

Mackworth Stand Aid SA160E



User Manual

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Mackworth SA160E - Stand Aid

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1.0 ASSEMBLY INSTRUCTIONS

Mackworth SA160E Stand Aid

1.1 Initial Assembly

1. Remove carefully from the box:

- Boom / Mast assembly
- Base unit with legs attached (Base Unit)
- Battery pack / charging lead
- Hand set control
- Foot Plate
- Document wallet



SAFETY NOTE: Some of the parts are heavy and will need to be lifted with care. Heavier items may need two people to lift. (Please refer to technical details on page 15

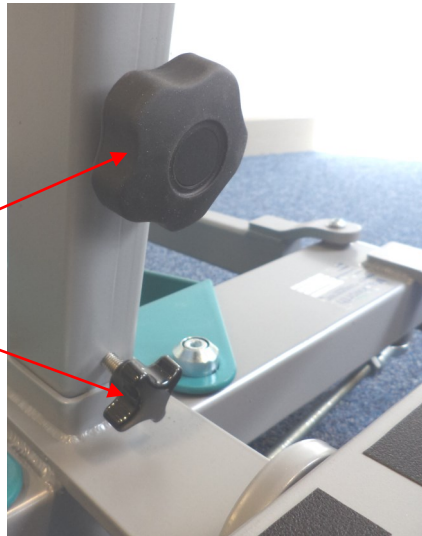
2. Place base unit on level floor surface and lock rear castors.
3. Remove boom/mast assembly from packaging.

1.0 ASSEMBLY INSTRUCTIONS

Mackworth SA160E Stand Aid

4. Carefully take the boom/mast assembly and slide bottom of the mast into the base socket. When the mast is fully engaged into the base, fit both of the 2 mast locking knobs and tighten by hand firmly

Mast locking knobs



SAFETY NOTE: Possible finger trap. Keep fingers away from end of mast when fitting to base unit.

5 The control unit is already fitted to the mast, so assembly is not required. Check the emergency stop button (red button) located on the control box is in the out position (i.e. out)

Emergency stop button

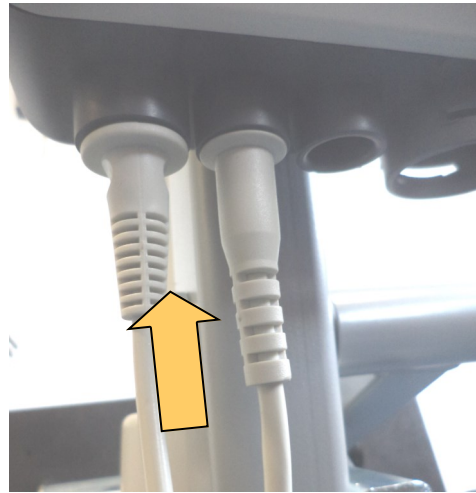


6 Fit the battery pack to the control box making sure it clicks into position in the top of the bracket, as shown.

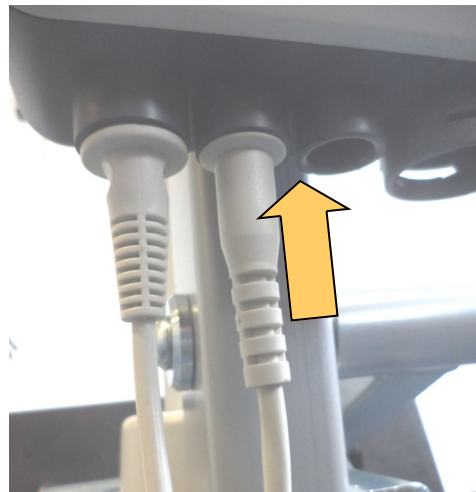


7 Fit the hand control unit to the hand control socket located on the base of the control unit.

NOTE: The hand control lead can only be fitted in one orientation into its socket. Do not use force to insert the hand control into its socket. The plug when correctly inserted should be pushed firmly home.

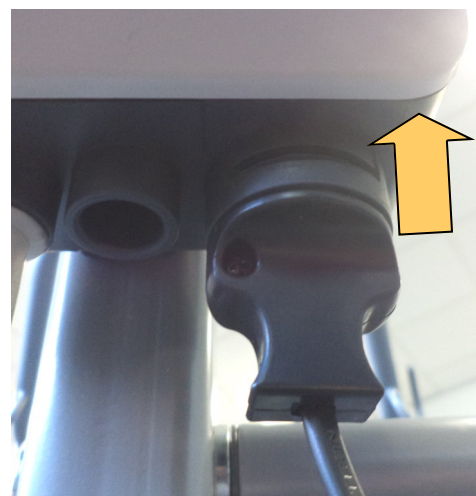


8 Fit the lifting actuator into the socket located on the base of the control unit.



9. Fit the mains cable I into the socket on the underneath of the control unit.

You have a choice where the mains cable can be stored, either away from the hoist or it can be stored at the side of the battery pack / control unit. See page 11.



11. The foot plate is fitted onto the base by locating it onto the 2 location pegs either side of the mast, as shown.



2.0 STAND AID FEATURES

2.1 Emergency Stop Button

During all operations and at all times, the stop button should be in the out position. In the unlikely event of a failure of the handset control, it is possible that the electric ram either continues to lift or continues to lower. This may be overridden by pressing the Emergency stop button to stop the ram. To re-set the button after it has been pressed, simply twist it slightly clockwise and the button will spring outwards.

