PRISM MEDICAL UK

Aluminium Mobile Hoist

(A205)

User Manual

User Manual Index Page

Symbols in use Index

 Warning – Consult instructions for use

 Caution – pinch point

 Manufacturer

 Please observe local laws on recycling

 Two-person lift may be required

 Refer to user manual

 Date of manufacture

Serial number

CAUTION: DO NOT ATTEMPT TO USE THIS EQUIPMENT WITHOUT FIRST UNDERSTANDING THE CONTENTS OF THIS MANUAL.

1. Introduction

Before using this equipment, and to ensure the safe operation of your Prism A205 Aluminium Mobile Hoist, carefully read this entire manual, especially the section on “Cautions”.

The A205 is designed to be used in conjunction with Prism Medical UK accessories and slings. Please refer to any user guides supplied with these components and refer to them while reviewing this manual.

Should any questions arise from reviewing this manual contact your local authorised Prism Medical UK Representative.
Failure to comply with warnings in this manual may result in injury to either the operator, or the individual being lifted/transferred. Damage to the mobile hoist and/or related components may also occur.
Be sure that the contents of this manual are completely understood prior to using this mobile hoist. Store this manual with the documents included with the mobile hoist and sling(s).

Contents of this manual are subject to change without prior written notice.

2. Contraindications

There are no known “contraindications” associated with the usage of the aluminium mobile hoist and its accessories, provided they are used a per manufacturer’s recommendations and guidelines.
However, it is recommended that a client specific assessment is completed by a trained and knowledgeable health care professional to determine the method of transfer.
Prism Medical UK does not recommend a required number of caregivers for the use of our products. This information and recommendation can only be provided after a thorough personalized, case specific assessment, as there are many factors that can influence these decisions.
It is however, “obligatory” that a client that is assessed as being an independent user of our ceiling hoist technology have the ability to receive assistance, during the transfer, in the event of a hoist malfunction or personal concern.
This assistance can be provided in the form of; a nearby qualified caregiver, a phone, a communication device etc.

3. Intended use / Overview of the A205 Mobile Hoist

The Prism A205 Aluminium Mobile Hoist is a lifting aid used by health care professionals to transfer clients.
The mobile hoist makes it possible to move mobility impaired individuals with minimal strain or risk to the caregiver, while providing complete safety, dignity and comfort for the client.
The Prism A205 Aluminium Mobile Hoist is one of two components that make up this technology. The other component, the sling, is a specially designed fabric accessory that attaches to the mobile hoist by means of a carry bar and straps, and holds an individual while the hoist, or transfer takes place.
The sling is generally supplied with the mobile hoist at the initial time of purchase.
Please refer to any user guides supplied with the sling and reference them while reviewing this manual.
The Prism A205 Aluminium Mobile Hoist has the ability to hoist an individual up from one location such as bed, then move the individual to another location and finally lower the individual into a chair or bath.
The functions of lifting up or down, or opening and closing the legs on the hoist, are accomplished by pressing buttons on the hand control. The hand control is attached to the mobile hoist.
Due to the design of the mobile hoist system, it takes very little effort to press a button to perform the desired motion.
Please familiarise yourself with the components of the Prism A205 Aluminium Mobile Hoist by referring to the diagram on the next page.

Model table for the A205 Mobile Hoist	
Product code	Product description
A205 *	A205 Mobile Hoist (205kg SWL)

* The numerical number in the product code relates to the SWL limits.

4. Components of the Prism A205 Mobile Hoist

Shown below are the representative components that make up the hoist

QRS locking carry bar

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 spec on page 8)

5. Component list

The following components are included with your new Prism A205 Aluminium Mobile Hoist system:

- Prism A205 Aluminium Mobile Hoist
- Hand Control
- Mobile hoist Integrated Charger
- Charger Cable
- Owner's Manual
- Multi-Function Spanner
- 5 mm Hex Allen Key (Short Arm)
- 4 mm Hex Allen Key (Short Arm)
- 3 mm Hex Allen Key (Short Arm)

SLINGS: If a sling has been supplied with the mobile hoist, then please refer to the instructions included with the sling.

ACCESSORIES: If additional accessories such as a weigh scale have been supplied with the mobile hoist, then please refer to the instructions included with those items.

IMPORTANT: Before initial use, the mobile hoist unit must be charged for 4 to 5 hours. Refer to section titled "Charging Instructions" on page 18

The Hand control must also be connected to the mobile hoist. If it is not connected, then please refer to the section titled "Assembly Instructions" within pages 12 to 17

Carry Bars

Although Prism Medical supplies carry bars specifically to be used with the associated devices it manufactures, there is no reason that other manufactured carry bar systems cannot be used **BUT** they must be done so after a full risk analysis has been carried out for its use on the Prism hoist system to ensure safe use can be established.

Carry Bar connection points

The carry bars manufactured by Prism Medical associated for use with this device, incorporates two fixing points which is not new technology and the fixing can be derived by user by means of a simple connection made by the sling to the carry bar itself. This connection system is used throughout the industry in various designs but all act as the means to hold the sling and user in place through operation of the device whilst in use.

6. Technical specifications for the Prism A205 Mobile Hoist

Specification	A205 hoist
Maximum weight capacity	205 kg
Maximum lifting height	180 cm
Minimum lifting height	52 cm
Height to top of legs	14 cm
Clearance from bottom of legs to floor	8 cm
Overall length	132 cm
Distance inside the legs (min)	58.6 cm
Distance inside the legs (max)	105 cm
Distance outside the legs (min)	69 cm
Distance outside the legs (max)	115 cm
Reach at maximum height	42.9 cm
Reach at minimum height	32 cm
Maximum reach distance between the centre of the carry bar to the front of the mast	60.7 cm
Turning radius	142 cm
Wheels (dual wheel castors)	Front – 101 mm Rear – 101 mm with brake
Weight of hoist	41 kg
Total shipping weight: (WGS box)	52.7 kg
Sound levels – Loaded	(up 41.7dBA) (down 40.9dBA)
Sound levels – Unloaded	(up 38.5 dBA) (down 38.5 dBA)

6.1 – Electrical specifications

- Hoist Motor: 24 VDC, 10.5 Amps Max.
- Charger Input: 100-240 VAC, 50-60 Hz, 0.4 Amps Max. (IP rating X4)
- Charger Output: 24 VDC, 0.65 Amps
- Batteries: 24 VDC (2 x 12 VDC) 2.9 Ah, Sealed Lead Acid
- Hand Control: Electric (IP rating X4)
- Lifting Range: 420mm to 1700mm (for Lowest Mast Setting)
- Hoist Weight: 41Kgs
- Maximum Load: Standard maximum load 205 Kg
- Duty Cycle: 10% use, 90% rest
- Rated Performance: 30 lifts at 205 Kg., 10% duty cycle.

