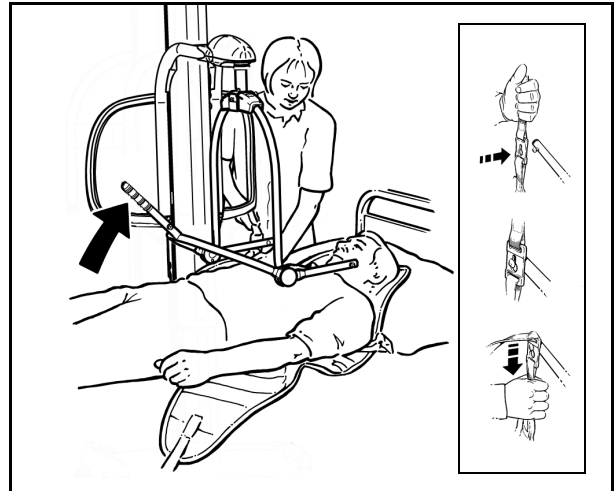
**Fig. 23**

Using the adjustable width chassis, it is possible to make adjustments to the chassis leg width to assist with manoeuvrability around obstructions, such as bed legs or castors.

Now position the Maxi Move so that the spreader bar is just above and centered over the patient.

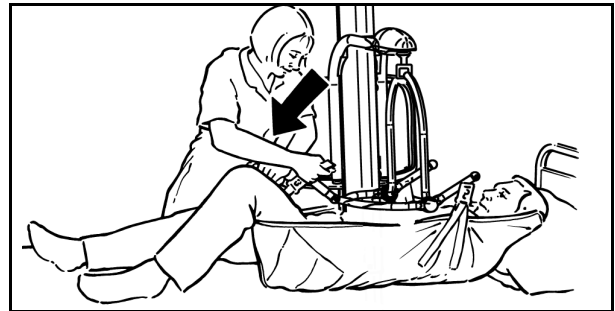
**WARNING: Take care not to lower the spreader bar onto the patient.**

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. 24).



**Fig. 24**

Press down on the positioning handle until the sling leg sections can be connected (see Fig. 25). Connect the leg sections under the thighs by lifting one leg at a time. You may need to lower the spreader bar a little, using the handset control.



**Fig. 25**

When lifting from the bed, some attendants prefer to connect the leg straps first. This applies in particular to patients with large thighs. In that case, raise the hip and knee into maximum flexion, and attach the leg strap attachment clips. Then tilt the spreader bar towards the shoulders to connect the shoulder attachment clips.

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

Lift the patient using the handset control, and with the positioning handle, bring the patient into a comfortable position for transfer (see Fig. 26). The specially designed sling, together with its integral head support, enables one person to carry out the complete lifting function without additional help.

# Using your Maxi Move

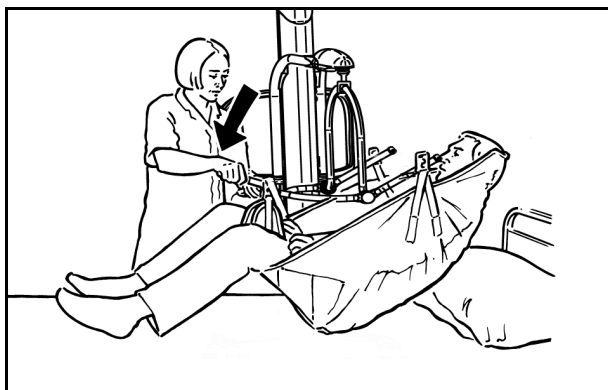


Fig. 26

If returning the patient to a bed, move into the desired position above the bed, adjusting the spreader bar position as necessary. Then lower the patient using the handset control.

**WARNING: When lowering the spreader bar, ensure that the patient's and attendant's legs and feet are well clear of the moving mast.**

**Only detach the sling leg connection clips followed by the shoulder connection clips when the patient's body weight is fully supported by the bed.**

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

## To Lift from the Floor

Put the sling around the patient, by rolling or sitting the patient up. Open the chassis legs first, then approach and lift the patient's legs over the chassis as shown in Fig. 27.

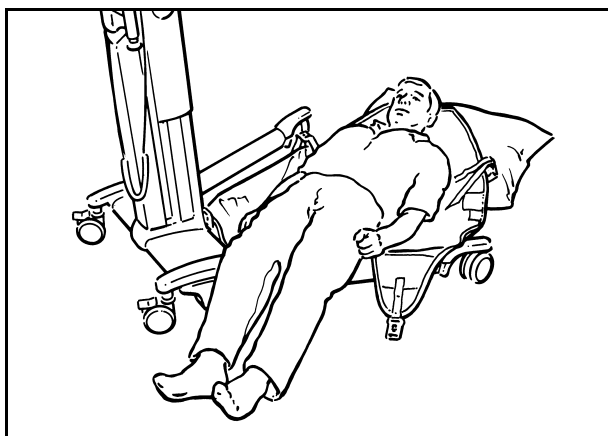


Fig. 27

**CAUTION: While the patient is positioned over the legs as shown in Fig. 27, DO NOT operate the adjustable chassis leg controls.**

When connecting the sling to the spreader bar, the patient's head and shoulders could be raised with pillows for additional comfort.

With the open part of the spreader bar pointing down towards the shoulders, attach the shoulder strap attachment clips, as shown in Fig. 28 and inset.

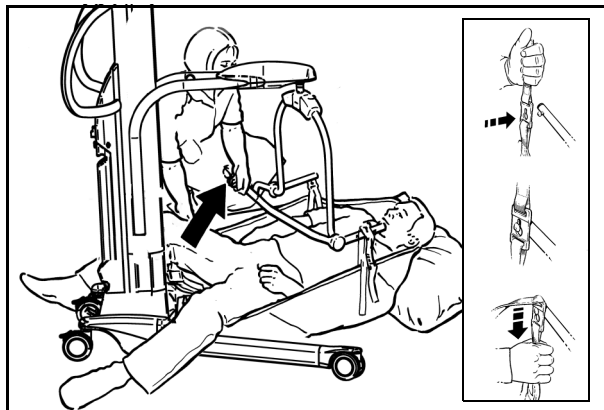


Fig. 28

Once connected, raise the hip and knee into maximum flexion, and push down on the positioning handle to be able to connect the leg strap attachment clips as shown in Fig. 29. This will have the effect of raising the patient's head and shoulders slightly.

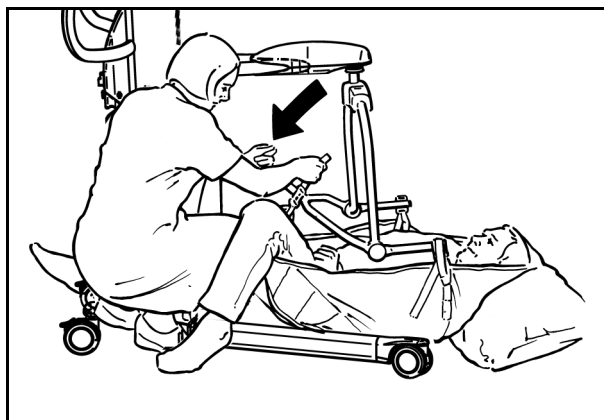


Fig. 29

**CAUTION: Always check that all the sling attachment clips are fully in position before and during 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 straps first. This applies in particular to very large patients with large thighs. In that case, raise the hip and knee into maximum flexion, and attach the leg strap attachment clips. Then tilt the spreader bar towards the shoulders to connect the shoulder attachment clips.

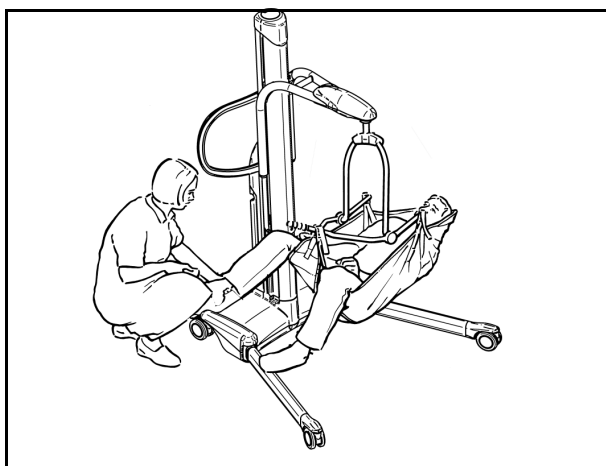
When all the straps are securely attached, lift the patient from the floor in a semi-reclining position. Supporting

# Using your Maxi Move

the head can add comfort and can reassure the patient. Once raised from the floor, ensure the patient's legs are clear of the chassis before continuing to lift (see Fig. 30). The leg portions of the sling will tend to be fairly high in the patient's crotch area. Straighten them out for added comfort. The patient may then be positioned in a chair, or placed on a bed. Patients with extensor spasms may be lifted by the Maxi Move, but care should be taken to support the patient's legs during the beginning of the lift.

**WARNING: When lowering the spreader bar, ensure that the patient's and attendant's legs and feet are well clear of the moving mast.**

**Only detach the sling leg connection clips followed by the shoulder connection clips when the patient's body weight is fully supported by the bed.**



**Fig. 30**

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

The transferring of patients should always be done with the chassis legs closed. Manoeuvrability will be easier, especially through doorways. As usual, the patient should be positioned facing the attendant.

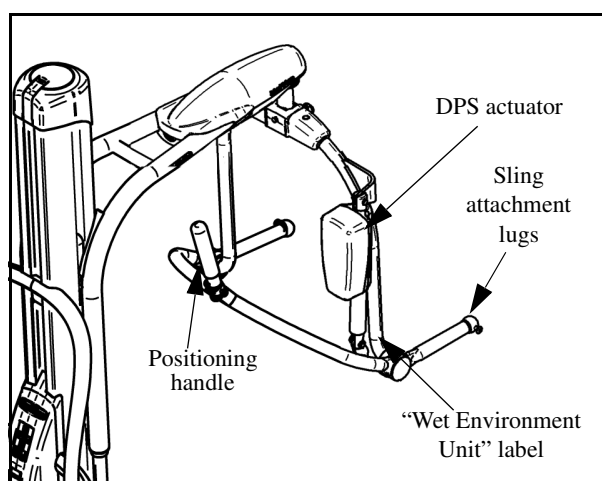
## Powered DPS Spreader Bar

If your lift has been supplied equipped with a powered DPS spreader bar (see Fig. 31), 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 manual DPS spreader bar described previously in these instructions.

**WARNING: Before using your lift equipped with the powered DPS spreader bar, familiarize yourself with the various parts as illustrated in Fig. 31. Read and thoroughly understand these 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 manual DPS spreader bar.**

**The lifting capacity of the lift, when equipped with the powered DPS spreader bar remains the same as the manual DPS spreader Bar.**



**Fig. 31**

The fundamental difference is that 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.

The rotation of the powered DPS spreader bar is manual and is the same as the manual DPS spreader bar.

The powered DPS is classified by ARJO as a wet environment unit. A blue and white circular label is attached to show this. This label signifies that only the lower end of the unit may be immersed in bath water, or used for showering.

To operate the powered patient positioning function, ensure that the green power button is pushed in (see Fig. 8).

When ready to perform the patient positioning function (as described previously), operate the powered DPS control buttons on the handset (see ) or the buttons found on the control panel to cause the spreader bar to move in the required position.

# Using your Maxi Move

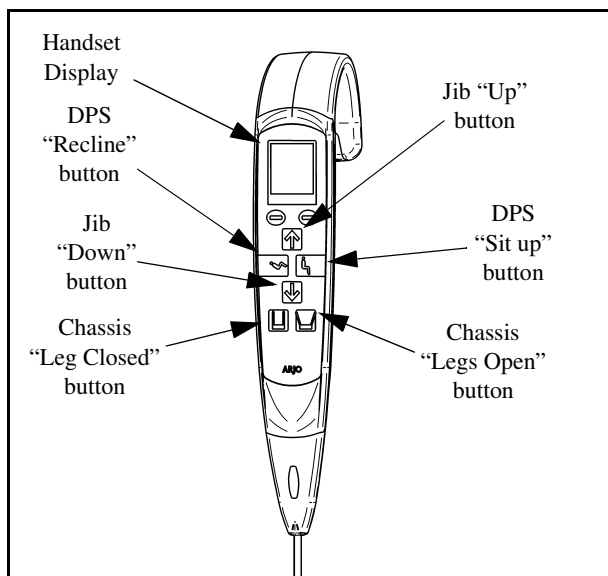


Fig. 32

To stop any powered movement, release the control button or press the stop button.

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

Always ensure the spreader bar is securely connected to the jib before starting to lift.

**CAUTION: Before and during operation of the powered DPS spreader bar, ensure all obstructions are clear of the spreader bar, support frame and jib.**

## Care of Your Powered DPS Spreader Bar

For general care, refer to the section entitled "Care of your Maxi Move". Refer in particular to the paragraphs on cleaning plastic parts, labels, etc.

**CAUTION: The DPS actuator contains moving parts. Take care not to damage it. Should the covers become damaged, do not use the lift and replace the actuator before reusing the lift.**

## Using the Loop Spreader Bar

If your Maxi Move has been equipped with a loop spreader bar, ensure that the spreader bar is rotated into position before attaching the sling, so the eventual lift will resemble Fig. 33.

When attaching a loop sling to the loop spreader bar, always ensure that the sling attachment loops are installed correctly into the retaining hooks (see Fig. 34).

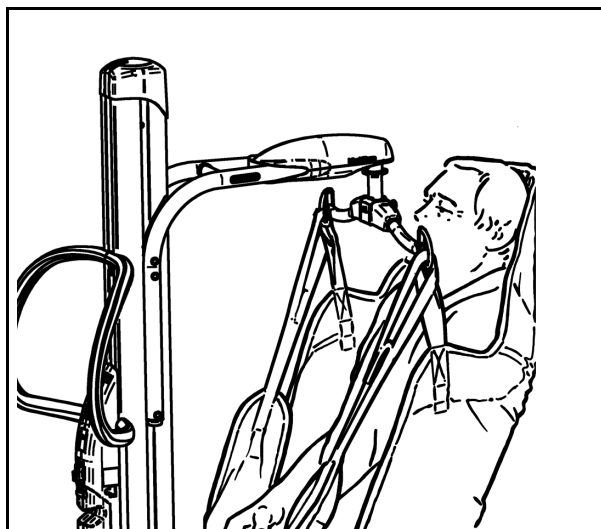


Fig. 33

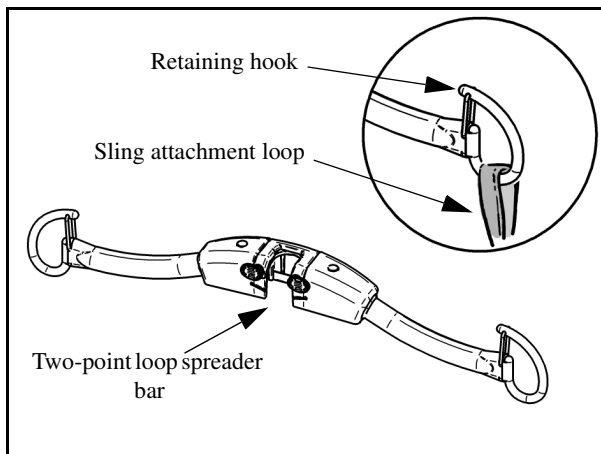


Fig. 34

Use ARJO loop slings with the loop spreader bar (consult Fig. 4). They are available in four color-coded sizes (small, medium, large and extra-large). For details on a more specialized range of slings, please contact ARJO or its authorized distributors.