Emergency Stop Button



NOTE: THE STAND AID WILL NOT OPERATE WITH THE STOP BUTTON PUSHED IN

2.2 Emergency Lowering / raising

Manual emergency lowering is facilitated by turning the emergency lowering ring clockwise. The ring is situated at the top of the actuator where the actuator connects to the mast.

Twist Clockwise to Lower



Electrical emergency lowering: is facilitated by pressing the button on the control box.

Electrical Emergency Lowering Button



2.3 Control Box

The control box has been developed for patient lifting devices and the features that meet the patients needs for a safe and comfortable transfer.

The actuator for the raising / lowering is connected into the bottom of the control box.

To recharge the batteries the hoist is connected to the mains via a mains lead. See page 11 regarding 'Re-charging the batteries'



2.4 Handset

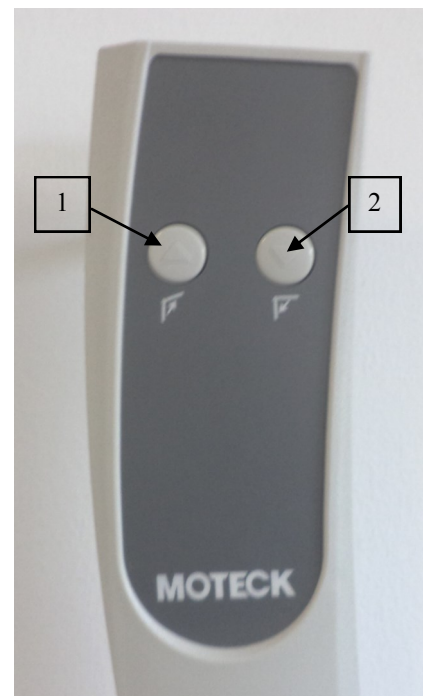
The Stand Aid handset operates 2 functions on the Stand Aid. They are:-

1. Raises the Boom
2. Lowers the Boom

The handset is attached to the control box via a flexible cable that is secured in place with a bayonet type fitting.

The back of the handset has a hook that enables the user to position the handset anywhere on the boom whilst attending to the patient.

Clear and easy to understand button diagrams enable ease of use for the caregiver.



PLEASE READ THE OPERATING INSTRUCTIONS CAREFULLY

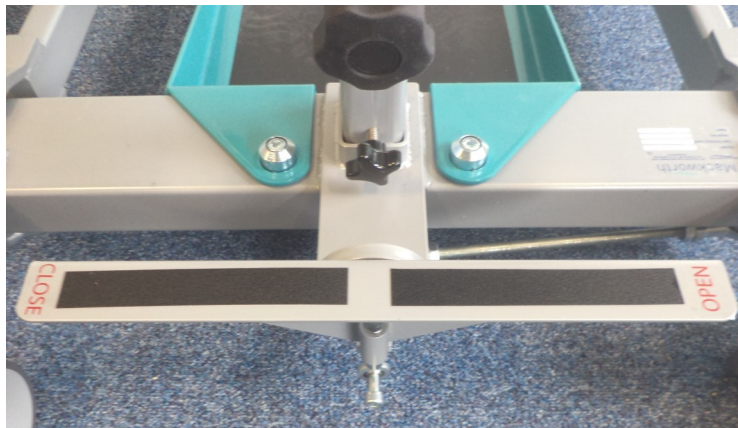
3.0 OPERATING INSTRUCTIONS

Mackworth SA160E Stand Aid

Before use, you should familiarise yourself with use of the Stand Aid the procedure for opening / closing the leg sections and raising and lowering the Stand Aid, including emergency stop/lower and raise functions. Appropriate training in lifting and handling procedures should be undergone by any person operating a Stand Aid or sling, for their own and the clients safety and comfort. These instructions are designed to cover the method of using of the Mackworth Stand Aid .

3.1 To Alter the Leg Width

The legs on the base unit of the Stand Aid are operated by adjusting the leg lever pedal, as shown in the photo below. To open the legs, press on “open” to close the legs, press on “close”. Stand Aid manoeuvres can be completed with the legs in any position.



3.2 Positioning

1. Fit the person to be lifted with a suitable sling. Instruction should be taken in the fitting of slings to ensure maximum safety and comfort. **A full assessment should be carried out by a qualified person and carers should be trained in the correct use. (See sling safety)**
2. Select the leg position required. Position the Stand Aid near to person to be lifted. Assuming you are lifting on a level surface do not use the brakes on the Stand Aid (A documented risk assessment may advise to use the brakes). This allows the Stand Aid to align its self before lifting. Ensure ALL sling loops are attached over the safety hooks.

NOTE: It is recommended to only use the brakes when carrying out lifts on / off the floor, following a risk assessment or when the Stand Aid is not in use & on charge.