Shipping/Storage Conditions:
Temperature: -40 to +70 ºC
Relative Humidity: 10 to 100% RH
Atmospheric Pressure: 500 to 1060 hPa

Normal Operating Conditions:
Temperature: +10 to +70 ºC
Relative Humidity: 30 to 75% RH
Atmospheric Pressure: 700 to 1060 hPa

7. Cautions

Under no circumstance should the Prism A205 Aluminium Mobile Hoist and sling (s) be put in control of a person who has not been properly trained in the use and care of this equipment. Failure to adhere to this warning may result in serious injury to the operator, and/or the individual being hoisted/transferred.

- The Prism A205 Aluminium Mobile Hoist and sling (s) are not toys. Do not use it for unsafe practices. Do not allow children to play with the mobile hoist or any of its components.
- The manufacturer's warranty is voided if persons unauthorised by Prism Medical UK perform work on the Prism A205 Aluminium Mobile Hoist.
- There are no user serviceable parts inside the actuator. Do not remove cover screws, or open the unit, as this will VOID THE WARRANTY.
- In facilities where more than one operator will be responsible for using the Prism A205 Aluminium Mobile Hoist and sling(s), it is imperative that all such members are to be trained in its proper use. A training program should be established by the facility to acquaint new operators with this equipment.
- Never expose the Prism A205 Aluminium Mobile Hoist directly to water. Warranty does not cover any misuse or abuse of the mobile hoist system.
- To maintain optimum function, the Prism A205 Aluminium Mobile Hoist should be inspected and maintained on a regular basis. See the section titled “General Inspection and Maintenance”.
- Any accessories used with the Prism A205 Aluminium Mobile Hoist including sling(s), should be checked to ensure that they are in good working order. Check for signs of wear or fraying prior to use. Report any unusual wear, or damage immediately to your local authorised Prism Medical UK Service Provider.
- The Prism A205 Aluminium Mobile Hoist and associated sling (s) are intended only for lifting and transferring of a person. Prism Medical UK will not be responsible for any damage caused by the misuse, neglect or purposeful destruction of the hoist, and/or its associated components.
- In any circumstances do not exceed the maximum allowable load of this hoist. Refer to the “Specifications” section of this manual, and/or the labels on the side of the hoist.
- There is a risk of explosion if the hoist is used in the presence of flammable anaesthetics.
- Ensure that a clear space is maintained around the hoist. Move any obstacles out of the way before operating the mobile hoist.

8. Assembly Instructions

a. Place the carton/packaging box in a clear working area, open carefully, and remove following items and place on the floor, taking care to protect the finish from damage.

- Mast with Boom assembly
- Base Assembly with Legs attached
- Battery Pack, and Charging Power Cord
- Hand Control
- Tool Kit
- User Manual, and Test Certificate

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 spec on page 8)

b. Place the Base with legs attached on the floor, and lock both rear castors as shown in (fig 1.)

fig 1.

c. Place the Mast with Boom assembly upright in the tube on the Base assembly as shown in (fig 2.)

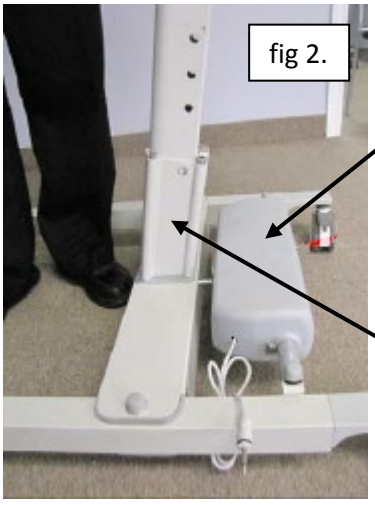


fig 2.

DO NOT stand on the cover (indicated by the arrow)

Possible finger trap. Keep fingers away from the end of the mast when inserting into the tube on the base assembly.

d. The lifting height can be set at three different levels as shown in (fig 3.) In most cases, lifting height at middle hole is recommended. For extra lifting height, the lower most setting (lower hole on the mast) is recommended. For lower lifting height, the upper most setting (upper hole on the mast) is recommended. The distance between two holes is 2 inch / 50mm.

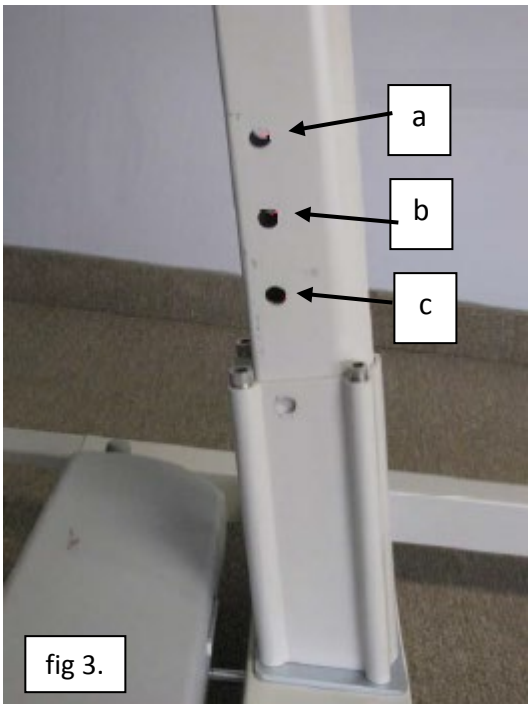
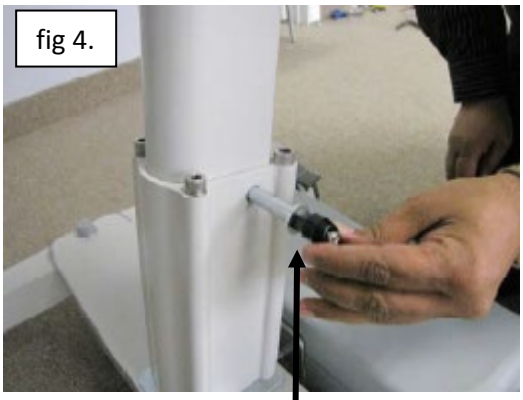


fig 3.

1. For lower lifting height, upper hole on the mast is recommended.
2. Lifting height at middle hole on mast is recommended in most cases.
3. For extra lifting height, lower hole on the mast is recommended.

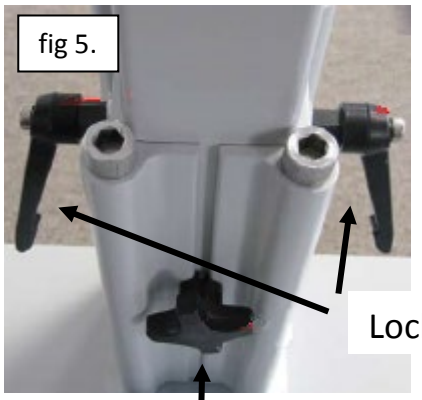
e. Using locking handles, secure the mast in the desired position on the base as shown in (fig 4.) Tighten the mast locking knob as shown in (fig 5.) Adjust the position of the locking handles pointing in downward direction towards the base of hoist (or ground) as shown in (fig 5.)

fig 4.