The loop slings are available with or without a head support. A mesh sling is also available in all four sizes, with or without a head support.

## To Lift from a Chair

First, ease the patient forward if necessary. Slide the sling down the patient's back until seam "C" reaches the base of the spine (see Fig. 35).

# Using your Maxi Move

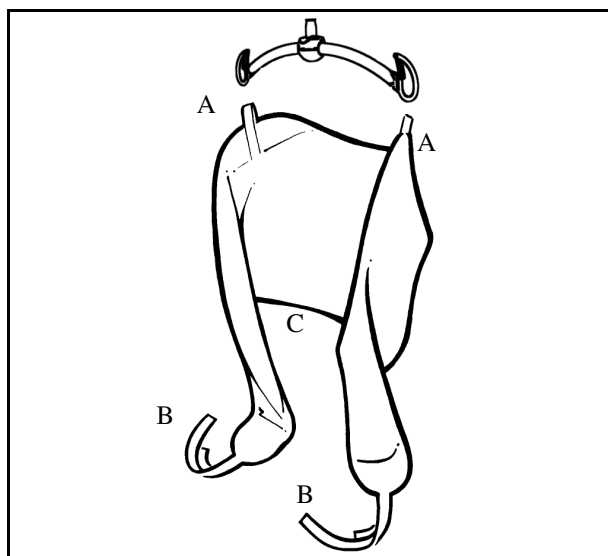


Fig. 35

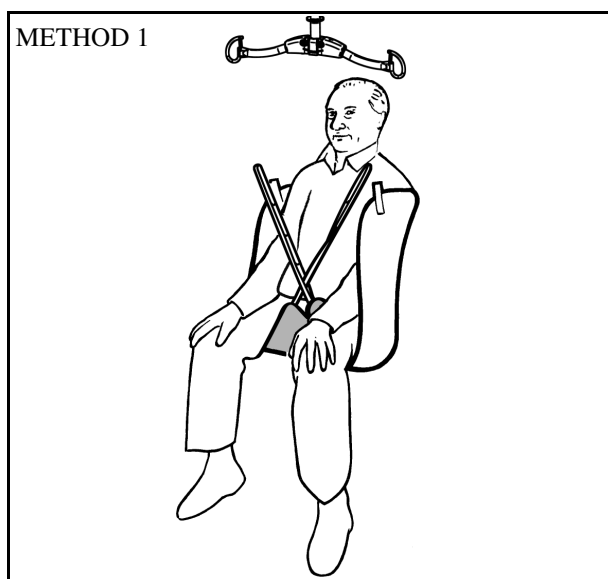


Fig. 36

Method 1 - Bring attachment loops "B" and the leg sections of the sling underneath the patient's thighs. Ensure that the leg sections of the sling are not twisted underneath the patient. Hook the attachment loops onto the hooks on the opposing side of the spreader bar (see Fig. 36 above).

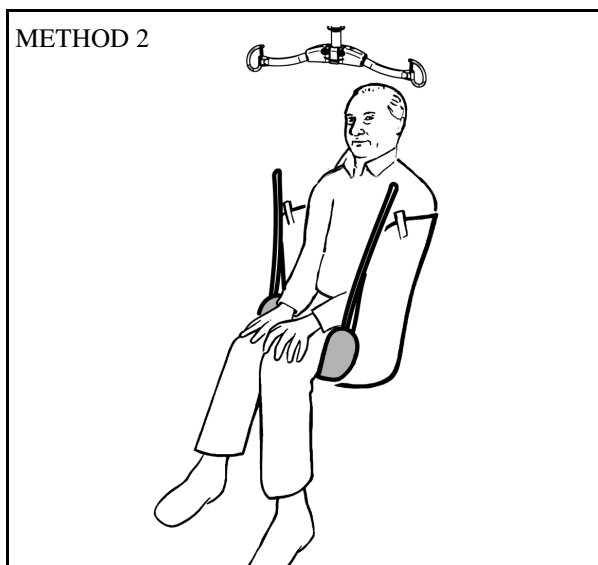


Fig. 37

Method 2 - As in Method 1, but pass each leg section of the sling under both thighs and then out the other side before attaching points "B" to the hooks on the opposing side of the spreader bar (see Fig. 37 above).

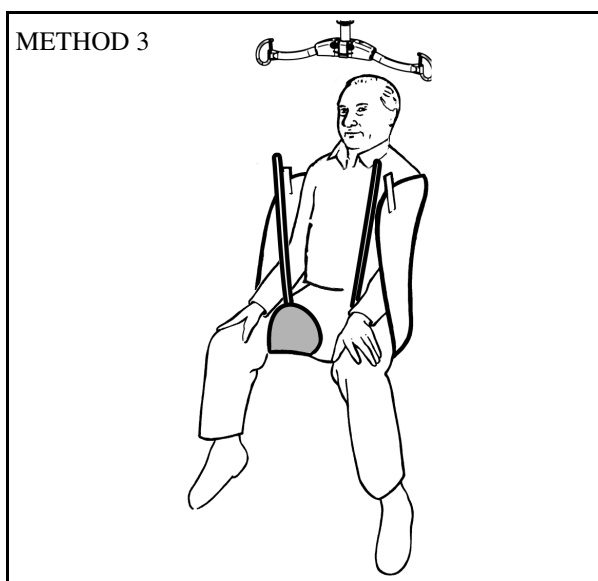


Fig. 38

Method 3 - As in Method 1, but loop a leg 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 toileting (see Fig. 38 above).

# Using your Maxi Move

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

**When lowering, ensure that both the patient's and attendant's legs and feet are well clear of the moving mast.**

Once the sling has been positioned and attached securely to the spreader bar, the patient can be lifted using the control handset. For general patient manoeuvring and transferring, see also the section entitled "Using DPS Spreader Bar".

Apart from the methods listed above, the Loop spreader bar with loop slings is also extremely useful for lifting patients who have "contracted legs", which prohibit the use of the DPS spreader bar. Attach the sling as described in the section entitled "To lift from the Bed".

## To Lift from the Bed

Place the sling under the patient as if it were a sheet. Flex the patient's legs and bring the sling leg sections under the thighs. Attach the sling to the spreader bar using any of Methods 1-3 above.

**CAUTION: Check that all four points of the sling are securely connected before lifting.**

## To lift from the Floor

**NOTE: 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 along the patient's back. Bring the leg portions of the sling into position. Raise the patient's legs over the chassis, and bring the lift into position (see Fig. 39). With the jib as low as possible, attach the shoulder loops. Bend up the patient's knees to connect up the leg portions of the sling.

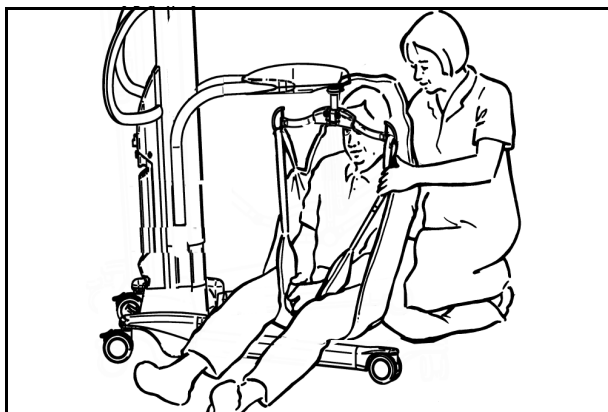


Fig. 39

**CAUTION: Check that all the loops are securely attached before lifting.**

When lifting or lowering a patient who is supported by a sling, do not use the castor brakes. This allows the lift to move to the correct position using the patient's center of gravity.

When the patient has been returned to the bed, the patient may be laid down before the sling is detached.

**WARNING: When lowering the spreader bar, ensure that both the patient's and attendant's legs and feet are well clear of the moving mast.**

## Using the Stretcher Frame

**WARNING: To avoid tipping when using the lifter with a stretcher, transfers must only be performed on flat, non-sloping surfaces/floors. Also, always make sure that the patient is positioned in the middle of the stretcher.**

The stretcher frame has been designed to aid portability without removing the stretcher frame from the lift, such as for going through doorways.

**WARNING: Do not raise or lower the patient while the stretcher frame is being used to transfer a patient.**

## Using the Soft Stretcher

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. Both types are available with or without commode hole. Use the following procedure to lift a patient using the stretcher frame and soft stretcher.

**CAUTION: Before the soft stretcher can be used with the Maxi Move, ensure the ARJO stretcher frame has been correctly installed on the carrier (see Fig. 14). Once correctly installed, the stretcher frame should be able to rotate approximately 90° around its axis. Do not install the stretcher frame in line with the jib.**

Identify the head section of the soft stretcher. Look for a label sewn to the end of the head section.

Position the soft stretcher sling by rolling the patient over as if inserting a sheet. Ensure that the top section of the sling (as indicated by the label attached to the sling) is under the patient's head, with the top edge of the sling



# Using your Maxi Move

level with the top of the head (see Fig. 40). With the stretcher frame as high up as possible, move the lift until the frame is directly over the patient.

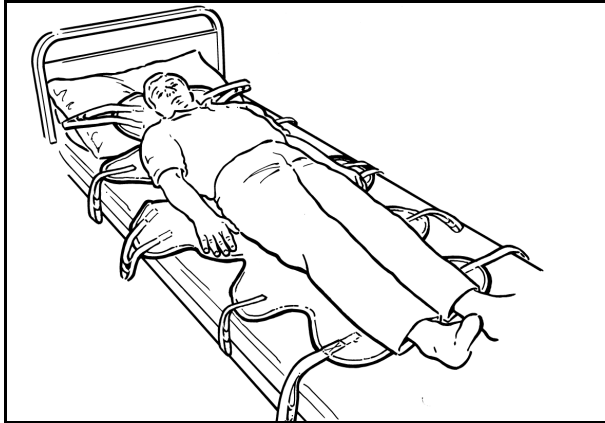


Fig. 40

The frame is symmetrical and can be used from either side (see Fig. 41).

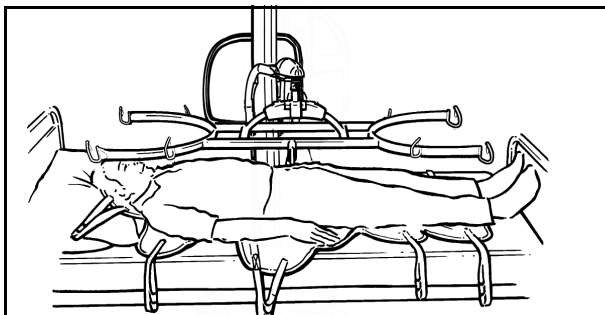


Fig. 41

Lower the stretcher frame carefully over and just clear of the patient, aligning the center of the frame approximately over the patient's navel. Connect all the sling loops securely (see Fig. 42).

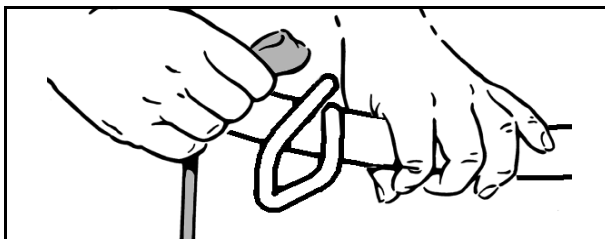


Fig. 42

**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.

**WARNING:** It is essential to keep the patient at approximately the height of the bed to ensure stability of the unit and to maintain patient/attendant contact.

When lowering the stretcher frame, ensure that the patient's and attendant's legs and feet are well clear of the moving mast.

Raise and move the patient away from the bed (see Fig. 43).

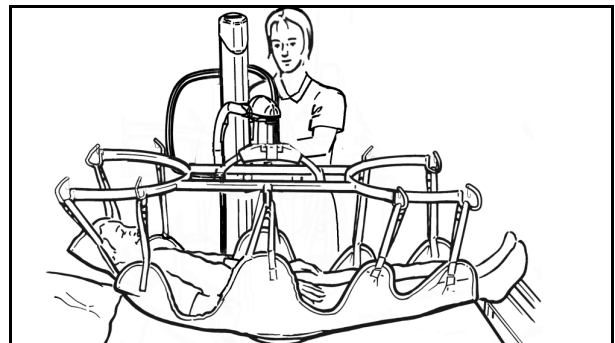


Fig. 43

Rotate the stretcher frame until the patient's feet are close to the mast (see Fig. 44). In this position, the complete unit may be moved through wide doorways. Otherwise, leave the stretcher perpendicular to chassis legs. In this position, the lift and patient can be moved through a doorway sideways.

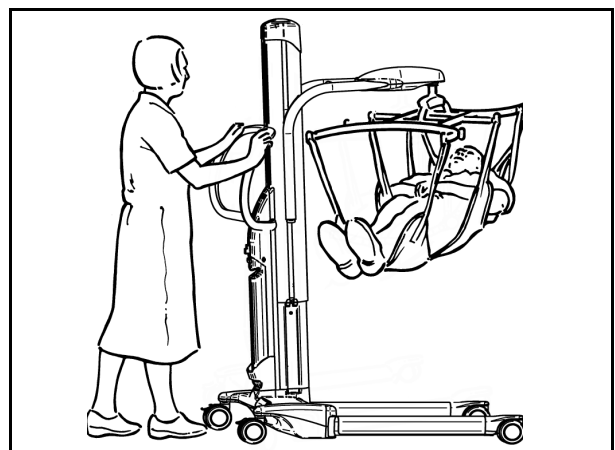


Fig. 44

**WARNING:** Only use soft stretchers that have all blue colored attachment straps.

Note: The "head end" straps have a black tab stitched to them that can be used with other ARJO stretcher frames.