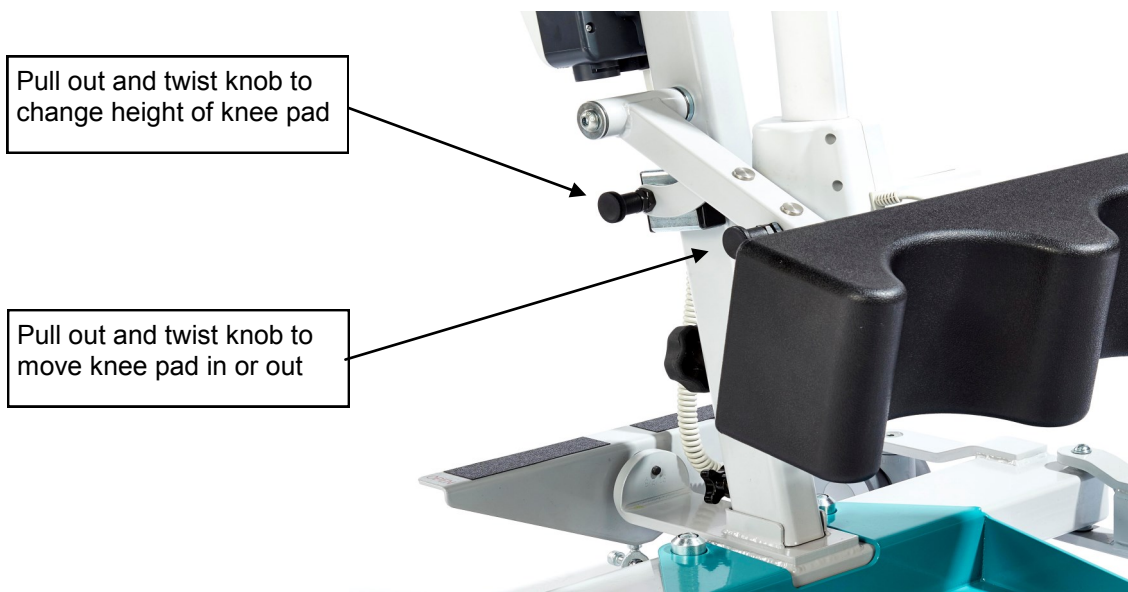
3.3 Knee Pad Adjustment

The knee pad can be adjusted either inwards / outwards or raising / lowering the height.

Moving the Knee pad can be achieved by altering the position of the brackets which hold the knee pad in place.

To move the knee pad in / out, pull out and twist the location pin by the knee pad, then move the knee pad to the required position.

To alter the height of the knee pad, pull out and twist the location pin, then move the knee pad to the required position .



3.4 Raising & Lowering

1. To raise a person press handset button marked with upward facing arrow. When the sling straps become taut before the lift is commenced, check the straps are secure in position over the hooks on the boom before continuing the lift. When the desired height has been reached, release button and the Stand Aid will stop.
2. When moving a person use the mast push handle and walk with the Stand Aid NEVER pull or twist at arms length, this can cause injury to the carer.
3. To a lower person, press and hold handset button marked with downward facing arrow and Stand Aid will descend. When you have reached desired level, simply release button and Stand Aid will stop in that position.

3.5 Batteries:

Re-Charging the Batteries

An audible warning will sound when the batteries need charging and a visual LCD at the bottom of the control box will display empty. A fully charged hoist will display a full battery. Do not continue to use the Stand Aid beyond the lifting operation in progress at the time the warning first sounds.

The batteries are located within the power pack. They are charged through a socket connected to the base of the control unit. When charging is required, the mains lead is plugged into a wall socket outlet and the other end into the control box, as shown on page 5.

NOTE: Emergency Stop Button must be in 'OUT' position when charging

1. Plug the charger main plug into a suitable mains outlet and switch the mains supply ON
2. The amber light will go out once the batteries are fully charged.

Charging is automatic and will fully charge the batteries over a period of eight to twelve hours

NOTE: *Batteries should be kept on charge when the Stand Aid is not in general use. this ensures ready availability of the Stand Aid and prolongs battery life. The internal charger in the control box will not allow the batteries to 'overcharge'. In accordance with battery manufacturers recommendations, all batteries should be fully charged for twenty four hours every four months if in storage or not in regular use.*

NOTE: The Stand Aid will not work if the mains lead is connected to the wall socket.

Before using the stand aid, switch OFF the mains supply and remove the plug from the socket outlet. The charger lead can either be wrapped around the side of the control box, as shown, or stored separately

DO



NOT expose the battery or control box to water

4.0 SAFETY PRECAUTIONS

Please read and follow the safety precautions listed below. The operation and the use of the SA160E Stand Aid is straightforward. These basic safety precautions will help make lifting operations easy and trouble free.

ALWAYS conduct a risk assessment to plan your lifting operations before commencing.

ALWAYS carry out the DAILY CHECK LIST (next section) before using the Stand Aid.

ALWAYS read this manual and familiarise yourself with the operating control and safety features of the Stand Aid before lifting a patient.

ALWAYS check the sling is suitable for the particular patient and is of the correct size and capacity.

ALWAYS fit the sling according to the instructions in the user manual.

ALWAYS check that the safe working load of the Stand Aid is suitable for the weight of the patient.

ALWAYS carry out lifting according to the instructions in the sling user manual.

ALWAYS manoeuvre the lift with the handle provided.

ALWAYS lower the patient to the lowest comfortable position before transfers.

ALWAYS apply the brakes when parking a Stand Aid.

NEVER use a sling unless it is recommended for use with the Stand Aid.

NEVER attempt to manoeuvre the lift by pushing on the mast, boom or patient.

NEVER push a loaded lift at speeds which exceed a slow walking pace.