Locking handle being inserted through mast and base

fig 5.



Mast locking knob

f. Remove the screws from the mounting position of push handle on mast assembly. Insert the screws through the push handle bracket, and mount on the Mast assembly as shown in (fig 6.) & (fig 7.)


fig 6.

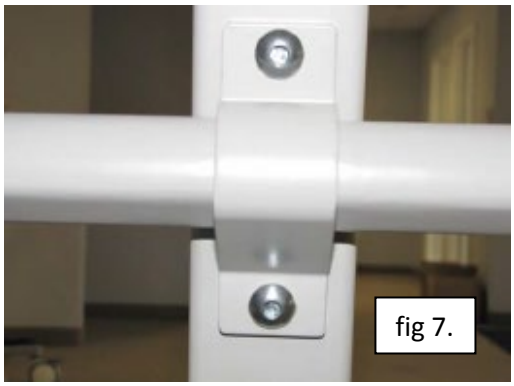


fig 7.

9. Attaching QRS Locking Carry Bar to Hoist:

9.1. QRS locking carry bar

To attach QRS locking carry bar to the hoist, tilt the carry bar to almost 90°, and push the latch to the swivel mount holder bolt as shown in (fig 8.) & (fig 9.) Make sure that swivel mount of carry bar is perfectly sat onto the swivel mount holder bolt as shown in (fig 10.)


fig 8.


fig 9.

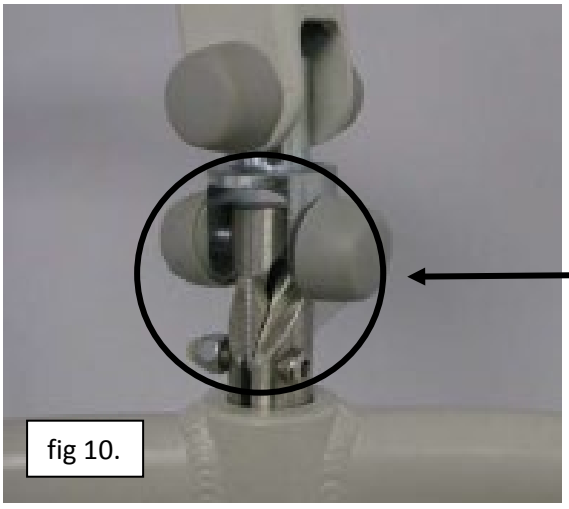


fig 10.

Showing correctly fitted carry bar into holder

9.2 <u>Attaching 2 Point QRS Carry Bar to the hoist</u>: (Optional Feature)

To attach 2 Point Quick Release Carry Bar to the Quick Release Hook, tilt the carry bar, and push the dowel pin of carry bar to the latch of QRS hook so that latch will open and dowel pin will be inserted into the QRS hook as shown in (fig 11.) Make sure that latch is closed safely after the dowel pin sitting into the QRS hook as shown in (fig 12.)

fig 11.

fig 12.

9.3 Detaching QRS Locking Carry Bar, and 2 Point QRS carry bar from the Hoist:

To detach the QRS Locking Carry Bar from Quick Release Hook, open the latch by pushing the latch down using the finger as shown in (fig 13.) Keep the latch pushing down, Tilt the carry bar approximately 90 degrees, and remove the carry bar from the quick release hook as shown in (fig 14.)
Apply the same procedure to detach Prism QRS Carry Bar from hoist as shown in (fig 15.) & (fig 16.)

QRS locking carry bar


fig 13.


fig 14.

Prism QRS carry bar


fig 15.


fig 16.

10 – Final assembly

1. Remove the middle screw from the mounting bracket using the 3 mm Allen Key as shown in (fig 17.) opposite


fig 17.

2. Press the A205 CBJ Care Control Box against the mounting bracket and slide it down. The control box should be seated securely on top of the edge of bracket as shown in (fig 18.)


fig 18.

3. Mount the control box to the mounting bracket using the same screw that you removed from the middle of the bracket as shown in (fig 19.)

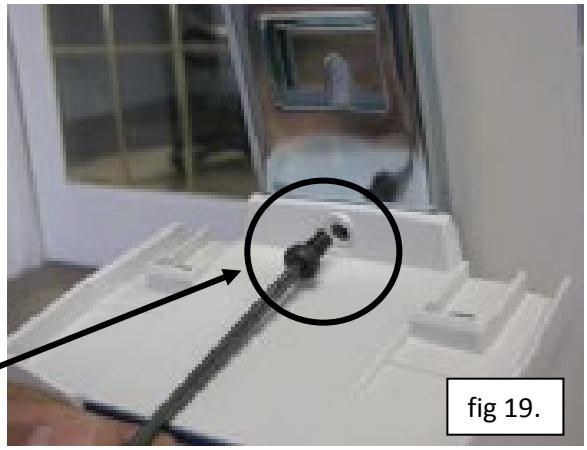


fig 19.

4. To install the battery, you will need to press the battery against the bracket and slide it down until it sits straight on top of the control box as shown in (fig 20.) Make sure to secure the battery box by latching the battery lock into the bracket as shown in (fig 21.)

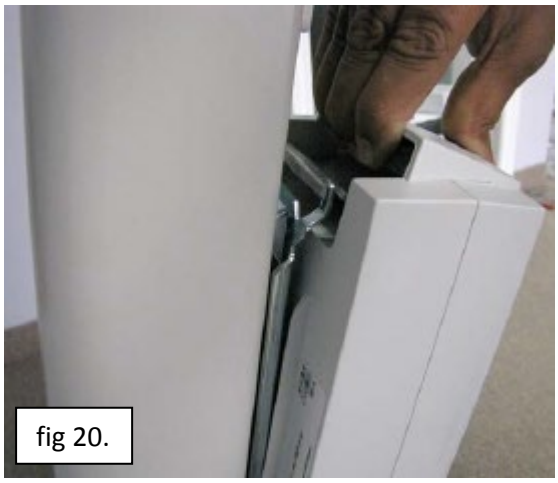


fig 20.


fig 21.

5. Connect all the cables to the control box as shown in the picture below.
   a. Connect the Hand Control connector to the large circle on the left side of the control box as shown in (fig 22.)
   b. Connect the Up/down Actuator Cable connector to the second circle (Marked No. 1) from the left side of the control box as shown in (fig 23.)
   c. Connect the Leg Spreading Actuator Cable connector to the third circle (Marked No. 2) from the left side of the control box as shown in (fig 24.)
   d. Connect the Mains Cable/Power Cord to the rectangular outlet on the control box as shown in (fig 25.)


fig 22.


fig 23.

fig 24.