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

# Using your Maxi Move

## Using the Strap Stretcher

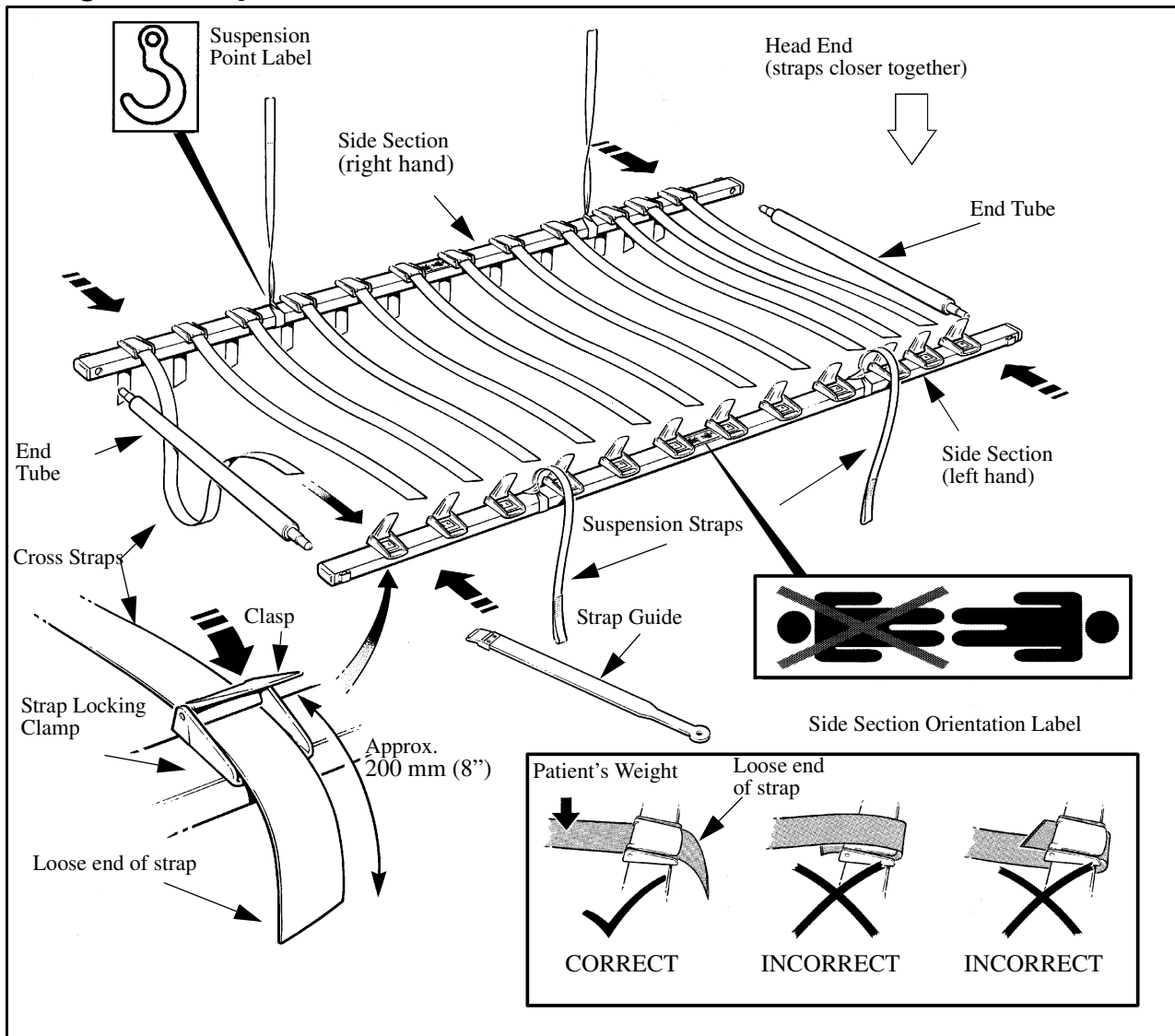


Fig. 45

**CAUTION:** Before the stretcher can be used with the Maxi Move, ensure that the ARJO stretcher spreader bar has been correctly installed on the carrier (see Fig. 14). Once correctly installed, the stretcher spreader bar should be able to rotate approximately 90° around its axis. Do not install the stretcher spreader bar in line with the jib.

First attach the 12 cross straps to one of the side sections (see Fig. 45). To do this, push each strap through a locking clamp and press the clasp down fully to lock it. Initially, leave approximately 200 mm (8 in) of strap outside the clamp (see inset to Fig. 45).

Note that the three closely positioned strap clamps should be positioned at the head end of the strap stretcher (a label on each side section will indicate this).

Place one end tube above the patient's head and one below the feet. Place the "unstrapped" side section at the side of the patient with the clamps towards the top (see Fig. 46). Push each end tube through the corresponding holes in the side sections.

Hold the "strapped" side section with the longer lengths of the straps hanging toward the patient and place it on the bed beside the patient so that the longer lengths of the straps fold under the side section (see Fig. 47). Connect the end tubes as described previously.

# Using your Maxi Move

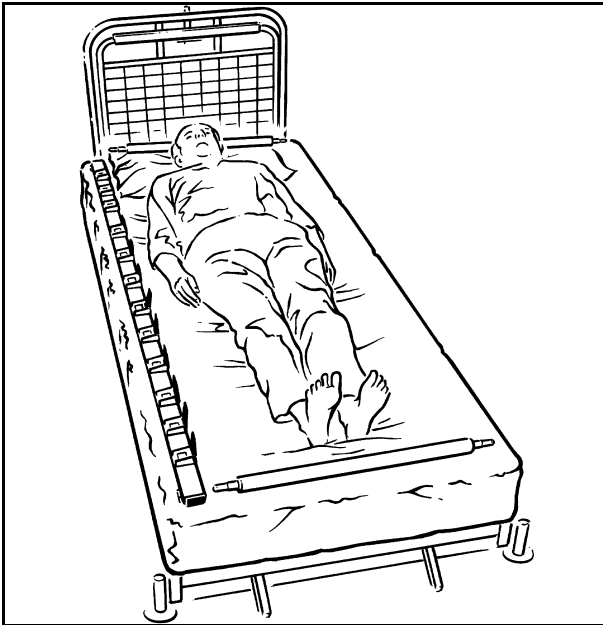


Fig. 46

Slide the straps under the patient where this can easily be done. Lift the patient's head and legs to facilitate this. For straps which are held under the weight of the patient, use the strap guide as follows:

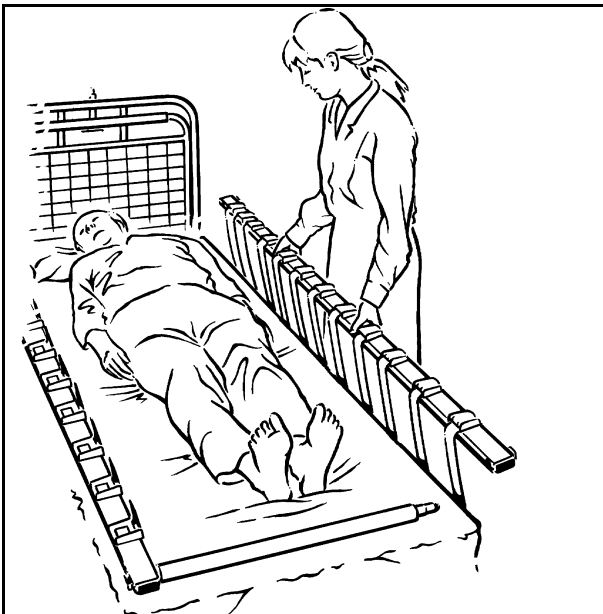


Fig. 47

Thread the long section of the strap that is to go under the patient through the strap guide as shown in the inset in Fig. 48. Gently push the strap and guide under the patient until the strap can be pulled clear and connected to the opposite strap clamp (see Fig. 49). Slide the guide back out from under the patient, keeping it under the positioned strap.

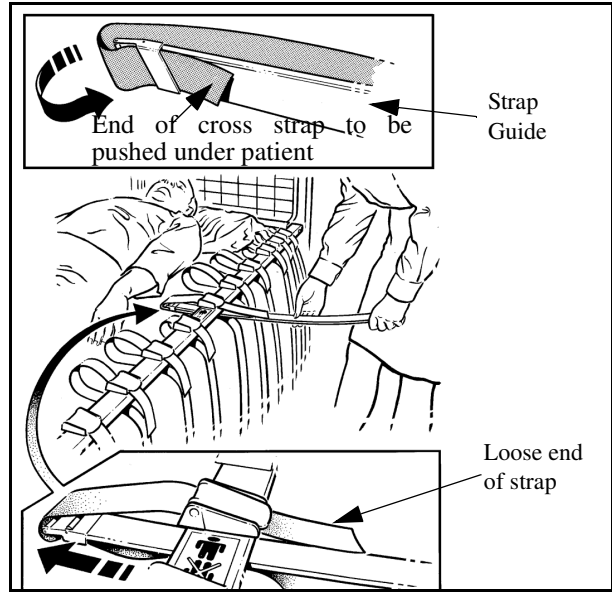


Fig. 48

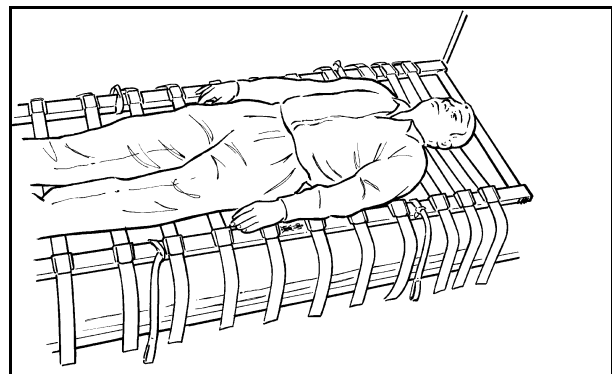


Fig. 49

If required, the straps may be passed under the pillow, keeping it under the patient's head for added comfort (see Fig. 50).

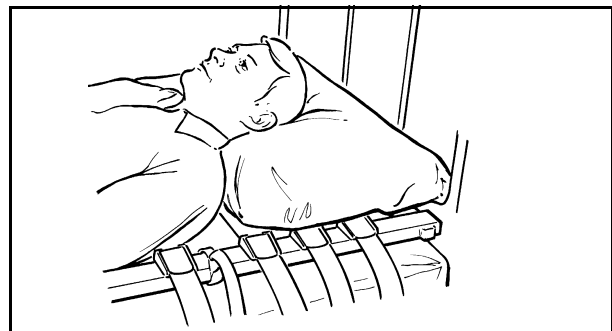


Fig. 50

**CAUTION: If they are not already attached, fix the four suspension straps in the positions indicated by labels on the side sections of the frame (see Fig. 51).**

# Using your Maxi Move

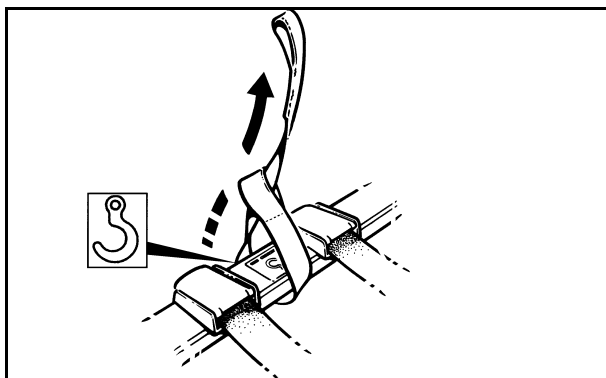


Fig. 51

**WARNING:** Especially with obese patients, or under buttocks, take care not to trap any skin while feeding the strap under the patient.

Continue until all the straps are under the patient and through the clamps. Press each clasp fully down (see Fig. 43 and 46) to ensure that each strap is pulled tight and locked into position.

All cross straps must enter directly into the clamps, and must not be passed around the side section (see Fig. 43).

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

Before a patient is lifted, it is essential that all the cross straps are locked into the clamps and positioned correctly as shown in Fig. 45, and that all the suspension straps are securely attached to the correct support hooks on the stretcher frame.

Bring the lift towards the bed and center the stretcher frame over the patient, so that the suspension straps can be securely attached over the hooks, as shown on the hook icon label in Fig. 52.

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

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

Once the strap stretcher is connected, operate it to lift the patient clear of the bed. Then rotate the stretcher frame until the patient's feet are close to the mast. In this position, the complete unit may be moved through wide doorways. Otherwise, leave the stretcher at 90° to the chassis legs. In this position the lift and patient can be moved through a doorway sideways.

**WARNING:** It is essential to keep the patient at approximately the height of the bed to ensure stability of the unit and to maintain patient/attendant contact.

When lowering the strap stretcher frame, ensure that both the patient's or attendant's legs and feet are clear of the moving mast.

Strap and Scoop Stretcher  
Connection Hook Positions

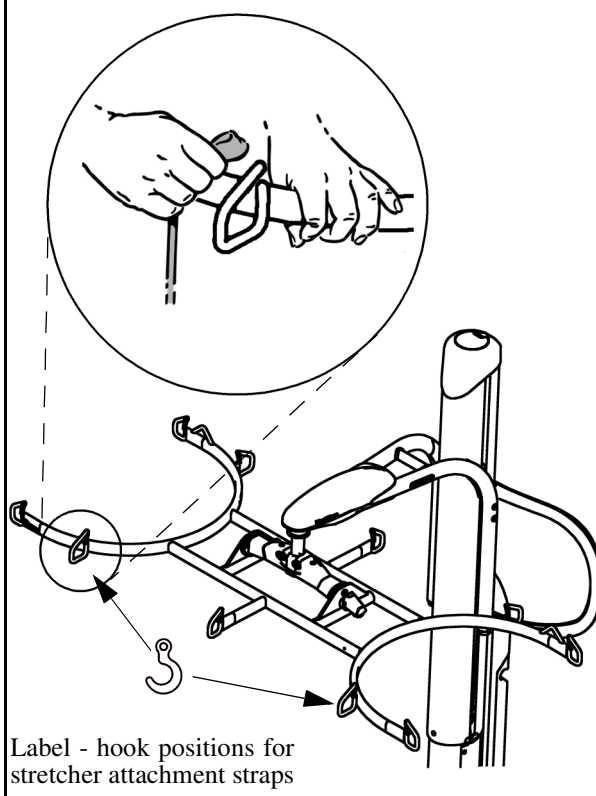


Fig. 52

Individual patient support cross straps can be loosened and removed for access to any part of the patient.