NEVER push the Stand Aid over uneven or rough ground, particularly if loaded.

NEVER attempt to push or pull a loaded Stand Aid over a floor obstruction which the castors are unable to ride over easily.

NEVER bump the Stand Aid down steps, loaded or unloaded, this will damage the castors.

NEVER attempt to negotiate a loaded Stand Aid on a slope.

SAFETY PRECAUTIONS (continued)

NEVER use a sling which is frayed or damaged.

NEVER disconnect or bypass a control or safety feature because it seems easier to operate the Stand Aid.

NEVER force an operating or safety control. Forcing will only strain or damage the Stand Aid and may compromise safety.

NEVER use Stand Aids in a shower.

NEVER charge an electric lift in a bathroom or shower room.

NEVER allow water to enter hand set or battery control box or use the Stand Aid outside in wet conditions.

NEVER dispose of the battery pack in a fire as this may cause an explosion. These need to be disposed under the W.E.E.E. regulations.

The SA160E's brakes may be left on or off following a risk assessment of the client and the environment

YOUR Stand Aid is for patient lifting. **DO NOT** use it, or allow it to be used for any other purpose.

5.0 SAFETY CHECK LIST

The following checks are those recommended and are supplementary to requirements that may be applicable for current Lifting and Handling and other health and Safety regulations such as The Lifting Operations and Lifting Equipment Regulations 1998 which may have additional requirements to those set out below

5.1 Daily Check List:

The following checks should be carried out daily before using the Stand Aid:

- Make sure the Stand Aid moves freely on its castors
- Make sure that leg opening and closing pedal is functioning correctly
- Examine the sling hooks on the boom for excessive wear
- Raise and lower the Stand Aid by operating the handset If the Stand Aid makes a beeping sound DO NOT USE as the batteries need to be re- charged.
- Ensure the Stand Aid is off charge before use and all leads are fitted correctly in their sockets
- Make sure the mast is fully engaged and the locking nuts are fully tightened
- Examine slings for fraying or other damage. DO NOT use any sling with fraying or damage to the suspension straps or tears in the body of the sling

5.2 Warning Notes

Your Mackworth SA160E Stand Aid has been manufactured and tested to exceed BS EN 10535:2006

This does not mean that it can be used without care. **ALL OPERATORS** should have read the operating instructions and appreciate this warning section.

1. **ALL STAND AIDS** are less stable on sloping surfaces. A 5-degree slope is the maximum permitted and then only with great care.
2. **ALL STAND AIDS** are less stable when the load is at maximum height.
3. **ALL STAND AIDS** are less stable when the load is swinging.
4. **ALL STAND AIDS** are dangerous to the person being carried when used recklessly or pushed at speed.

6.0 TECHNICAL SPECIFICATION

6.1 Dimensions & Weights

Model Specification	SA 160E
Maximum Weight Capacity	160 Kgs
Lifting Range	770 - 1675mm
Stand Aid Foot Print (L x W)	1250 x 660 mm
Turning Radius	1305mm
Legs Open - External Width	1190mm
Legs Open - Internal Width	1030mm
Legs Closed - External Width	720mm
Legs Closed - Internal Width	560mm
Overall Height of Legs (Top of Legs to Floor)	112mm
Ground Clearance (Undersize of Leg to Floor)	62mm
Front Twin Castors (Diameter)	100mm
Rear Twin Castors (Diameter)	100mm

Weights	SA 160E
Assembled SA 160	46 Kgs
Mast & Boom (Including all fittings)	23 Kgs
Base Assembly	23 Kgs
Battery	3 Kgs