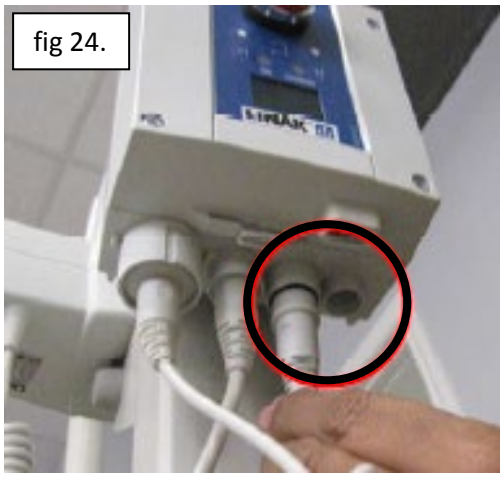
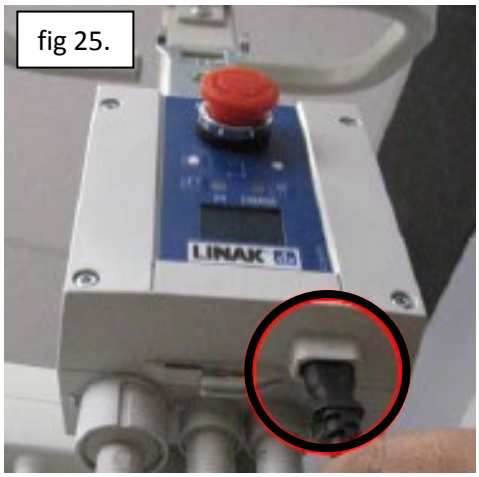


fig 25.



Please make sure to charge battery before initial use and before each operation of mobile hoist.

After assembly, check to ensure that:

1. Lifting actuator moving up and down with the buttons on the hand control, and control box.
2. Emergency lowering (mechanical, and electrical) functions works properly.
3. Rear wheel brakes works properly.
4. Leg spreading actuator works properly.
5. Batteries are fully charged.

11. Operation

The hoist can easily be operated by one person.
Visually inspect the mobile hoist before using for any unusual wear and tear. Should anything look unusual then contact your local representative prior to use.
Failure to comply with this caution could result in serious injury to the operator, the individual being lifted and/or damage to the hoist.
Because of the safety function in the actuator the lifting arm and hanger bar can “fall down” to the height of the spindle. Therefore, both before and after each lifting operation, press the lifting arm down to ensure that it is supported by the actuator. This must be done, to remove the possibility of the lifting arm “falling down” and the risk of subsequent injury occurring.

11.1 Charging:

The “On” light illuminates when you plug the control box to the power outlet and should turn off when it is unplugged. The “Charge” light illuminates, and when you connect the battery to the control box and it is charging, also the LCD displays shows the symbol of mains cable plug in as shown in (fig 26.). The “Charge” light will turn off when the battery is finished charging.

The hoist should be plugged in for charging whenever it is not in use to get the max number of cycles out of the battery. An audible battery alarm will sound when approximate 25% of battery capacity remaining. To obtain max life, charge the battery at no more than 30% discharge.

Please Note: The battery can be charged whether the Emergency Stop is activated or not.

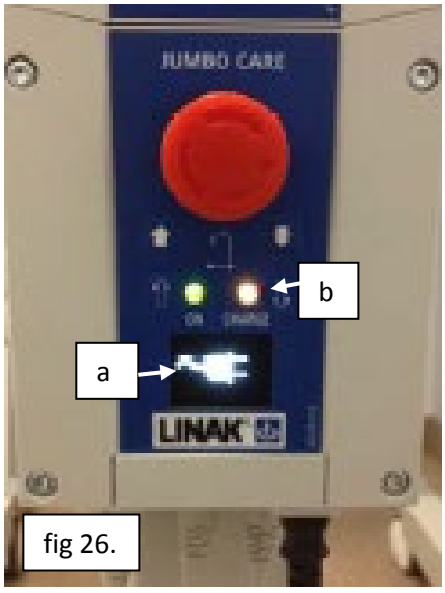


fig 26.

a. Shows the display output stating a mains cable is plugged into the unit.
b. Is indicating, as the charging LED is on, that the hoist is charging.

11.2 Start-up:

The Hand Control has four functions up/down and legs in/out.

Press down on the symbols to operate the desired function. It is not possible to use two functions at the same time.

An audible alarm will sound once the load becomes too great on the hoist. This will cause the lifting operation to stop. Do not continue to operate the handset by repeatedly pressing the buttons. At this point the hoist has reached its maximum load. This is a purposefully built in safety feature.

Note - The emergency stop must be released at all times during normal operation.

11.3 Forward Movement:

To move the hoist forward, hold onto the handle bar and push forward.

DO NOT stand or press on the cover shown opposite to enable the device to move in any direction.

11.4 Turning:

When turning the hoist, stand on along one side. With one hand pull gently on the handle bar, and with the other hand push gently away on the lifting arm.
In this way the hoist will rotate around its own axis. This movement is performed with a smooth, slow action to avoid swinging the patient unnecessarily.

The directional arrows in the images indicate the direction of movements in correspondence with the instruction shown in 11.4 above

Do not hold on to the actuator or swing link when turning the hoist as there is a risk of getting your fingers caught.

11.5 Leg Adjustment:

The legs of the A205 hoist are electrically adjustable for opening, and closing base width. The legs can be opened to enable access around arm chairs or wheel chairs. For transferring through narrow doorways, and passages the hoist legs should be in closed position. Leg adjustment is achieved by pressing appropriate buttons on the hand control. The legs' motion will be stopped whenever the hand control button is released.

11.6 Raising and Lowering the Boom:

The up and down movement of boom on A205 hoist is achieved by a powerful electric actuator which is controlled by hand control. The hand control has two button with directional arrows UP and DOWN. The actuator stops automatically at the limit of travel in both directions.

11.7 Castors and Braking:

The A205 hoist has two rear castors with brake. The rear castors can be braked for rotation, lateral movement, and parking. To apply the brake, press the brake pedal down with your foot. To release the brake, press the raised pedal towards the wheel.

During the lifting, the rear wheels should remain unlocked so that the hoist will move to the patient's centre of gravity. The wheels should, however, be locked if there is a risk of hoist moving to the patient. For example, when lifting the patient from the floor.