**CAUTION:** To ensure that the patient is securely supported, do not remove too many straps at one time.

When the patient is returned and lowered onto the bed, the strap stretcher can be removed once it has been disconnected from the stretcher frame. To do this, loosen all the clamps on one side section and gently pull each strap through under the patient. Disconnect and remove the frame and store carefully for future use.

# Scale

## Patient Scale Information

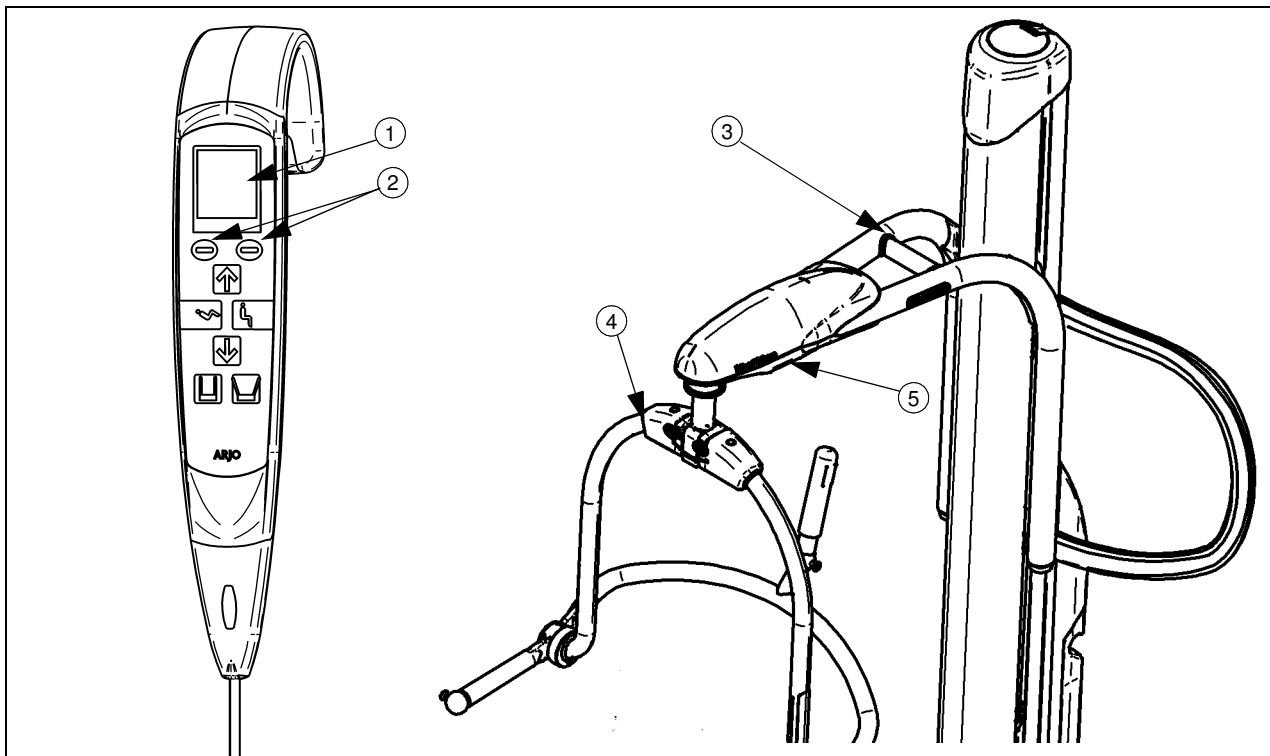


Fig. 54

### Key to Scale (Fig. 54)

1. Scale display on handset
2. Operating buttons on handset
3. Jib
4. Spreader bar
5. Load cell cover

**WARNING: The scale has been designed to weigh hospital or care facility patients under the supervision of trained nursing staff. Avoid any other uses.**

If your Maxi Move has been equipped with an ARJO scale, your lift will have the added advantage of being able to weigh patients once they have been lifted.

- 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.
- Calibration counter
- Gravity configuration counter
- A seal bearing the identification and number of the inspection body.

### Descriptive Marking/Seals C.E. Units only

After inspection, the following marks will be found on the scale label (see Fig. 55):

- 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).

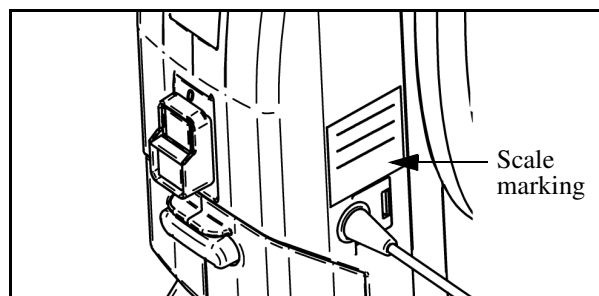


Fig. 55

# Scale

## Reinspection

Reinspection of approved weigh scales must be carried out in accordance with the rules stipulated by local authorities (as specified by each country).

If the seals are broken such as during repair or replacement of the scale's circuit board or load cell, then the entire floor lift must be disqualified and not used again until a reinspection has been carried out by a certified inspection body.

## Display Symbols/Functions

The handset has an LCD which displays various numbers and symbols.

The LCD screen can display weight in pounds or in kilograms.

The minus sign (-) shows when the weight is negative (see the section "Method B - Weighing With the Patient Already Suspended in the Sling").

The scale can also display weight in Gross Weight and Net Weight modes.

Additional features include the battery charge indicator and preventative maintenance indicators.

## Overload Warning Symbol

When the load is above the safe working load (SWL) for the scale, the scale unit will display alternating large and small images of the scale symbol (see Scale User Manual).

This warning is displayed according to the following weight limits:

For the standard jib: Load exceeding 227.9 kg

For the Extended jib: Load exceeding 130.9 kg

If the scale is overloaded, remove the load immediately. Do not move the scale/lift until the symbol is switched off.

**CAUTION: Do not overload the scale. If the scale unit displays alternating large and small images of the scale symbol, lower the patient immediately onto a bed or into a chair.**

**NOTE: FOR EUROPEAN SCALES ONLY, if the display shows the larger "TILT" symbol alternating with the scale symbol, relocate the Maxi Move to a level position so that the scale can be operated correctly (see Fig. 56).**

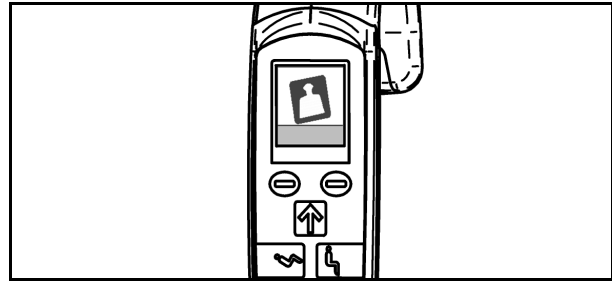


Fig. 56

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

**WARNING: If the patient is agitated, the attendant should wait until the patient calms down before attempting to weigh.**

Gross weight refers to the zero weight reference at power up. Net weight is defined as the value of a load determined by the "tare" function, that allows to set the scale's display to zero when the load is suspended on the the jib.

There are two methods for weighing the patient:

**CAUTION: Immediately after power-up, the scale requires a warm-up period to reach an accurate zero reading. Do not attempt to weigh the patient before the scale displays "0.0".**

## Method A - Weighing Before the Patient is Suspended in the Sling

1. Turn on the Maxi Move by pressing the power button.
2. If the sling has already been installed on the spreader bar at start-up, the Maxi Move has already zeroed automatically and taken the weight of the sling into account (see Fig. 57).

Move ahead to step 4.

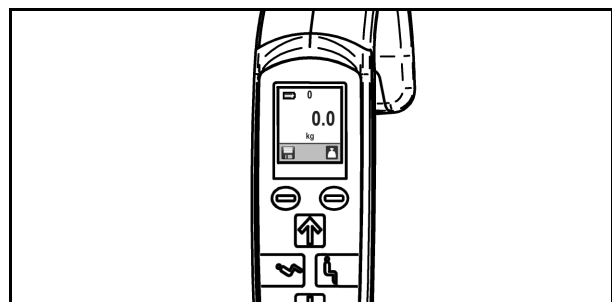


Fig. 57

# Scale

If the sling was not already hung on the lift at start-up, install the sling. The scale will now show the weight of the sling on the screen (see Fig. 58).

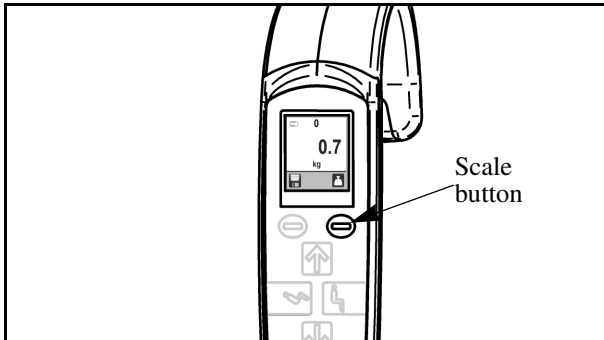


Fig. 58

3. Press the “scale” button to zero the scale. Now the display will show a zero weight (see Fig. 59).

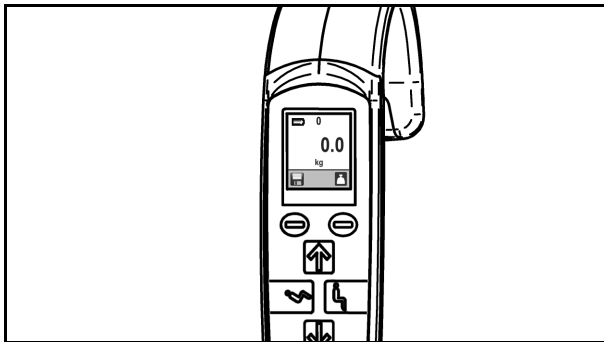


Fig. 59

4. Lift the patient until obstructions are cleared, such as the bed, chairs, the floor, etc. Allow the weight reading to stabilize.

Do not press the button again; the number displayed will be the patient’s weight (see Fig. 60).

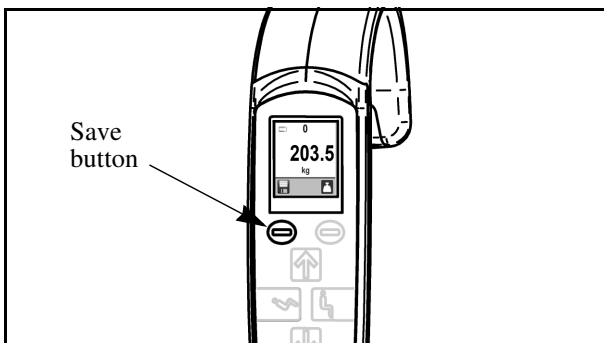


Fig. 60

5. Press the save button if the net weight needs to be kept in memory. Horizontal bars will appear above and below the digits on the screen to show that the save function is activated. “Save” will stay active until the save button is pressed again (see Fig. 61).

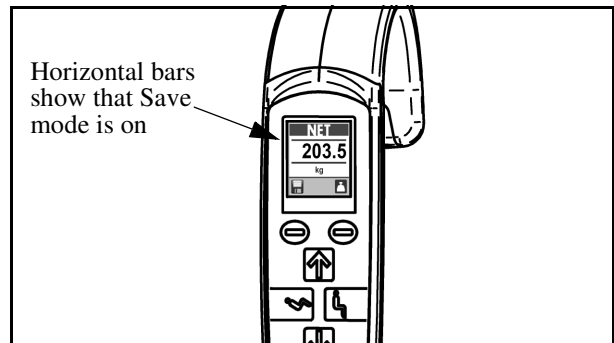


Fig. 61

## Method B - Weighing with the Patient Already Suspended in the Sling

If the patient is already on the lift, and a weight measurement is needed, ensure that the patient is suspended free and clear of any obstructions such as the bed, chairs, the floor, etc.

1. Press the scale button to obtain a zero reading on the display (see Fig. 62).

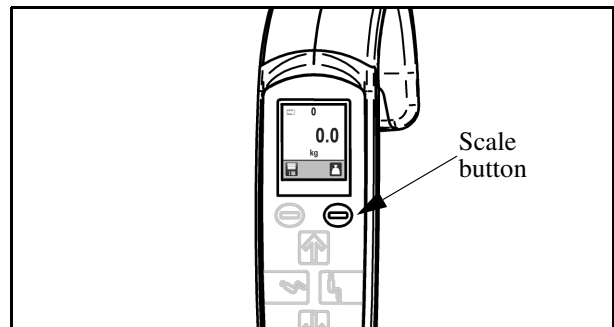


Fig. 62

2. Complete the transfer of the patient and remove the patient from the lift. The scale will display a negative number (see Fig. 63).

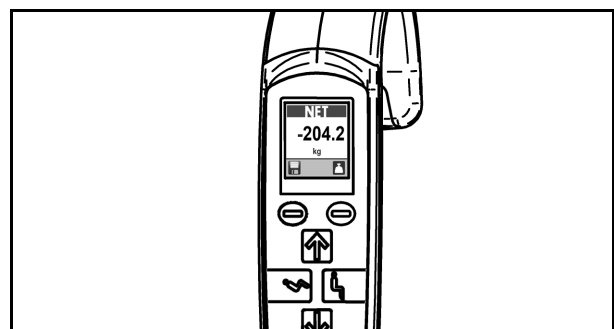


Fig. 63

# Scale

- Reinstall the sling back on the Maxi Move. Ignore the minus sign preceding the digits on the screen. Allow the weight reading to stabilize. The weight shown is the patient's actual weight (see Fig. 64).

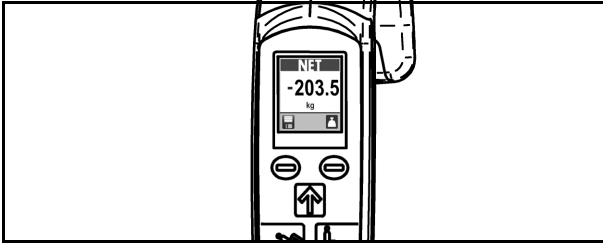


Fig. 64

- Press the save button if the net weight needs to be kept in memory. Horizontal bars will appear above and below the digits on the screen to show that the save function is activated. "Save" will stay active until the save button is pressed again

**CAUTION: If the unit is reset while the patient is still suspended in the sling, the scale will move out of its zero range and display "8888.8" to indicate an error status. Remove the patient from the Maxi Move and reset the unit.**

## Units of Measure

The unit of measure is set in kilograms for Europe and can't be changed. For non-European instruments, the unit of measure can be set in either "kg" or "lb".