6.2 Sound Levels— Measured in dB A

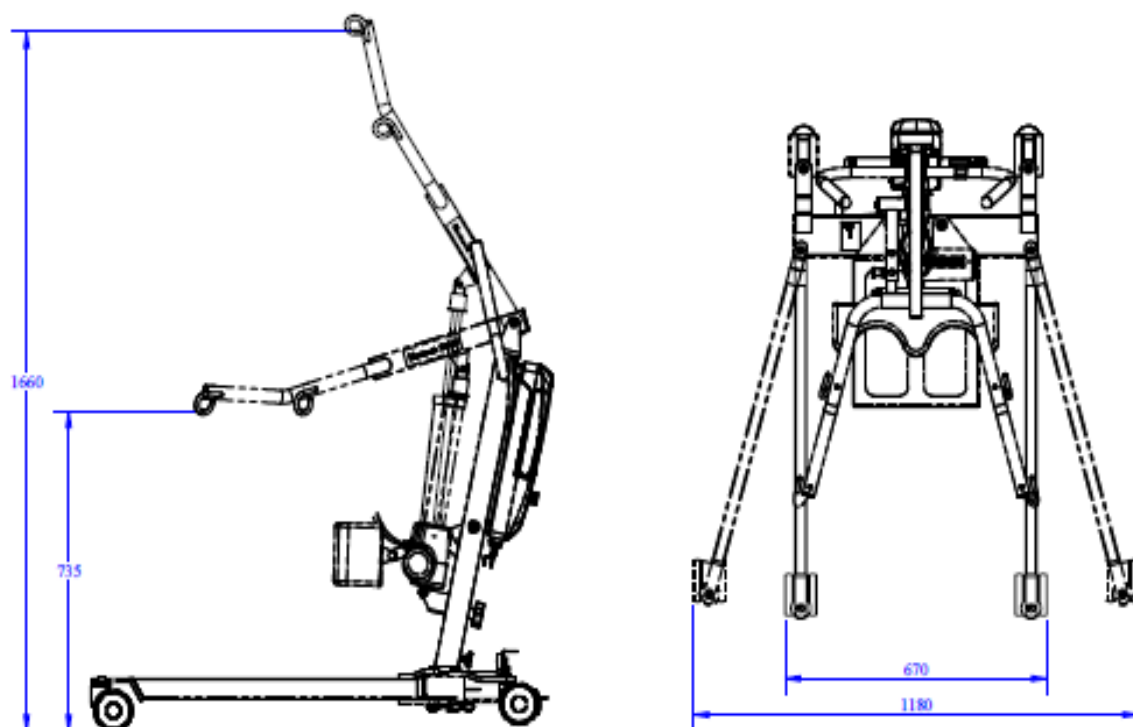
SA160E

Unloaded

Loaded

TECHNICAL SPECIFICATION

6.3 Maximum lifting Height & leg width



6.4 Electrical detail

Electrical Specifications

- Batteries: - 2 x 12 volt rechargeable sealed lead acid
- Battery capacity - 2.9 ampere hours
- Charger Input - 230V ac 50/60Hz
- Charger Output - n/a

Electric shock protection-

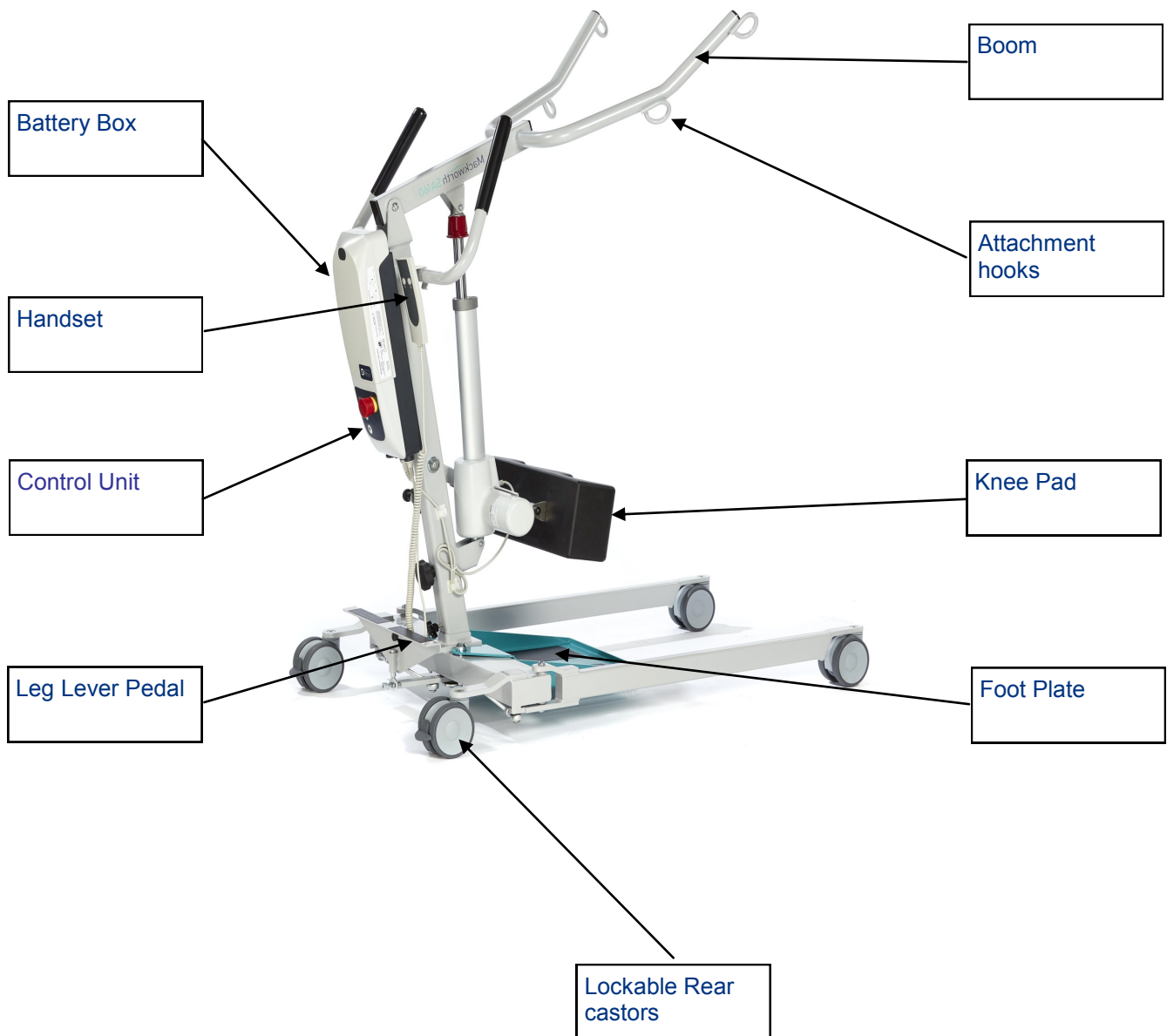
Charger	Class 11
Hoist	Internal Power Source

Degree of Shock protection -

Hoist	Type B
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The policy of Prism Medical UK is one of continual improvement and we reserve the right to modify designs without notice.