Locked wheels during lifting will increases the risk of the hoist tilting over. When the hoist is not in use, stored away, ensure the emergency stop is depressed to prevent any unintended use by minors playing around the device

User Note

The control boxes utilised within the devices use internal relay switches for actuator operation.
Pressing a hand controller button energises this control box relay with a small magnetic field, causing it to close. Releasing the hand controller button de-energises the control box relay, causing it to open.
Immediately "re-pressing" the relevant control button before the relay's magnetic field has had time to reset will result in no additional activation.
This is not a fault of the system and no damage is caused by this process.
If this situation occurs, please release the control button for two seconds and then press again. By this time the magnetic field will have dissipated and the operation of the button will re-energise the switch enabling further use.

12. Application

If the hoist is used incorrectly any warranty or product liability might cease to be valid.

The mobile hoist must only be used for person lifting and only for persons who, including the sling, do not weigh more than the stated max. weight load. If the load exceeds the stated weight limit and if the hoist is used for lifting anything but persons, then any product liability that Prism Medical UK might have, in connection with insurance / warranty / maintenance etc., will cease to be valid.

To avoid possible accidents and injury to persons being lifted, the mobile hoists must only be operated as described in the preceding pages.

13. Basics in transferring an individual

The following steps are intended to generally illustrate the procedure involved in the lifting and transferring of an individual from one location to another using the mobile hoist.

The manual for the sling that was purchased with the hoist should be reviewed in detail prior to attempting these steps, as the sling illustrated here may not be the same as the one that was purchased.

Contact your local authorised Prism Medical UK Representatives if you have any questions or concerns.

Step 1. Unplug the hoist from its charging station or current location and move close to the individual that is to be transferred. Use the procedures for up and down and transferring as described in the sections titled, “Start”, “Forward Movement” and “Turning”.

Always use extreme care when moving the hoist from one location to another. Watch out for and avoid any obstructions that may cause injury to the individual in the sling, or damage to the hoist.

Step 2. Prepare the individual being transferred with the appropriate sling. Refer to the instructions supplied with the sling that was purchased on how to properly outfit an individual with a sling.

Always make sure that the sling is correctly fitted and adjusted on each side of the individual so that maximum comfort and safety are achieved prior to lifting.

Step 3. Once the individual has been outfitted with the sling, move the hoist so that it is positioned directly over the individual and utilise leg opening function if required. Lower the carry bar to a height so that the straps of the sling can be easily attached to the carry bar.

Always check to ensure that the hoist is correctly positioned directly above the person to be lifted.

Check to ensure that the carry bar has no cuts, dents or sharp edges that may come in contact with the straps of the sling and cause damage to them. Report any concerns to your local authorised representative.

Step 4. Attach the straps of the sling to the hooks of the carry bar. The straps on each side of the sling are generally attached to the corresponding side of the carry bar. Be sure to double check to ensure that the straps are properly attached to the carry bar, and that the individual being lifted is properly positioned in the sling prior to lifting.

Prior to lifting an individual make sure that the straps of the sling are securely placed on the hooks of the carry bar.

Step 5. The individual may now be raised using the UP button on the hand control. While lifting is in progress the height required in order for the transfer to be completed safely should be closely observed. Ensure that the individual being lifted will not be injured by any obstructions during the initial lifting.

Always use caution when lowering/raising an individual who is in the sling of the hoist. Watch out for and avoid any obstructions that may cause injury to the individual, or damage to the hoist.

Step 6. Once at the correct height the individual can be moved to the desired location. Refer to the sections already described in this manual on how to do so.

Step 7. Once at the desired location the individual in the sling can be lowered/raised to the correct height in order to complete the transfer. On completion of lowering/raising ensure that the individual is properly positioned and safely supported prior to removing the straps of the hoist from the carry bar.

Prior to removing the straps of the sling from the carry bar be sure to check that the individual being lifted is securely supported in the final desired position.

Step 8. Lower the carry bar sufficiently to allow the straps of the sling to be easily removed from the carry bar. Take care not to let the carry bar come in contact with the individual in the sling. The straps from the sling can now be removed from the carry bar. The hoist should then be moved away from the immediate area so that it will not interfere with the removal of the sling from the client.

Step 9. The sling can now be gently removed from the individual. It should then be stored in a safe place for future use.

Step 10. The hoist can now be moved to a safe location until further use, or relocated to its original location. The hoist should be turned off when not in use. It is recommended that the hoist be left on charge when not in operation. Refer to the section titled, “Charging the hoist” for instructions on charging.

14. Emergency stop & Lowering

The manual emergency lowering system should be used only if the lowering procedures described in the previous section of the manual do not work. Should you have any concerns or questions contact your local authorised Prism Medical UK Representative.

DO NOT use the hoist after the manual lowering mechanism has been used. The hoist must be reset by a qualified hoist technician after use. Contact your local authorised Prism Medical UK Service Provider.

14.1 Emergency Stop:

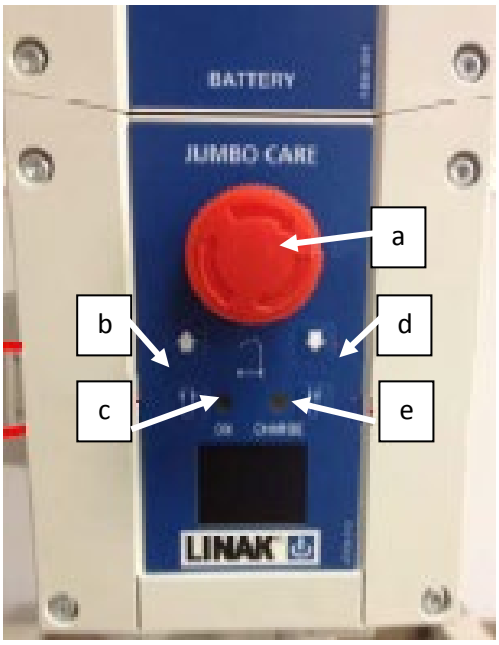
Push the Emergency Stop button to cut all power on the Mobile hoist. To resume power, release the emergency stop button by turning in the direction as indicated by arrows on the Emergency Stop button.

14.2 Electrical emergency lowering/raising:

The hoist boom is lowered or raised by pressing the UP and DOWN arrow button on the control box.

14.3 Electrical emergency leg adjustment:

The hoist legs are opened or closed by pressing the leg opening, and leg closing arrow button on the control box.



a. Emergency stop button
b. Emergency raising button
c. Emergency leg opening button
d. Emergency lowering button
e. Emergency leg closing button

14.4 Mechanical emergency lowering:

In case of power failure, it is possible to mechanically lower a patient placed in A205 hoist. In order to lower the boom in an emergency situation, pull up the red lever located directly on the hoist's actuator. The boom will lower as you press up and hold the lever. Release the red lever once you have lowered the boom to a safe position.

15. Control box

The control box of A205 hoist has an LCD display to give some basic usage information on the display. The following information will be visible on the LCD display of control box.