- At start-up, press both operating buttons for the scale at the same time (see Fig. 65).

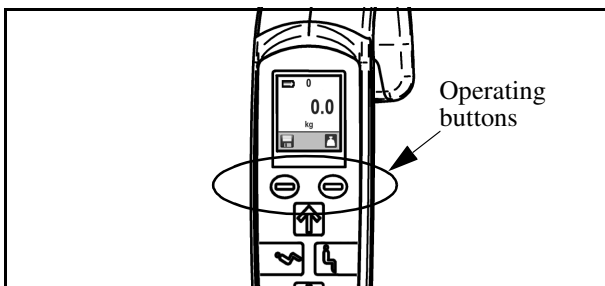


Fig. 65

This will access the Hoist Status screen. Two crossed wrenches will be displayed in the center of the screen. Up and down arrows will also appear at the top and bottom of the screen (see Fig. 66).

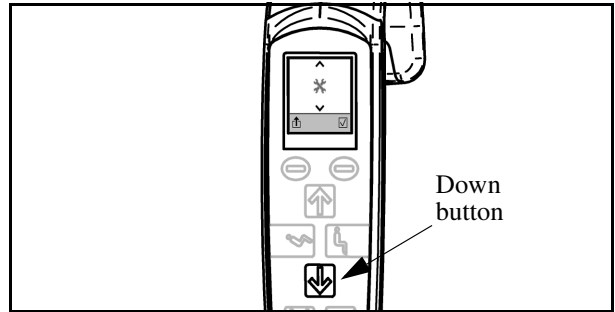


Fig. 66

- Next, press the Down button to access the configuration menu.

The scale icon will replace the crossed wrenches in the center of the screen (see Fig. 67).

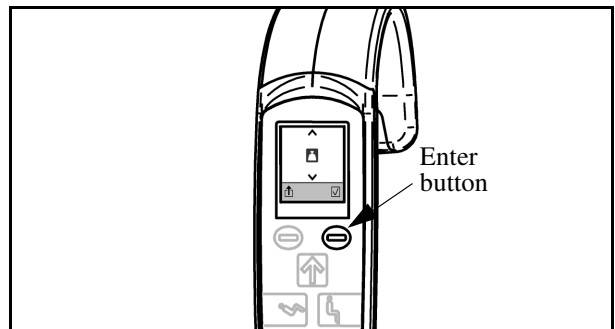


Fig. 67

- Press the Enter button to access the units of measurement option. The units of measurement "kg" or "lb" will replace the scale icon in the middle of the screen (see Fig. 68).

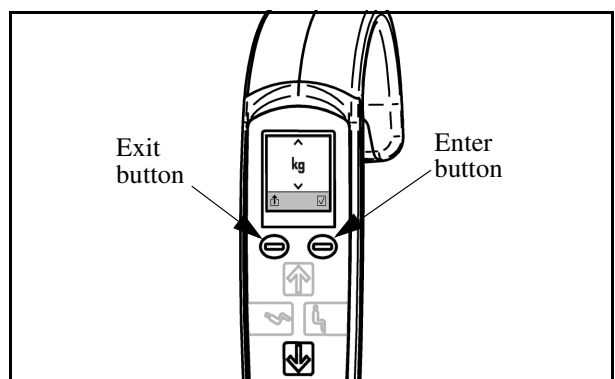
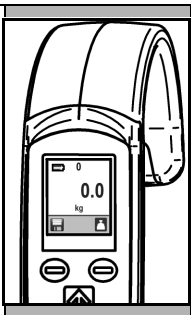
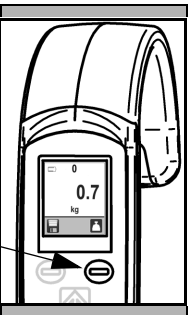
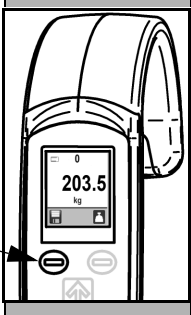
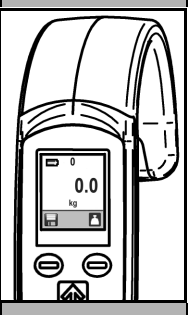
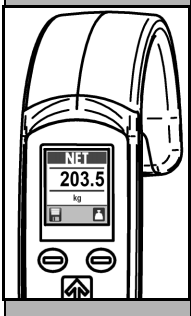
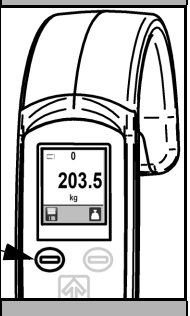

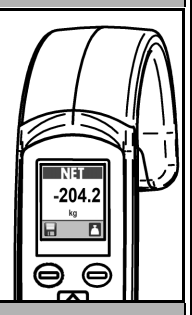

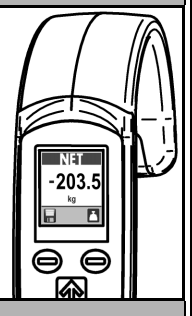

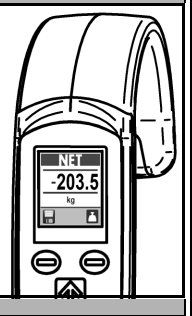

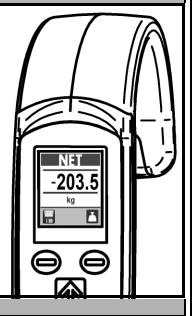

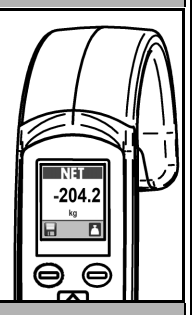

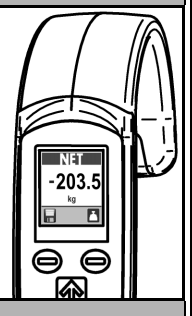

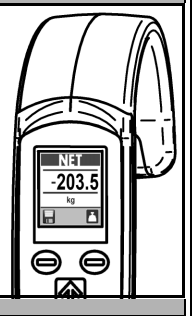

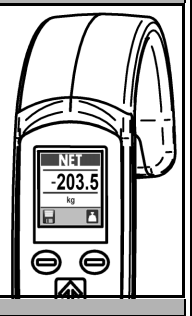

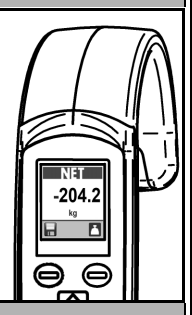

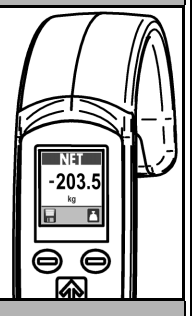

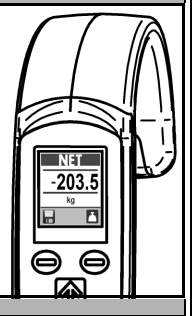

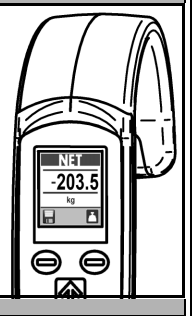


Fig. 68

- Press the Down button to switch between "kg" and "lb".
- To save settings and return to normal mode, press the Enter button. To exit without saving changes, press the Exit button.



# Scale - Handset Instructions Mini-Guide

METHOD A		METHOD B	
<b>AT START-UP</b>		<b>AT START-UP</b>	
With sling <u>already</u> on the spreader bar		With sling <u>not yet</u> on the spreader bar	
<b>STEP 1</b>		<b>STEP 1</b>	
The unit has already zeroed automatically, and the weight of the sling has been taken into account.		Add the sling to the spreader bar. The display will show the weight of the sling.	
<b>STEP 2</b>		<b>STEP 2</b>	
Weigh the patient. The number on the display is the patient's actual weight.		Press the scale button to tare. Now the display will show a zero weight.	
<b>TO SAVE DATA</b>		<b>STEP 3</b>	
Press the save button to keep the displayed measurement on screen. Press the save button again to go back to normal use.		Weigh the patient. The number displayed will be the patient's actual weight.	
<b>TO SAVE DATA</b>		<b>STEP 3</b>	
Press the save button to keep the displayed measurement on screen. Press the save button again to go back to normal use.		Complete the transfer and remove the patient from the lift. The reading on the display will become a negative number.	
<b>TO SAVE DATA</b>		<b>STEP 3</b>	
Press the save button to keep the displayed measurement on screen. Press the save button again to go back to normal use.		Install the sling back onto the spreader bar. Ignore the minus sign. The reading on the display is the patient's actual weight.	
<b>TO SAVE DATA</b>		<b>STEP 3</b>	
Press the save button to keep the displayed measurement on screen. Press the save button again to go back to normal use.		Press the scale button to obtain a zero reading on the display.	
<b>TO SAVE DATA</b>		<b>STEP 3</b>	
Press the save button to keep the displayed measurement on screen. Press the save button again to go back to normal use.		Press the scale button to tare. Now the display will show a zero weight.	
<b>TO SAVE DATA</b>		<b>STEP 3</b>	
Press the save button to keep the displayed measurement on screen. Press the save button again to go back to normal use.		Complete the transfer and remove the patient from the lift. The reading on the display will become a negative number.	
<b>TO SAVE DATA</b>		<b>STEP 3</b>	
Press the save button to keep the displayed measurement on screen. Press the save button again to go back to normal use.		Install the sling back onto the spreader bar. Ignore the minus sign. The reading on the display is the patient's actual weight.	
<b>TO SAVE DATA</b>		<b>STEP 3</b>	
Press the save button to keep the displayed measurement on screen. Press the save button again to go back to normal use.		Press the scale button to obtain a zero reading on the display.	
<b>TO SAVE DATA</b>		<b>STEP 3</b>	
Press the save button to keep the displayed measurement on screen. Press the save button again to go back to normal use.		Press the scale button to tare. Now the display will show a zero weight.	
<b>TO SAVE DATA</b>		<b>STEP 3</b>	
Press the save button to keep the displayed measurement on screen. Press the save button again to go back to normal use.		Complete the transfer and remove the patient from the lift. The reading on the display will become a negative number.	
<b>TO SAVE DATA</b>		<b>STEP 3</b>	
Press the save button to keep the displayed measurement on screen. Press the save button again to go back to normal use.		Install the sling back onto the spreader bar. Ignore the minus sign. The reading on the display is the patient's actual weight.	
<b>TO SAVE DATA</b>		<b>STEP 3</b>	
Press the save button to keep the displayed measurement on screen. Press the save button again to go back to normal use.		Press the scale button to obtain a zero reading on the display.	
<b>TO SAVE DATA</b>		<b>STEP 3</b>	
Press the save button to keep the displayed measurement on screen. Press the save button again to go back to normal use.		Press the scale button to tare. Now the display will show a zero weight.	

# Scale - Handset Instructions Mini-Guide

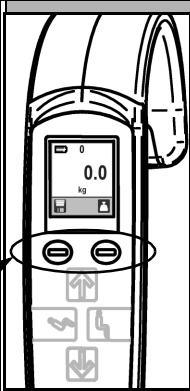
## CHANGING THE UNITS OF MEASURE

### AT START-UP

#### STEP 1

To display the Hoist Status Screen, press both operating buttons at the same time.

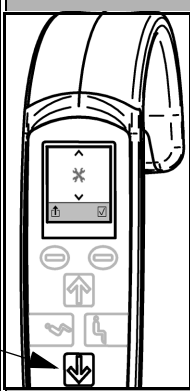
Operating buttons



#### STEP 2

To access the configuration screen, press the down button on the handset. The first screen displayed will be the Weight Unit screen.

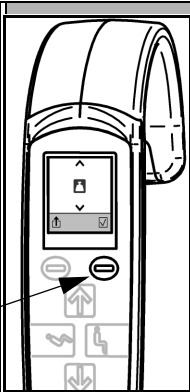
Down button



#### STEP 3

Press the save button to keep the displayed measurement on screen. Press the save button again to go back to normal use.

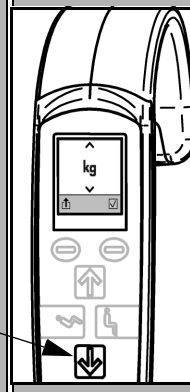
Enter button



#### STEP 4

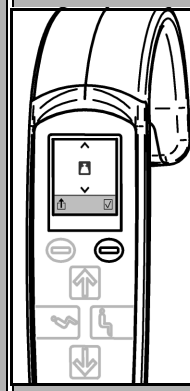
To switch between kg and lb, press the down button.

Down button



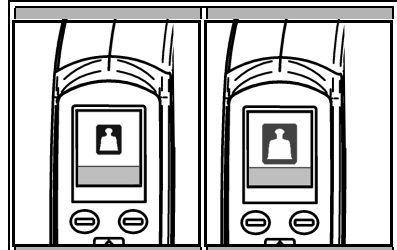
#### STEP 5

To save settings and return to normal use, press the enter button.



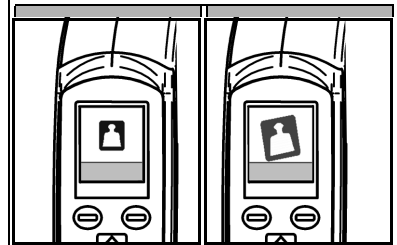
## WARNING SCREENS

### OVERLOAD WARNING



The display will show alternating large and small scale symbols. Lower the patient immediately.

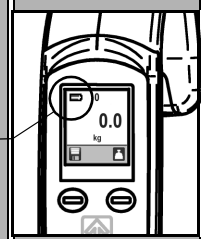
### TILT WARNING (FOR EUROPEAN SCALES ONLY)



The display will alternate the scale symbol with a larger tilt symbol. Relocate to a level floor and try weighing again.

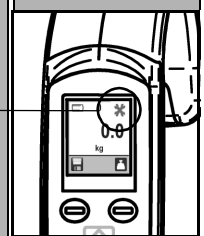
### LOW BATTERY

The top left hand corner of the display will show a low battery symbol. Recharge batteries as soon as possible.



### OTHER WARNINGS

The display will show crossed wrenches on the top right corner. Contact an ARJO technician for service.



(continued next column)

# Scale - Handset Instructions Mini-Guide

The Maxi Move has a battery charge indicator feature with the control handset. The battery charge level automatically appears on the LCD soon after the initial start-up, or after returning from sleep mode (see Fig. 69).