6.5 SA 160E Main Assembly Components



7.0 Fault Finding / Maintenance

7.1 Fault Finding

If the hoist will not operate:-

- ENSURE THE BATTERY IS CHARGED AND THAT IT IS ATTACHED CORRECTLY TO THE CONTROL BOX
- ENSURE THAT STOP BUTTON IS IN THE OUT POSITION.
- MAKE SURE THE CHARGING LEAD IS DISCONNECTED FROM THE MAINS POWER SUPPLY
- CHECK THE HANDSET LEAD HAS NOT BEEN PULLED FROM THE CONTROL BOX SOCKET OR WIRES DAMAGED

If the above checks prove unsuccessful, contact your nearest MACKWORTH APPROVED AGENT

7.2 Service / Maintenance

Any work performed on the SA160E must be in accordance with the specifications detailed in the test requirements of BS 10535:2006.

You should also consider if the hoist requires servicing in accordance with “LOLER REGULATIONS” (Lifting Operations and Lifting Equipment Regulations 1998).

7.3 Cleaning, Disinfection and Sterilisation

The SA160 E has an anti-microbial coating. This does not replace the need to clean and maintain the hoist unit.

- **Routine cleaning:** the exterior of the stand aid can be wiped over with a damp cloth containing a mild soap solution.
- **Disinfection and Sterilisation:** the exterior of the stand aid should only be disinfected and sterilised using Isopropyl alcohol. Dampen a cloth with isopropyl alcohol and wipe down the entire stand aid.



DO NOT USE ABRASIVE MATERIALS
DO NOT IMMERSE THE HOIST UNIT.

DECLARATION OF CONFORMITY

Manufacturers Name: Prism Medical UK Ltd
MHRA Registration No: CA 013248
Manufacturers Address: Units 1-4, Tir Llwyd Industrial Estate,
Kinmel Bay, Conwy,
LL18 5JA, UK
Tel +44 (0) 844 980 2296
Fax +44 (0) 844 980 2297

Declares that the manufactured product:-

Product Name: Mackworth - Stand Aid
Model Number (S): SA160E
Product Options: 160 Kg

Conforms to the following European Union Council Directives:-

Directive 93/42/EEC and all amendments up to Directive 2007/47/EC

Classification Class 1, Low Risk Medical Device
Tested in accordance with BS EN ISO 10535:2006 & IEC 60601 3rd Edition

Directive 89/336/EEC for Electromagnetic Compatibility

Supplementary Information:

The undersigned declares the product herewith complies with the requirements set out above and carries the CE mark accordingly.
The Technical Construction File required by this directive is maintained by the manufacturer as detailed above.

Signed:



Date:

27.05.2016

8.0 Test Certificate & Guarantee

TEST CERTIFICATE SA 160E

Safe Working Load: 160Kgs

Serial No:

Date of Test:

This Test Certificate confirms that the above numbered hoist has been fully tested in accordance with the tests specified in BS EN 10535 and has conformed fully therewith.

Signature of Tester

Guarantee

This guarantee does not affect or in any way limit your Statutory Rights

- 1) Prism Medical UK guarantees the SA 160E supplied as new, against failure within the period of twenty four months from the date of purchase by virtue of defects in material or workmanship.
- 2) The liability of Prism Medical UK under terms of this guarantee shall be limited to the replacement or the defective part (s) to the sales distributor, dealer, agent, person or entity which purchased the equipment from Prism Medical UK. In no event shall Prism Medical UK incur liability for any consequential or unforeseeable losses.
- 3) This equipment guarantee shall be void if the equipment is not serviced by Prism Medical UK Ltd authorised agents, in accordance with manufacturer's recommendations, or if any unauthorised persons carry out work on the equipment.
- 4) This guarantee does not apply to failure attributable to normal wear and tear, damage by natural forces, user neglect or misuse or to deliberate destruction.

Exemptions: Batteries will be guaranteed for a period of 90-days after original purchase.

9.0 Service Record History

9.1 Initial Information

- Complete the following section on **Purchase and Service Information** as soon as this equipment is supplied.
- Use the service record history to record to any completed service and repairs.
- Ensure that the service record is signed and dated each time it is used.
- Be sure to have this piece of equipment serviced on a regular basis (6 monthly where LOLER applies).

PURCHASE INFORMATION:

Product Name: Mackworth Stand Aid **Model:** SA160E

Date of Purchase: _____ **Serial#:** _____

Purchased From: _____

Address: _____

City: _____ **Postal Code:** _____

Telephone No: _____

Comments:

SERVICE INFORMATION:

Contact the following company for service:

Company: _____

Address: _____

City: _____ **Postal Code:** _____

Telephone No: _____

Comments:

9.2 Service Record History

Complete this section after each service, repair inspection and/or maintenance. Photocopy additional pages as required.

Date: _____ Time: _____

Service Type: Periodic Inspection Monthly Inspection 6 Month Inspection Repair Yearly Inspection Other: _____

Completed By: _____
Printed Name Signature

Company: _____

Remarks & Action Taken:

Date: _____ Time: _____

Service Type: Periodic Inspection Monthly Inspection 6 Month Inspection Repair Yearly Inspection Other: _____

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Printed Name Signature

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Date: _____

Time: _____

Service Type: Periodic Inspection Monthly Inspection 6 Month Inspection Repair Yearly Inspection Other: _____

Completed By: _____
Printed Name

Signature

Company: _____

Remarks & Action Taken:

Standing Support & Posterior Sling

Application

The Standing Support and Posterior Sling is designed to be used from a sitting position in conjunction with the Freeway Stand Aid.