When it is time for service the service symbol will appear on the display will light up and give notice to users about the need for service.

If the hoist stops because of overload, the symbol will appear on the display and give user the information about why the hoist has stopped.

If someone tries to use the hoist while mains plugged in, the symbol will appear on the display. The user receives the information about why the hoist is not working. Usage of hoist while charging is not possible.

The display showing a full battery symbol indicates that the battery is fully charged.

The display showing a half empty battery symbol indicates that it is time to charge the battery.

The display showing an empty battery symbol indicates that the battery is completely discharged.

The display showing a lifting actuator is moving up.

The display showing a lifting actuator is moving down.

The display showing that the legs are opening.

The display showing that the legs are closing.

15.1 Service information

The control box of the A205 hoist has an LCD display to show some basic service data on the display.
To get this information, press the “lifting arm up” button on hand control for half a second. The information that appears on the display is as shown below.

Total cycles made by actuator

Total work made by lifting actuator (A x S)

Total number of overloads

Number of days since last service / number of days between services

Total cycles made by lifting actuator:
One cycle is defined as; Moving with load (the actuator draws more than 1.5 Amps). Moving direction up for a minimum of 5 seconds (several activations are allowed), followed by moving down for a minimum of 2 seconds.

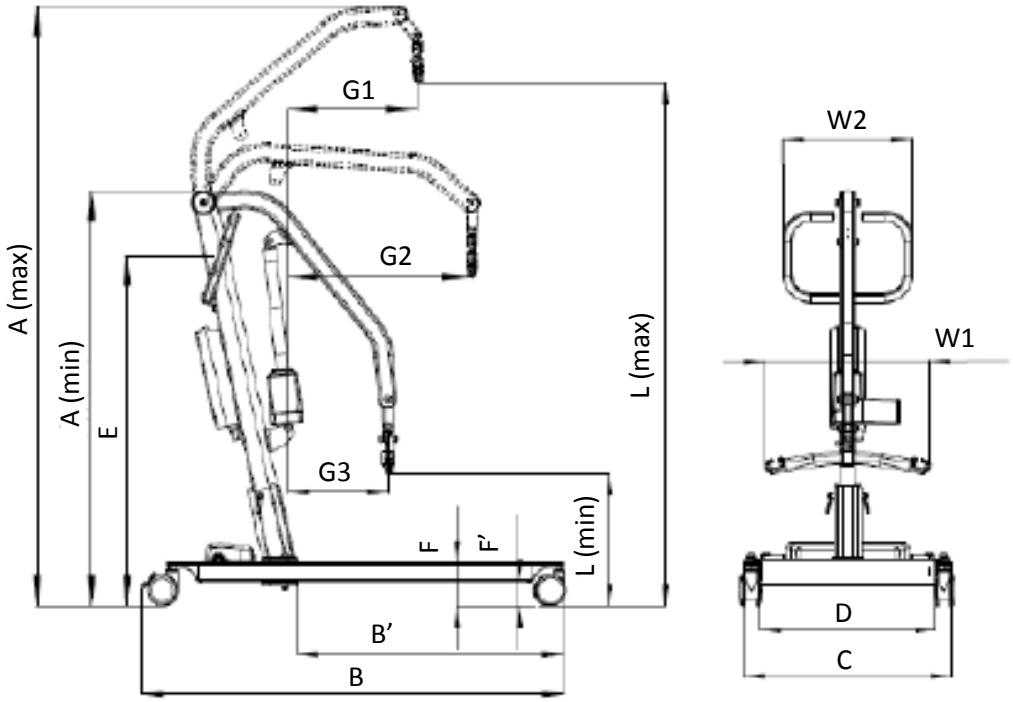
Total work made by lifting actuator:
Work indicator for the lifting actuator measures via ampere usage x seconds in use. The work indicator gives very good indication of how worn is the actuator. Typical minimum lifetime performance without abuse of the actuator is 10000 cycles in life test equals to 5,600,000 A x S.

Total number of over loads:
Counts the number of times the lifting actuator has been overloaded.

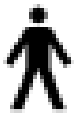
Resetting of Service interval after service has been carried out:
Resetting of service is done by pressing 2 buttons; Lifting arm UP, and lifting arm DOWN on the hand control at the same time for 5 seconds. After pressing the buttons for 5 seconds, you will receive an audio signal indicating that the timer has

16. Technical Specifications– A205 Standard Base

Specifications for the Prism A205 Aluminium Mobile Hoist



	Maximum load and weight in Kilograms / Dimensions in Centimetres																
Max load	L		A		B	B'	C	D	E	F	F'	G			W1	W2	N.W	Turning radius
	max	min	max	min								G1	G2	G3				
204	180	52	205	146	132	84.5	69 to 115	58.6 to 105	115	14	8	42.9	60.7	32	54.3	42.8	41	142
	175	47	200	141					110									
	170	42	195	136					105									



Type B applied part

17. Do's and Don'ts

DO

- Do charge the battery whenever possible. This will extend the battery life. A large number of cycles can be obtained from operating on the batteries, but battery lifetime is reduced with frequent discharging.
- Do inspect all cables particularly the mains power cable on the charger for any damage; replace where necessary.
- Do stow the handset and if fitted with charger, the mains power cable when transporting the hoist.
- Do clean the actuators, control box, charger, battery and handset at regular intervals to remove dust and dirt.

Take great care to ensure that no liquids get inside the hoist. This hoist is not drip proof or water tight. Failure to protect the hoist from liquids may result in damage to the hoist and/or may cause personal injury.

DON'T

- Don't allow the batteries to fully discharge before connecting to the charger. The batteries are a lead-acid gel cell type that can be trickled charged continuously (batteries used for standby) and have a high current discharge capacity. Life is greatly reduced by deep or complete discharging of the batteries. Longer lifetime is obtained by maintaining fully charged batteries.
- Don't continue to operate the handset by repeatedly pressing the buttons if the hoist function will not move or the actuator will not function. If this occurs, then the actuator has either reached its end position, the load is too great or there is a malfunction.
- Don't exert excessive force on the handset cable as this may break off the wires inside the cable and prevent some or all of the operations.
- Don't continually operate the hoist functions. The system is not designed for continuous operation. Continuous operation will cause batteries to be deeply discharged or to damage the actuator or control box by overheating.

The exterior of the hoist should only be cleaned, disinfected or sterilized (if required) using isopropyl alcohol.
Damp a cloth with isopropyl alcohol and wipe down entire exterior of hoist. No other chemicals and/or liquids should be used to clean, disinfect and sterilize this hoist.

18. Fault finding

Should problems arise with the use of the hoist, review the following chart. Find the fault and complete the recommended solution. If the fault is not found and/or the solution does not correct the problem, contact your local Prism Medical UK authorised Service Provider for service immediately.