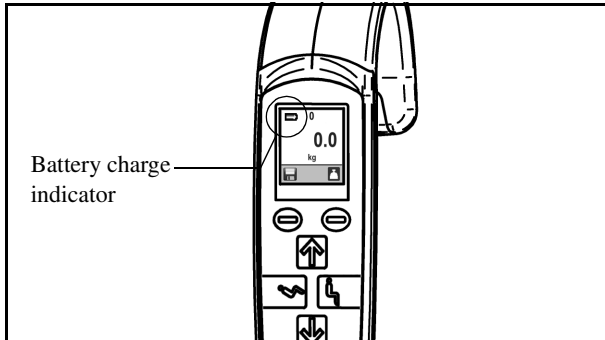


Fig. 69

To prolong the life of the batteries, it is recommended that the battery pack be recharged on a regular basis, before the batteries reach a low state of charge. Care should be taken so that the batteries are not drained unnecessarily.

The battery indicator on the control handset will show if the batteries for the Maxi Move are close to being completely empty (see Fig. 70). At that point, very few transfers will be possible and the batteries should be recharged as soon as possible.

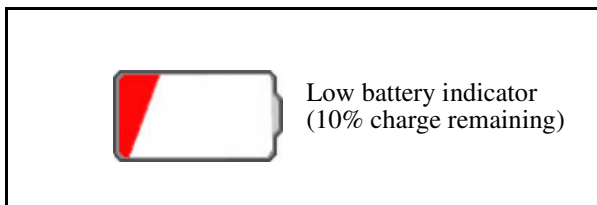


Fig. 70

If the batteries are completely drained, the lift will automatically go into sleep mode. With any attempt to use the lift, the unit will beep 3 times, and the handset will briefly display the low battery icon. The lift will then return to sleep mode and will not be operable unless the batteries are recharged.

## Battery Pack

The battery pack is medically approved according to EN 60601-1, CAN/CSA-C22-2, No. 601-1 M90 and UL 2601-1. Battery life is variable (2-3 years) and is influenced by proper charging practices and load exertion.

## Removing the Battery Pack

**WARNING: Batteries need to be charged for a minimum of 8 hours prior to the initial use of the lift.**

When the battery charge indicator on the control handset displays the low battery icon, complete the lift cycle. Then take the lift to a convenient location and remove the battery pack. The removable battery pack reduces the time your lift is out of service because of discharged batteries. To remove a discharged battery pack, push the red button and pull straight out towards you (see Fig. 71). Replace the pack with a fully charged one from the wall mounted charging unit.

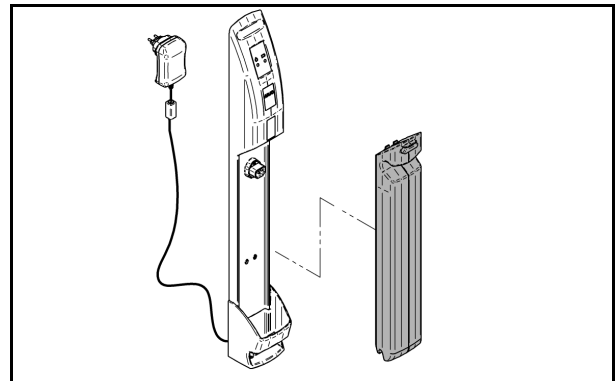


Fig. 71

## Charging your Battery

The Maxi Move uses sealed lead-acid batteries mounted below the control box. Lead-acid batteries are not subject to a memory effect. Therefore, they need not be completely drained before being recharged. The control box is equipped with an automatic control shut-off after 20 seconds of inactivity to prevent any battery drainage while the lift is in the stand-by mode. Power to the lift is reactivated by pushing any handset or control panel button.

It is recommended that the battery pack be removed from the lift when it is not used for an extended period of time, and recharged when the battery discharge indicator on the control handset display shows a low battery indicator.

To prolong the life of the batteries, recharge them before they reach a low level of battery charge.

Your lift is equipped with an audible warning device, which will make a noise when the battery discharge indicator on the handset displays a low battery icon.

To ensure that the Maxi Move is always ready for use, it is recommended that a fully charged battery pack always be on hand. Do this by having additional battery packs available and keeping one charging while the other is in use.

When a fully charged battery pack is inserted into the lift, the display on the handset will show a green fully charged battery. However, if a partially charged battery is inserted, the handset will reflect the corresponding battery level status.

# Care of your Maxi Move

## Recharge the battery as follows:

1. When the handset display shows a low battery icon, complete the lift/lower cycle and remove the battery pack.
2. Insert the battery pack into the charger unit and push it in firmly. The green LED should already be on, showing that the charger is powered. The charging connection will be made automatically.
3. The amber LED indicator will flash on and off as the battery pack is being charged. When the battery pack is fully charged, the amber LED will turn solid. The battery pack is then ready for use. Discharged batteries should take approximately eight hours to fully recharge.
4. When the batteries are fully charged, remove the pack from the charger, and insert it back into the Maxi Move. An electrical connection is made automatically.
5. Press the power button. The Maxi Move is ready for use.

**WARNING: Hold the pack firmly to ensure that it does not drop and become damaged or cause personal injury.**

**WARNING: Do not place or store the battery pack under direct sunlight or near a heat source. Do not expose the batteries or the battery charger to flames.**

A good protocol to follow can include having fully charged batteries ready for the start of every work shift.

For recycling and disposal of the battery packs, the rules according to local regulations must be followed. If not, they may explode, leak and cause personal injury. When returning batteries, insulate their terminals with adhesive tape, otherwise, the residual electricity in used batteries may cause fire or explosions. The following diagram shows the symbols for disposal and recycling (see Fig. 72).

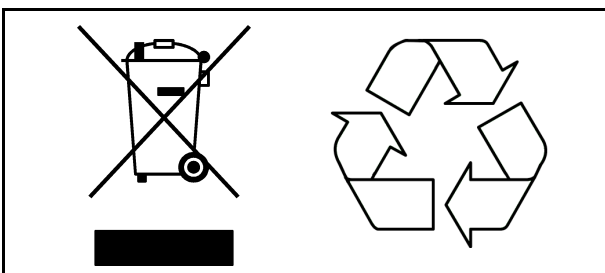


Fig. 72

## Battery and Battery Charger Safety Practices

- The charger is for indoor use only, and should be used in a dry environment. Do not use it in a bathroom.
- Do not charge batteries in unventilated areas.
- The battery charger must not be covered or exposed to dust. The metal contacts must be kept clean.
- The battery charger is for use only with Maxi Move batteries that are supplied by ARJO.
- The battery pack may stay connected to the charger unit when it is fully charged without damage.
- Do not short-circuit the battery pack.
- Do not crush, puncture, open, dismantle or otherwise mechanically interfere with the batteries.
- The power socket must be easily accessible. If a faulty condition occurs, switch off the power and remove the plug from the wall socket.
- Do not store battery packs at a temperature higher than 40°C (140°F). Should the battery pack casing crack and cause contents to come in contact with skin or clothing, rinse immediately with water. If content comes in contact with the eyes, rinse immediately with plenty of water and seek medical attention.
- The abbreviation “Pb” shown adjacent to the recycling and trash bin symbols on the battery pack label is the element symbol for lead. It indicates that the battery contains lead, and therefore should not be disposed of, but recycled.

# Care of your Maxi Move

---

The frequency of the following actions depends on how often the equipment is used.

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

## Sling Cleaning and Care

The slings should be checked before and after each patient use and if necessary, washed in strict accordance to the instructions on the sling. This is especially important when using the same equipment for another patient, as it can minimize the risk of cross-infection. Also refer to sling instruction sheet MAX.01510.INT.

Slings should not be classified as linen, but as an accessory to a patient transfer lift and, therefore, are classified as a medical device accessory.

Mechanical pressure, such as rolling or pressing, should be avoided during the washing and drying procedure, as this can damage parts that are vital to the safe and comfortable operation of the sling.

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

It is essential that the slings, sling loops, straps and attachment clips are carefully inspected before each and every use. If the slings, loops or straps are frayed or the clips damaged, the sling must not be used and should be replaced immediately.

## Lift Cleaning and Care

It is recommended that the patient lifting equipment and accessories be cleaned and/or disinfected between each patient use. If the lift and/or equipment need cleaning, or is suspected to be contaminated, follow the cleaning and/or disinfection procedures recommended below before reusing the equipment.

To clean the lift equipment and accessories (except slings), wipe them down with a damp cloth using warm water and “ARJO CLEAN” disinfectant/cleaner or equivalent.

“ARJO CLEAN” disinfectant cleaner is available from ARJO or its approved distributor.

**WARNING: Do not drench the product, as this could damage electrical components and cause internal corrosion.**

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

**Do not use petroleum-based solvents, as this may damage plastic parts.**

To disinfect contaminated lifts, equipment and accessories (except slings), use the preferred method of wiping the product completely with “hard surface disinfectant wipes” which are supplied impregnated with a 70% v/v solution of Isopropyl Alcohol.

Rub the equipment vigorously when using the wipes, to promote an effective disinfection of the lift’s surfaces.

**CAUTION: Cleaning and disinfection products must be used in accordance with the instructions. Wear the appropriate eye, hand and clothing protection at all times when handling disinfectants.**

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

## Mandatory Daily Checks

The Following Checks Should Be Carried out Daily:

- Ensure that the battery pack is always fully charged.
- Ensure that the castors are firmly secured to the chassis.
- Carefully inspect all parts, in particular where there is close 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 the instruction labels are firmly attached and in a readable condition.

## Periodic Testing

Some testing needs to be carried out at weekly intervals. Periodic testing of the various functions is advisable to ensure everything operates properly.

**Test for full and efficient movement of the lift/lower mechanism:** Raise and lower the jib using the control handset. Test the mechanism with the switches on the control panel as well.

**Automatic Stop Function:** With the jib well above its lowest position and the lift positioned over an empty bed, use the handset control to lower the jib onto the bed. When the jib lowering becomes restricted, the motor will stop. Release the handset lower button after a second or two. Use the control handset to raise the jib. Then repeat this test using the control panel. This is to check for the correct functioning of the automatic stop.

**Immediate Stop:** To test the immediate stop function, operate the remote control handset to lift or lower the jib. While operating, press the stop button (see Fig. 8). Powered movement should stop immediately.

Press the power button to reset to the normal function (see Fig. 8). Repeat this test using the control panel. Reset to normal function. Repeat this check for the chassis leg opening/closing function, and reset the power button.

# Care of your Maxi Move

---

**Adjustable Width Chassis Function:** Use the control handset or the control panel to open and close the chassis legs to check for full and efficient movement.

**General Lift Condition:** Perform a general visual inspection of all external parts, and test all functions for correct operation, to ensure that no damage has occurred during use.

**WARNING: If in doubt about the correct functioning of the Maxi Move, do not use it and contact the ARJO Service Department.**

## Servicing Advice

ARJO recommends that the Maxi Move be maintained at regular intervals. See the Maxi Move Preventive Maintenance Schedule (ARJO Literature No.04.KM.01/US).

Under normal use, the following items are subject to wear: slings, batteries, straps and castors. These items must be regularly checked as described previously, and replaced as needed.

**WARNING: UK LIFTS ONLY: Important legislation came into force on 5th December 1998, which has an impact on the schedule of service for your patient lift(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 owner. A schedule of thorough examinations every six months has been developed to comply with the law. Details can be obtained from ARJO Service UK.**

Parts lists and circuit diagrams are available upon request from ARJO or its approved distributors. If required, spare parts are available from ARJO or its approved distributors.

Special tools are required for the replacement of certain components. The simplest, safest and most effective way to maintain your product is to have it methodically and professionally serviced by an ARJO approved representative using ARJO approved spare parts.

For information on service and maintenance contracts, please contact your local ARJO distributor.