Standing Support Sling

The sling supports the person in facilitating the sit to stand manoeuvre and should only be used on a person that has control over their trunk muscles and that has the ability to weight bear.

Posterior Sling

The posterior sling is used in conjunction with the chest sling. It helps support the hips in the sit to stand manoeuvre.

Sling Inspection

All Prism slings are manufactured to meet and exceed the requirements of BS EN 10535:2006 'Hoists for the transfer of disabled persons— Requirements and test methods'. Slings should be inspected prior to use and after washing. Damaged or badly worn slings should be discarded... The label on the sling contains vital information to identify the sling—if any part of the label becomes illegible, then it must be removed from service and replaced.

The sling should be visually inspected with regard to the following items:-

- Any signs of damage (i.e. Cuts, frays, tears, burns) to the sling straps
- Any signs of stitching becoming undone on any part of the sling
- Any signs of the fabric being stretched, tearing or undue wear
- Any signs of discolouring or bleaching on the material
- Is the sling complete? i.e. all straps present, stiffeners in place - where applicable, etc
- Label clearly legible

Compatibility

The issue of sling compatibility with various manufacturers' hoists has been a concern for specifiers for a number of years, an issue that is compounded by the increased number of companies supplying hoists and slings.

Some hoist/sling manufacturers will state that only slings manufactured by them can be used on their hoists and vice versa. This is their policy only and is **NOT** a legal requirement. A risk assessment must still be completed even if the same manufacturer of hoist and sling are to be used, and the specifier simply has to state that the carry bar is of a similar design and that the sling manufacturer has authorised its use on it.

A comprehensive list is available separately and your local agent will be able to provide assistance with compatibility issues.

Maximum Load (Safe Working Load - SWL)

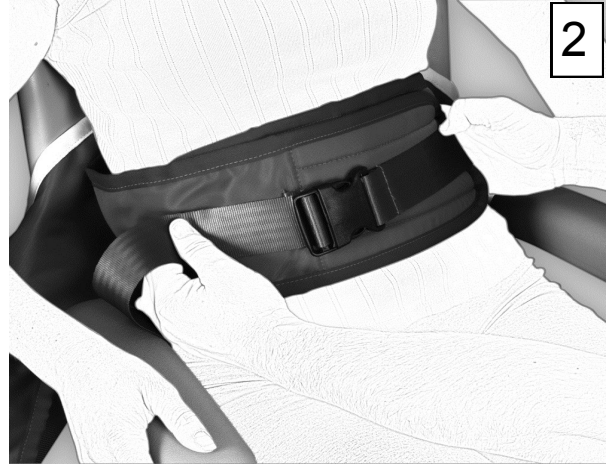
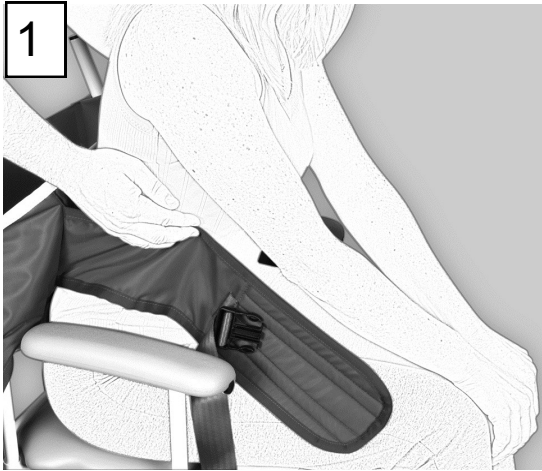
The maximum load for the sling is clearly marked on the label of the sling. The maximum load will also be displayed on the hoist and any detachable elements of the hoisting system.

DO NOT exceed the maximum load stated on any of the equipment.

How to fit the Standing Support Sling

Ensure the label and grab handles are facing away from the person before commencing the fitting procedure below.

Note: The person to be transferred shall be referred to as “the person”



Place the sling down the back to a position just beneath the shoulder blades and above the belt line. If the sling can not be introduced from behind, apply the sling in a position level with the person.

Bring the two sections of the chest strap around the person's chest and fasten securely using the hook & loop and buckle fastening. Note: the chest strap is purely intended for the security of the person and is not weight bearing.



Place the person's feet on to the foot plate and adjust the knee pad (the knee pad should be positioned at the top of the shin avoiding the knee joint) the two straps should now be attached to the carry bar hooks. Raise the carry bar just enough to tension the straps and **ensure that they are still securely attached**. As the person is about to be lifted check the chest strap for tension and comfort. Re-adjust when required.

Alternatively you can attach the sling to the lower sling hooks, this will facilitate an alternative standing procedure.

Important - always re-assess for client's co-operation and capability when using this sling.