Problem	Solution
Hoist cannot raise/lower, control box is not clicking.	• Hand control is not properly plugged in. • Hand control is defective. • Control box is defective.
Hoist cannot raise/lower, control box is clicking.	• Lifting actuator cord (1) is not fully plugged into slot (1) on the control box. • Lifting actuator is defective.
Emergency Lower button on control box does not lower.	• Lifting actuator cord (1) is not fully plugged into slot (1) on the control box. • Lifting actuator is defective. • Control box is defective.
Hoist cannot spread or close legs, control box is not clicking.	• Hand control is not properly plugged in. • Hand control is defective. • Control box is defective.
Hoist cannot spread or close legs, control box is clicking.	• Leg spreading actuator cord (2) is not fully plugged into slot (2) on the control box. • Leg spreading actuator is defective.
Cannot move hoist.	• Rear castor brake is engaged. • Castors are defective.
Cannot tighten Mast into Base tube.	• Mast locking assembly are defective, replace with new mast locking assembly .

19. General Inspection and Maintenance

1. **Each Use** - To be completed by User

   All functions on hand control are operational.

2. **Bi-Annually** - To be completed at least every 6 months.
   Should any of these items fail the inspection do not use the hoist. Contact Prism Medical UK or your local qualified service technician for service.

   Complete the inspection as noted in the "Each Use" section above.

   Also check the following:
   - Battery charger functional.
   - Weigh scale functional (if applicable).
   - Castors are clean and free of debris.
   - All bolts and attachment points are secure (see next page for "Points of Attachment")
   - Visual inspection of all weld points and cast components.
   - Check operation of the emergency stop button.

3. **Annually** - To be completed at least every 12 months.

   - Complete the inspection as noted in the "Semi-Annually" section above.

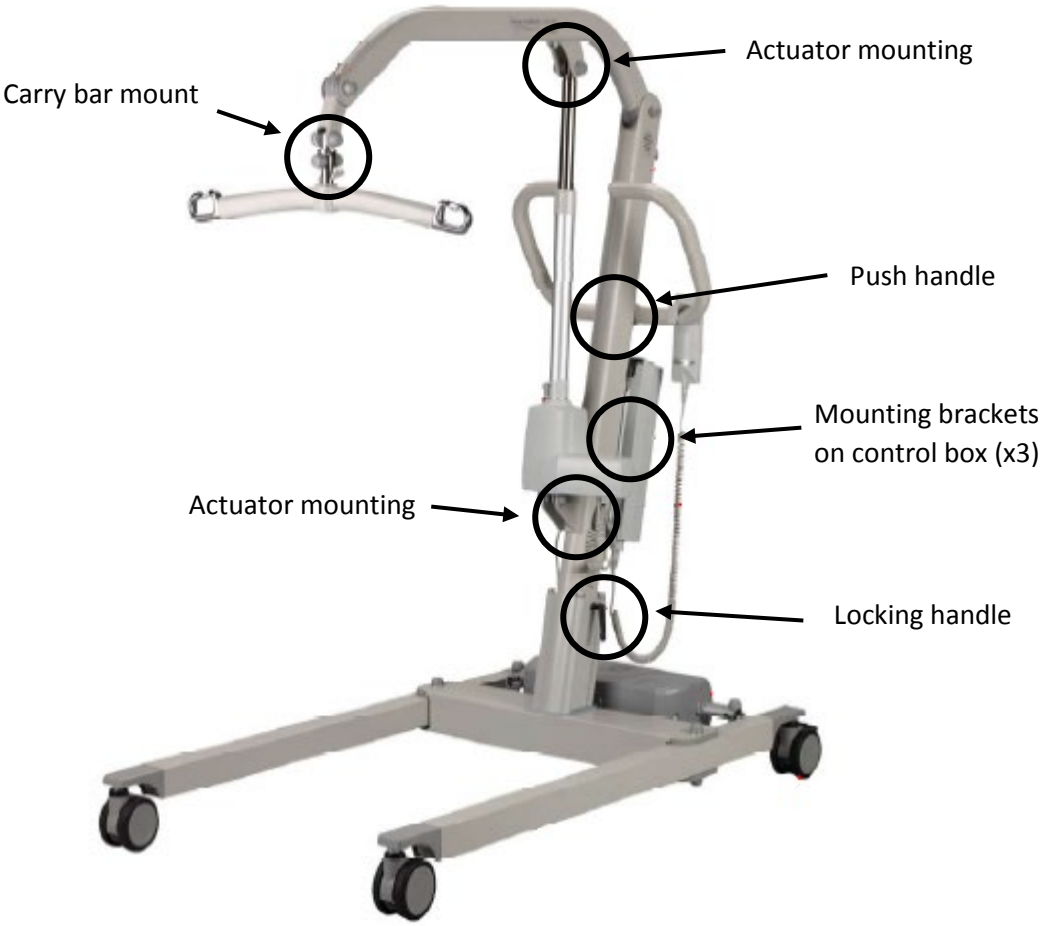
   Also check the following:

   - Perform a working load test of one (1) lifting cycle with the maximum load. This is in accordance to the periodic inspection requirements of ISO 10535.
   - Check functional operation of the emergency lowering mechanism.
   - All bolts in connection with the carry bar must be inspected, greased and tightened. All defective or worn components must be replaced.
   - Connection bolts/bearings between arm and mast to be inspected. All defective or worn components must be replaced.
   - Leg spreading function to be tested and all bolts to be inspected. All defective or worn components must be replaced.
   - Check that main actuator is functional.

This section to be only completed by a qualified service technician as authorised by Prism Medical UK. Use the provided service record history sheets to note findings during inspection.

20. Mobile hoist - Points of Attachment

Inspect the bolts on a monthly basis in the areas shown below.



21. Recommended Cleaning Instruction

General cleaning

The exterior of the A205 can be cleaned using a damp soapy cloth for general cleaning duties. **Please ensure the cloth is damp and not wet.** Ensure the exterior of the device is dry after cleaning, dry using a clean dry cloth.

Care should always be taken when cleaning around electrical components

Disinfecting (if necessary)

Should the A205 require a more thorough clean, the use of the Actichlor disinfectant product, which is widely available in tablet form and used throughout the healthcare industry, is recommended for use to ensure a thorough clean.

- Please follow the manufacturers safety instruction for the use of the cleaning product before use to ensure safe use for the operator and the patient.
- Ensure the cloth is **damp** before the cleaning process. **DO NOT** use a wet cloth over electrical systems.
- Be careful not to let water ingress into the device as although the device is IP rated, it is not water tight.