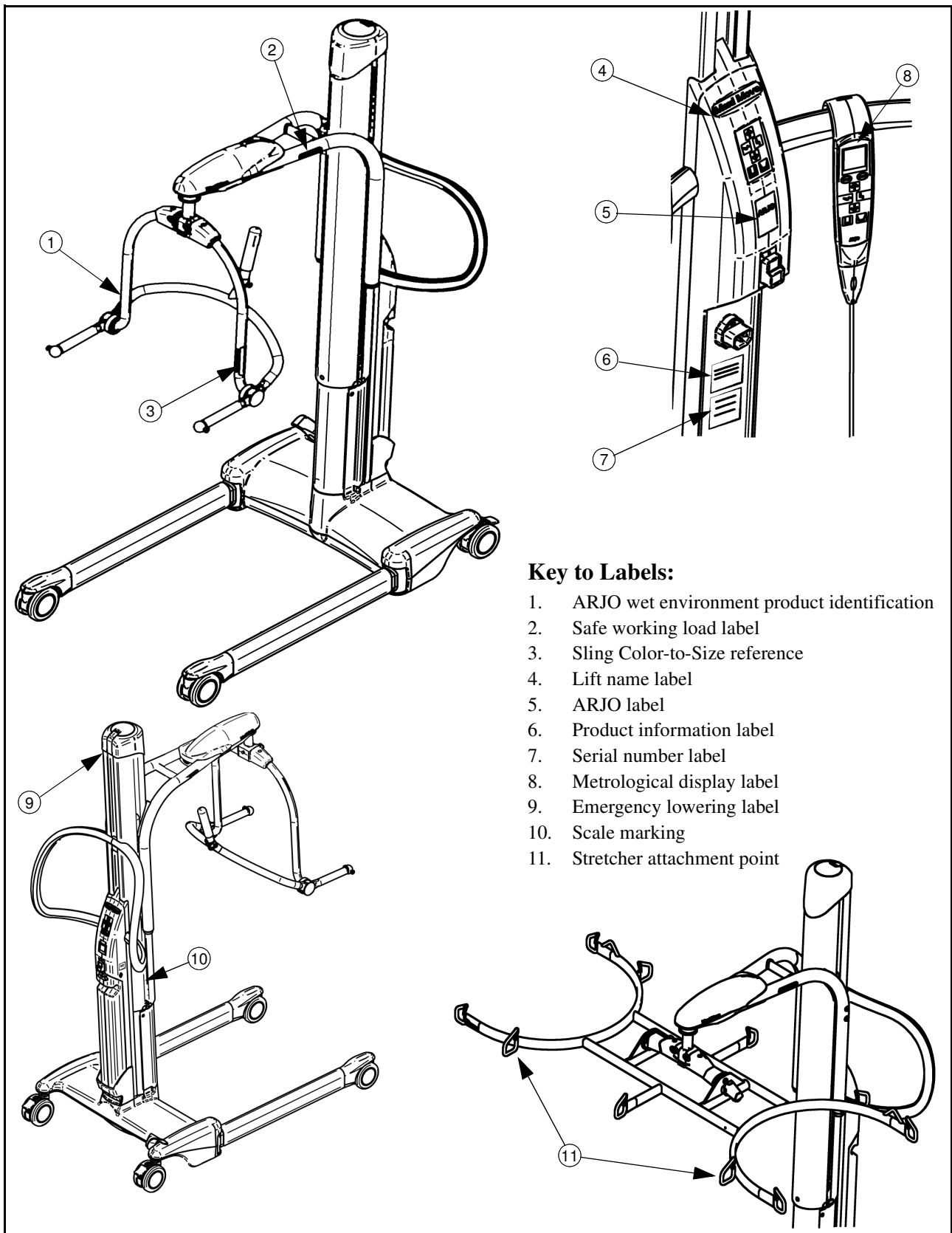
# Troubleshooting

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<b>Lift Trouble</b>	<b>Resolution</b>
Handset does not respond	<ul style="list-style-type: none"> <li>• Check the red stop button on the control box.</li> <li>• Check the connector on handset cord.</li> <li>• Check the battery condition (replace with a fully charged battery pack).</li> </ul>
RAISE and LOWER buttons on control box do not respond	<ul style="list-style-type: none"> <li>• Check the red button on the control box.</li> <li>• Check the battery condition (replace with a fully charged battery pack).</li> </ul>
Powered DPS does not respond	<ul style="list-style-type: none"> <li>• Check the red stop button on control box.</li> <li>• Check if the handset is connected.</li> <li>• Check if the carry bar is correctly installed</li> </ul>
Audible “beep” is heard from the control box	<ul style="list-style-type: none"> <li>• Battery is low. Replace with a freshly charged battery pack.</li> </ul>
Actuator “stalls” during lift	<ul style="list-style-type: none"> <li>• Battery is low. Replace with a freshly charged battery. Do not exceed the lifting capacity.</li> </ul>
<b>Charger Trouble</b>	<b>Resolution</b>
“Power on” light on charger is not lit	<ul style="list-style-type: none"> <li>• Check if the charger is plugged into the wall receptacle.</li> </ul>
Charger is plugged in, but “Power on” light is not lit	<ul style="list-style-type: none"> <li>• Check that there is power to the wall outlet.*</li> </ul>
Yellow indicator does not light when battery pack is inserted in the charger, and the green light is “ON”	<ul style="list-style-type: none"> <li>• Check that the battery pack is properly seated in the charger.</li> </ul>
<b>Battery Trouble</b>	<b>Resolution</b>
Battery pack is properly seated but no lights are visible.	<ul style="list-style-type: none"> <li>• Call for service (charger may be faulty).</li> </ul>
Yellow indicator light does not go off after several hours of charging time.	<ul style="list-style-type: none"> <li>• Battery pack needs replacing. Call ARJO for replacement.</li> </ul>
Battery pack indicates it is fully charged when in the charger, but when placed in the lift, will only do a few lifts.	<ul style="list-style-type: none"> <li>• Battery pack needs replacing. Call ARJO for replacement.</li> </ul>

\* Some power outlets (power receptacles) are controlled by light switches. Ensure that power to the outlet is continuous even when the light switch is turned off.

# Labels



### Key to Labels:

1. ARJO wet environment product identification
2. Safe working load label
3. Sling Color-to-Size reference
4. Lift name label
5. ARJO label
6. Product information label
7. Serial number label
8. Metrological display label
9. Emergency lowering label
10. Scale marking
11. Stretcher attachment point

Fig. 73



# Technical Specifications

## PRODUCT INFORMATION

## Maxi Move

Total weight (standard jib)	63.5 kg (140 lb)
Lifting capacity	Regular jib: 227 kg (500 lb) Extended jib: 130 kg (287 lb)
Battery pack weight	3.8 kg (8.4 lb)
Turning radius	1222 mm (48 in)
Minimum door requirement	717 mm (28.25 in)
Operating forces of controls	2.5- 3N

## ELECTRICAL

Degree of protection	IPx7 - Hand control IPx4 - Maxi Move
Internally powered	24 Vdc
Control voltage output	24 Vdc
Battery charger (part #700.24250) input	100 to 240 Vac
Up and down current limiting	12 ± 1 Amp.
Duty cycle	15% - max. 2 min. continuous use
Sound power level up	61.9 dBA
Sound power level down	61.7 dBA
Medical equipment	Type B protection against electrical shock in accordance with IEC 60601-1

ARJO products meet the requirements of Electromagnetic Compatibility (EMC) as stated in clause 12.5 of the Medical Devices Directive 93/42/EEC. The Maxi Move conforms to UL STD 2601-1, CSA C22.2 No. 60601.1 - M90 (except when being used in conjunction with a stretcher; see "Using your Maxi Move" section on page 24), and ISO 10535:2006.

**WARNING: Radio transmitting devices such as mobile telephones, two-way radios, etc., should never be used near the Maxi Move, since they can interfere with the function of the lift. Cables from potentially strong sources of electromagnetic fields should not be placed near the unit.**

## DIGITAL SCALE SPECIFICATIONS

Weight range	227 kg (500 lb)							
Display resolution and type	0.1 kg (0.2 lb), liquid crystal display							
Accuracy (in service)	<table style="display: inline-table; vertical-align: middle;"> <tr> <td rowspan="3" style="font-size: 3em; vertical-align: middle;">}</td> <td>2-50 kg ±100 g</td> <td>4-100 lb ±0.2 lb</td> </tr> <tr> <td>50-200 kg ±200 g</td> <td>100-400 lb ±0.4 lb</td> </tr> <tr> <td>200-227 kg ±300 g</td> <td>400-500 lb ±0.6 lb</td> </tr> </table>	}	2-50 kg ±100 g	4-100 lb ±0.2 lb	50-200 kg ±200 g	100-400 lb ±0.4 lb	200-227 kg ±300 g	400-500 lb ±0.6 lb
}	2-50 kg ±100 g		4-100 lb ±0.2 lb					
	50-200 kg ±200 g		100-400 lb ±0.4 lb					
	200-227 kg ±300 g	400-500 lb ±0.6 lb						

## OPERATION AND STORAGE CONDITIONS

Ambient temperature range (lift)	Operation: 10° to 40°C (+50 to +104 F) Storage: - 40° to 70°C (-40 to 158F)
Ambient temperature range (batteries)	Operation: 10° to 40°C (+50 to +104 F) Storage: -15° to 40°C (+5 to +104 F)
Relative humidity range	Operation: 30 to 75% Storage: 10 to 80%, incl. condensation
Atmospheric pressure range	Operation: 700 hPa to 1060 hPa Storage: 500 hPa to 1060 hPa

**WARNING: Equipment not suitable in the presence of flammable anesthetic mixture with air or oxygen, or with nitrous oxide.**

## RECYCLING

Battery	Sealed lead-acid, rechargeable, recycleable
Package	Cardboard recycleable
The Lift	Separated and recycled, according to the European Directive 2002/96/EG (WEEE).

# Technical Specifications

## Lift Dimensions

\* Dimensions unloaded can be  $\pm 10$  mm (3/8")

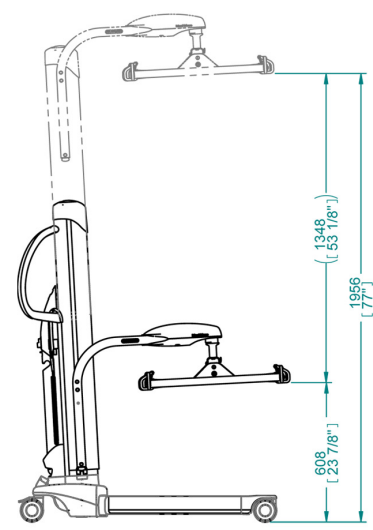
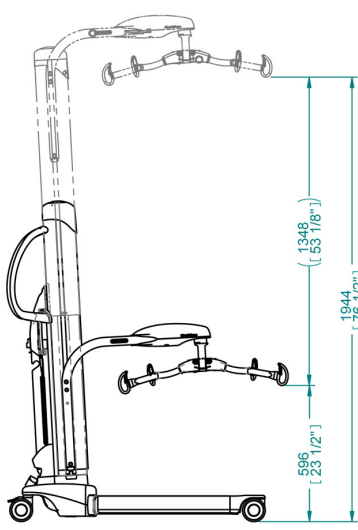
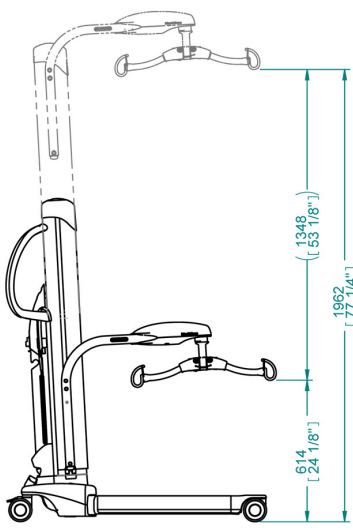
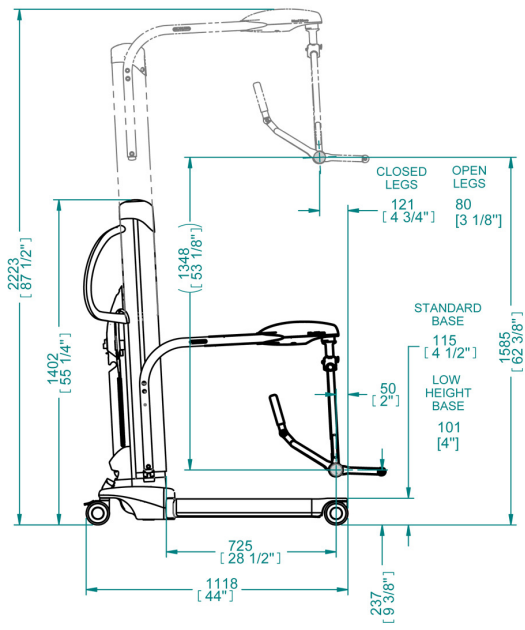
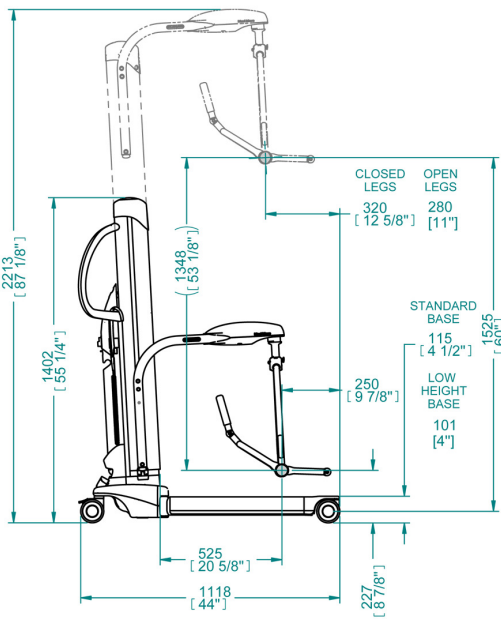
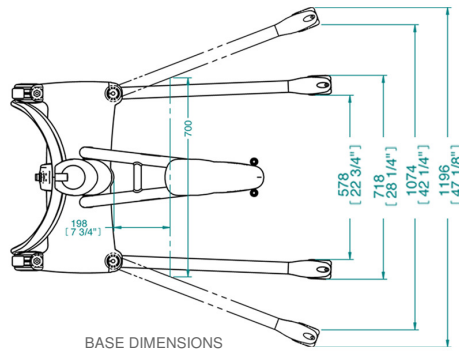


Fig. 74

# Appendix - Scale Gravity Code Configurations

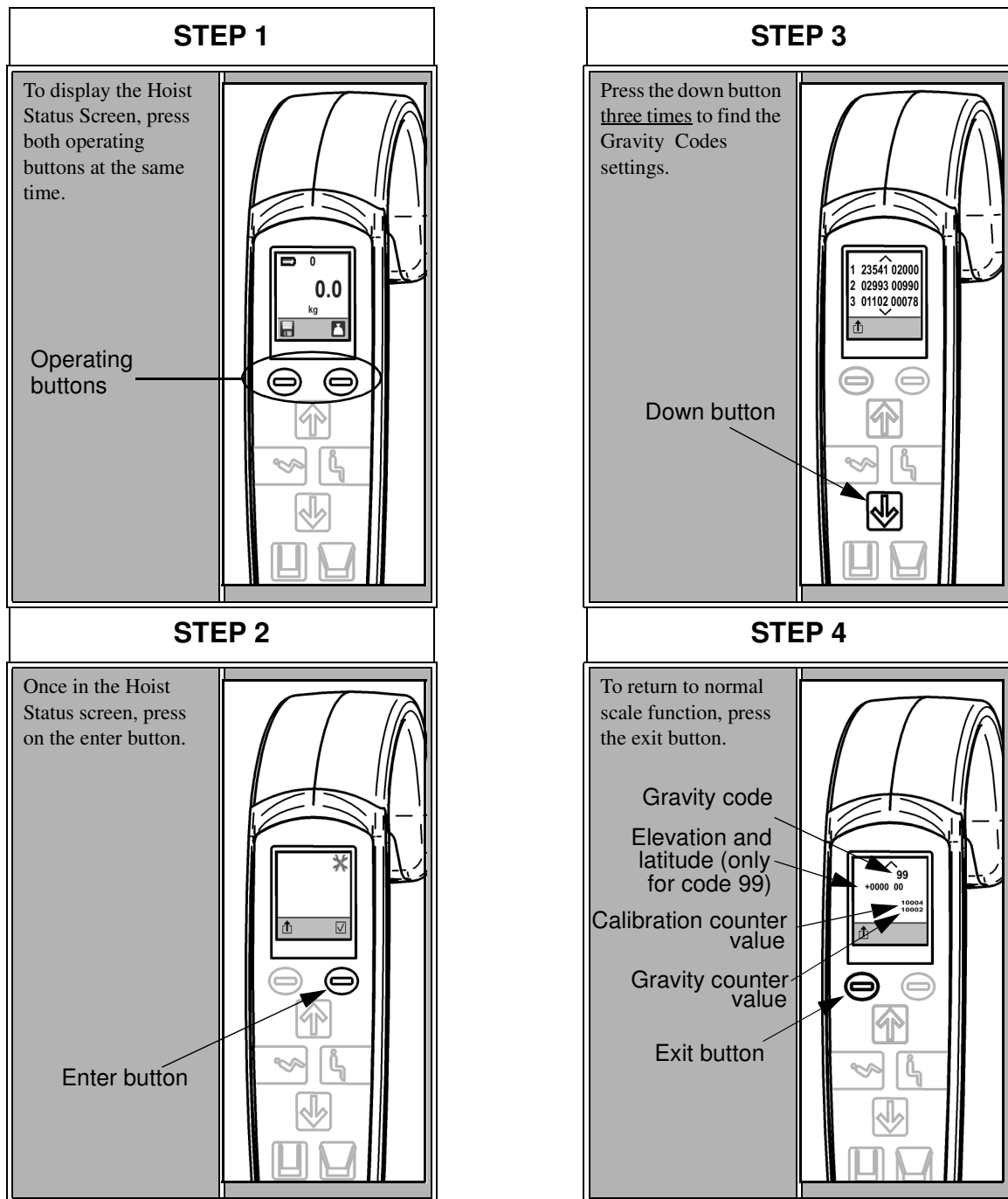
Whenever the Maxi Move floor lifts with scale are sold in Europe, the conformity of the scale with the requirements of the Council Directive 90/384/EEC as ammended, are established by tests referred to in EN45501-8.2. This verification of conformity is valid only for the location of use, since the gravity has been adjusted prior to delivery of the unit and sealed by the calibration and gravity counter on the scale marking.