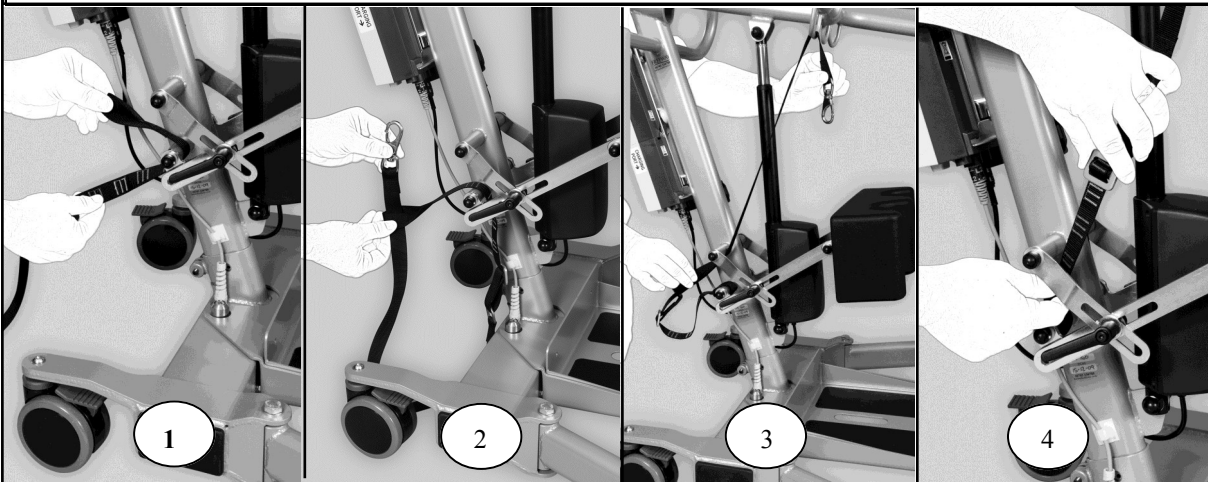
To remove the sling, carry out the fitting procedure in reverse.

Important - always peel the sling away from the person to avoid skin friction and movement.

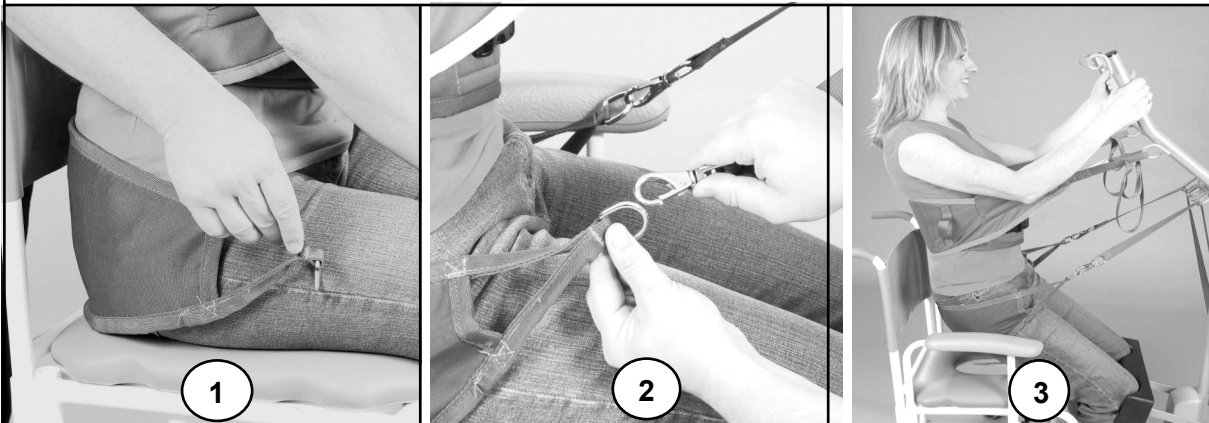
Note: The above & following techniques are for guidance only and you must comply with your local policies.. If in doubt, consult your moving and handling advisor

Using the Posterior Sling in conjunction with the Standing Support Sling

The posterior straps must first be attached to the Mackworth SA160E by following the diagrams below:



1. Thread loop of posterior strap under lower bar.
2. Thread hook through the end of the loop and pull through to form attachment to lower bar.
3. Thread hook end of the strap to the inside of the top bar and thread through the metal loop on the boom of the Mackworth SA160E.
4. Adjust the length of the strap using the slider buckle to suit the individual.



1. Fit the Standing support strap as described on the previous page (Items 1 & 2) and then introduce the posterior sling level with the person's hips.
2. Attach the posterior sling to the posterior straps.
3. Introduce the Mackworth MSA160 as described in the previous section (item 3). Raise the carry bar just enough to tension the straps and **ensure that they are still securely attached and there is no twists in the posterior straps.**

As you start the lifting procedure the posterior sling will support the majority of the lift, **(If NOT adjust the chest sling straps or the posterior straps placed at the bottom near the hoist attachment bar as shown in item 4 above)** as the standing continues the chest sling will gradually take over, once in standing the posterior sling will be relaxed to allow access to clothing.

Only use the Standing Support sling & Posterior sling with clients with the ability to stand.

Do not fix the posterior straps to anything other than the "D" rings on the posterior sling (failure to do so may cause material fracture and may also compromise safety!)

Disclaimer

While every effort has been made to ensure the accuracy of information contained in this user manual, no liability can be accepted for any errors or omissions. Mackworth operates a policy of continuous improvement where specifications and other data are subject to change without notice.

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