A two-digit gravity code is assigned to the scale according to the geographical location where it will be used. This code can be viewed by following the step outlined below.

**NOTE: When the preset code is 99, it means that the scale has been adjusted to the exact latitude and altitude corresponding to the specific geographical location where it will be used.**

**NOTE: Gravity codes cannot be changed using the operating menu. Contact your Arjo representative for more information.**

## Viewing the Gravity Code Configuration

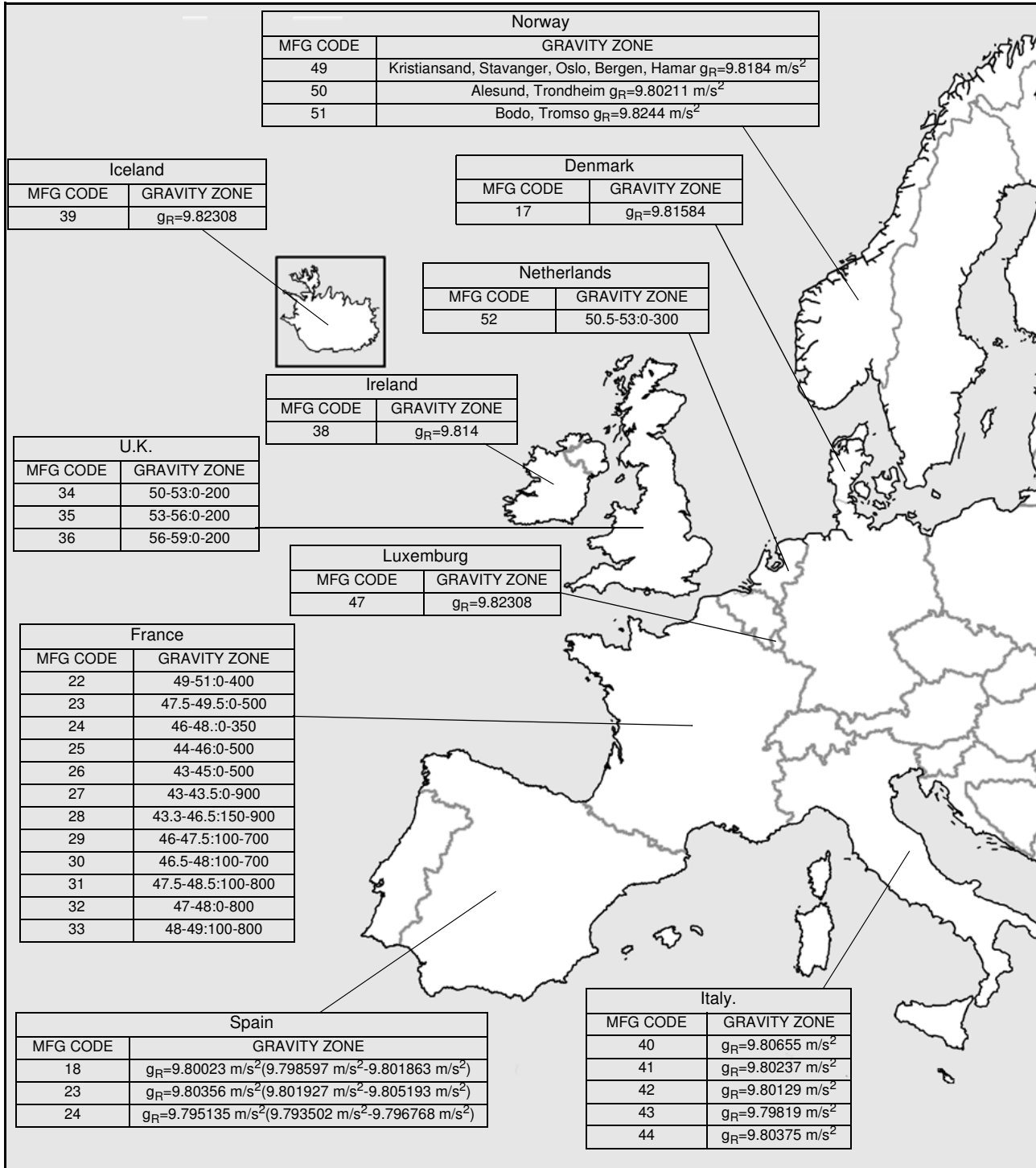


# Appendix - Scale Gravity Code Configurations

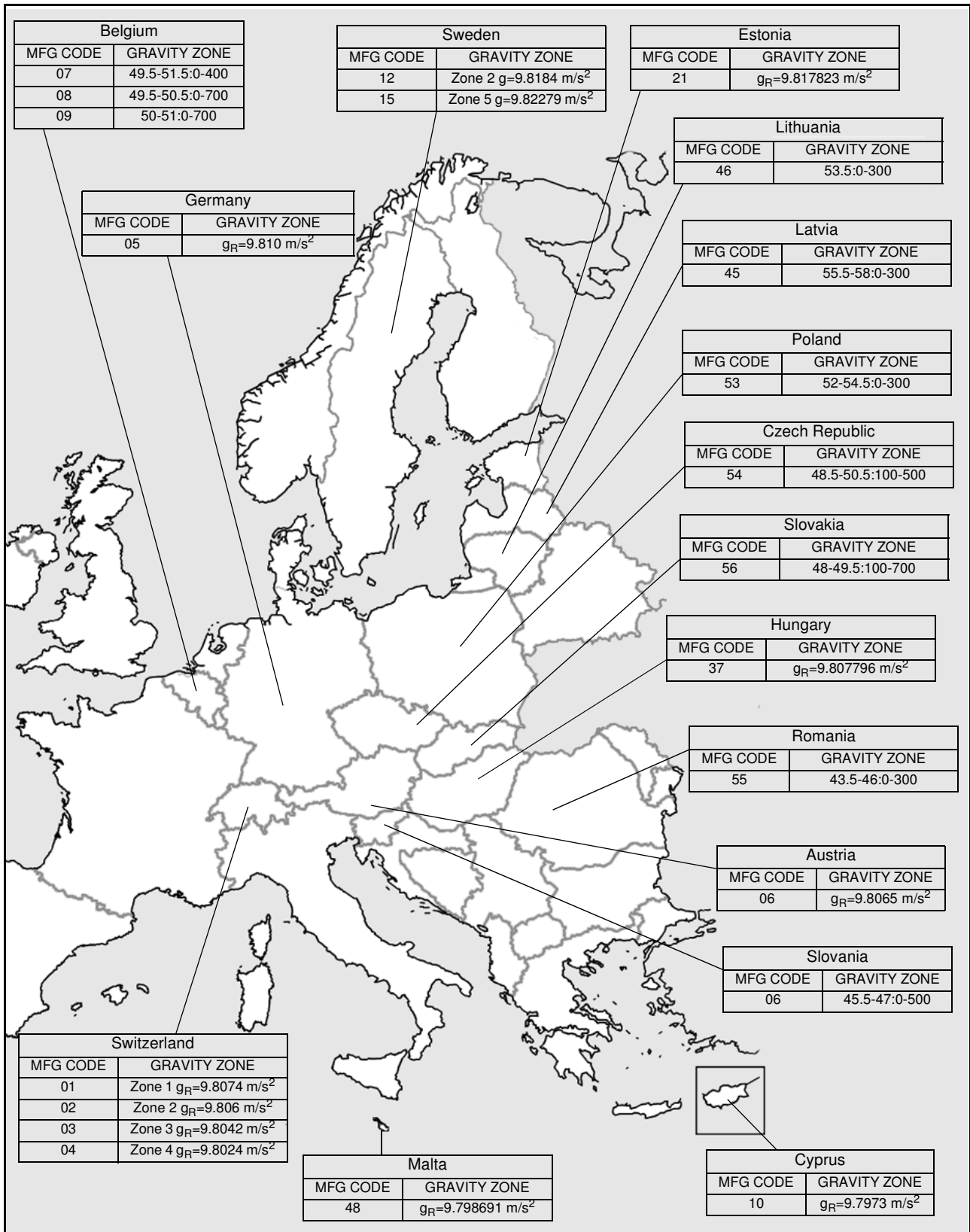
## European Gravity Zones Map

For more detailed information, see the Gravity Adjustment Table on page 46.

The gravity codes (MFG) below and in the following page correspond to countries with their individual gravity zones. The gravity zone tables in the maps specify a region within a country, along with its zone in latitude and altitude, or its corresponding acceleration of gravity.



# Appendix - Scale Gravity Code Configurations



# Appendix - Scale Gravity Code Configurations

## Gravity Adjustment Table

Country	Code	Postal Code*	Gravity Acceleration (m/s <sup>2</sup> )
Austria	06	N/A	9.8065
Belgium 1	07	1000 to 3999 / 5000 to 6599 / 7000 to 9999	9.81052
Belgium 2	08	6600-6999	9.80961
Belgium 3	09	4000-4999	9.81006
Bulgaria	99	Zone not predefined. The coordinates of the location should be known.	
Canada	00	N/A	9.80575
Cyprus	10	N/A	9.7973
Czech Republic	54	N/A	9.8093
Denmark	17	N/A	9.81584
Estonia	21	N/A	9.817823
Finland	99	Zone not predefined. The coordinates of the location should be known.	
France 1	22	02, 08, 59, 60, 62, 76, 80	9.81008
France 2	23	10, 14, 22, 27, 28, 29, 35, 50, 51, 53, 54, 55, 57, 61, 75, 77, 78, 91, 92, 93, 94, 95	9.80858
France 3	24	37, 41, 44, 45, 49, 56, 79, 85, 86	9.80769
France 4	25	16, 17, 24, 33	9.80542
France 5	26	32, 40, 47, 82	9.80452
France 6	27	13, 34	9.80322
France 7	28	03, 23, 69, 87	9.80539
France 8	29	18, 36, 58, 71	9.80654
France 9	30	21, 70, 90	9.80699
France 10	31	52, 88	9.80751
France 11	32	68, 89	9.80722
France 12	33	67	9.80796
France (other)	99	Zone not predefined. The coordinates of the location should be known.	
Germany	05	N/A	9.810
Greece	99	Zone not predefined. The coordinates of the location should be known.	
Hungary	37	N/A	9.80780
Iceland	39	N/A	9.82308
Ireland	38	N/A	9.814
Italy (A)	40	05,06,10,12 to 63	9.80655
Italy (B)	41	00, 01,02,03,04,64,65,66,67,70,71,72,73,74,80,81, 82,83,84,86	9.80237
Italy (C)	42	07,08,09,75,85,87,88,89,90,91,98	9.80129
Italy (AOSTA)	44	11	9.80375
Italy (Sicily 2)	43	92 to 97	9.79819
Latvia	45	N/A	9.81607
Lithuania	46	N/A	9.81439
Luxemburg	47	N/A	9, 8096
Malta	48	N/A	9.798691

# Appendix - Scale Gravity Code Configurations

## Gravity Adjustment Table (Continued)

Country	Code	Postal Code*	Gravity Acceleration (m/s <sup>2</sup> )
Netherlands	52	N/A	9.8118
Norway 1	49	0000 to 5999 / 6700 to 6999	9.8184
Norway 2	50	6000 to 6699 / 7000 to 8999	9.8211
Norway 3	51	9000 to 9999	9.8244
Poland	53	N/A	9.8131
Portugal	99	Zone not predefined. The coordenates of the location should be known.	
Romania	55	N/A	9.8055
Slovakia	56	N/A	9.8083
Slovania	06	N/A	9.8065
Spain 1	18	02,03,04,05,06,07,09,10,11,12,13,14,16,19,21,23,24,28,29,30,34,37,40,41,42,44,45,46,47,49	9.80023
Spain 2	19	01,08,15,17,20,22,25,26,27,31,32,33,36,39,43,48,50	9.80356
Spain 3	20	18,35,38	9.795135
Sweden 2	12	00000 to 82999, except for 82046	9.81840
Sweden 5	15	82046 / 83000 to 99999	9.82279
Switzerland 1	01	see <a href="http://www.metas.ch/SwissGravityZones">www.metas.ch/SwissGravityZones</a>	9.80740
Switzerland 2	02	see <a href="http://www.metas.ch/SwissGravityZones">www.metas.ch/SwissGravityZones</a>	9.80600
Switzerland 3	03	see <a href="http://www.metas.ch/SwissGravityZones">www.metas.ch/SwissGravityZones</a>	9.80420
Switzerland 4	04	see <a href="http://www.metas.ch/SwissGravityZones">www.metas.ch/SwissGravityZones</a>	9.80240
UK (north)	36	KY,FK,PA,PH,DD,AB,IV,KW	9.81685
UK (centre)	35	BB,BD,BL,BT,CA,CH,CW,DG,DH,DL,DN,EH,FY,G,HD,HG,HU,HX,KA,L,LA,LN,LS,M,ML,NE,OL,PR,S,SK,SR,TD,TS,WA,WF,WN,YO	9.81433
UK (south)	34	AL,BA,BH,BN,BR,BS,CB,CF,CM,CO,CR,CT,DA,DE,DT,E,EC,EN,EX,GL,GU,HA,HP,IG,IP,KT,LD,LE,LL,LU,ME,MK,N,NG,NP,NR,NW,OX,PE,PL,PO,RG,RH,RM,SA,SE,SG,SL,SM,SN,SO,SP,SS,SW,SY,TA,TN,TQ,TR,TW,UB,W,WC,WD	9.81172

\*For France, Italy, Spain and the UK, the postal code column provides only the first two digits or letters of the entire postal code concerned.







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