Application is through a clean soaked (but damp) cloth applied to wipe the device down

Used in the following dilutions to ensure an effective clean:

- Actichlor dissolvable chlorine tablets provide a concentration of 1000 ppm of available chlorine (0.1%) per 1 tablet
- 1 tablet (1.7g formed tablet (x1)) will create a virucidal solution, diluted in 1 litre of water to provide effective means to clean a “Dirty” device. This is also ideal for use after an outbreak of the Norovirus / winter vomiting and can be used as a precaution against C.Diff. It is effective against viruses, bacteria, spores, yeasts and moulds.
- The contact time against the outer components of the device should be for 5 minutes to prevent any virucidal infections without a degradation to the functionality of the device. 5 minutes is a recommended contact time. The device can withstand a longer contact period but the 5 minute recommendation as a minimum must be followed to provide an effective cleaning regime.
- Blood spills should be dealt with by an increased concentration of the solution – please refer to the instructions on the manufacturers product labelling.

Concentration limits for differing cleans will be shown on the manufacturers Achtochlor tablet container, however, this is reflected in the table below:

Dilution chart					
Product used as:	**Device condition**	**Concentration (ppm)**	**Dilution qty ***	**Tablets per litre**	**Contact time**
Bactericidal	Clean	200	5 litre	1	1 minute
	Dirty	1000	1 litre	1	5 minutes
Yeasticidal	Clean	200	5 litre	1	1 minute
	Dirty	1000	1 litre	1	5 minutes
Fungicidal	Clean	2000	1 litre	2	15 minutes
	Dirty	5000	1 litre	5	15 minutes
Mycobactericidal	Clean	1000	1 litre	1	15 minutes
	Dirty	5000	1 litre	5	15 minutes
Virucidal	Clean	500	2 litre	1	5 minutes
	Dirty	1000	1 litre	1	5 minutes
Sporcidal (C.Diff)	Clean	1000	1 litre	1	10 minutes
Sporicidal	Clean	5000	1 litre	5	10 minutes

***** Dilution is made within water

- When diluted in water, one tablet gives 1000 ppm of available chlorine **DO NOT** dilute within any other medium
- The concentration of the solution depends upon whether the device being cleaned is noticeably dirty or note (indicated in the table by “Device Condition”

<u>Safety precautions when using this cleaning agent</u>

Handling and Storage:

<u>Advice on Safe Handling</u>

Avoid contact with skin and eyes. Do not breathe dust / fumes / gas / mist / vapours / spray. Use only with adequate ventilation Wash hands thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas

<u>Hygiene Measures</u>

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

Conditions for safe storage, including and incompatibilities

- Keep out of reach of children
- Keep container tightly closed
- Store in suitable labelled containers
- Storage temperature: 0°C to 25°C

Individual protective measures:

- Hand protection: Gloves

Dissolve

Dissolve in cold water – With no agitation, 1 tablet will take approx. 10 minutes to fully dissolve in the water used.

The information above has been extracted from the Actichlor MSDS (Manufacturers Safety Data Sheet). For a full review of the data please follow the link below:

http://www.nhsggc.org.uk/media/236215/msds-actichlor-plus.pdf

Please refer to the associated user manual for the sling in use for the cleaning instruction for that accessory.

22. Standards Applied

The standards that have been applied to the device are as follows:

- BS EN 60601-1-2
  Medical electrical equipment. General requirements for basic safety and essential performance. Collateral Standard. Electromagnetic disturbances. Requirements and tests
- BS EN 60601-1
  Medical electrical equipment. General requirements for basic safety and essential performance
- BS EN ISO 10535
  Hoists for the transfer of disabled persons. Requirements and test methods

22.1 - <u>EMC – Electromagnetic emissions statement</u>

The device complies with the requirements of BS EN ISO 60601-1-2 – (Medical electrical equipment. General requirements for basic safety and essential performance. Collateral Standard. Electromagnetic disturbances. Requirements and tests)

Should the device come into contact with a similar device having the requirements to meet EMC performance, the reciprocal interference would be eliminated.

<u>Operator attendance</u>

As per the requirements of BS EN 15235 the hoist can be operated by one person without the need for support by a second operator

23. Service Record History

23.1 Initial Information

Complete the following section on Purchase and Service Information as soon as this equipment is purchased.

- 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 as described in the General Inspection and Maintenance Section.
- Be sure to have this piece of equipment serviced on a regular basis (6 monthly where LOLER applies).

Purchase Information

Product name: A205 Aluminium Mobile Hoist **Model**: ……..

Date of purchase: …….. **Serial No**.: ……..

Purchased from: ……

Address: ……

City: …… **Postal code**: ……..

Telephone number: ……

Comments:

Contact the following company for service

Company: ……..

Address: ……

City: ..... **Postal code:** ……

Telephone number: ……

Comments:

23.2 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:	
Device left in a safe usable condition: YES. ☐ NO ☐ (if "NO" explain in remarks the action taken)	

Date: ______________________	**Time:** ______________________
Service Type: ☐ Periodic inspection ☐ Monthly inspection ☐ 6-month inspection ☐ Repair ☐ Yearly inspection ☐ Other	
Completed by: .... (*printed name*). .... (*signature*) **Company:**	
Remarks & Action Taken:	
Device left in a safe usable condition: YES. ☐ NO ☐ (if "NO" explain in remarks the action taken)	

Date: ______________________	**Time:** ______________________
Service Type: ☐ Periodic inspection ☐ Monthly inspection ☐ 6-month inspection ☐ Repair ☐ Yearly inspection ☐ Other	
Completed by: .... (*printed name*). .... (*signature*) **Company:**	
Remarks & Action Taken:	
Device left in a safe usable condition: YES. ☐ NO ☐ (if "NO" explain in remarks the action taken)	

Date: ______________________________ **Time:** ____________________________

Service Type: ☐ Periodic inspection ☐ Monthly inspection ☐ 6-month inspection ☐ Repair ☐ Yearly inspection ☐ Other

Completed by: .... (*printed name*). .... (*signature*)

Company: ....

Remarks & Action Taken:

Device left in a safe usable condition: YES. ☐ NO ☐ (if "NO" explain in remarks the action taken)

Date: ______________________________ **Time:** ____________________________

Service Type: ☐ Periodic inspection ☐ Monthly inspection ☐ 6-month inspection ☐ Repair ☐ Yearly inspection ☐ Other

Completed by: .... (*printed name*). .... (*signature*)

Company: ....

Remarks & Action Taken:

Device left in a safe usable condition: YES. ☐ NO ☐ (if "NO" explain in remarks the action taken)

Date: ______________________________ **Time:** ____________________________

Service Type: ☐ Periodic inspection ☐ Monthly inspection ☐ 6-month inspection ☐ Repair ☐ Yearly inspection ☐ Other

Completed by: .... (*printed name*). .... (*signature*)

Company: ....

Remarks & Action Taken:

Device left in a safe usable condition: YES. ☐ NO ☐ (if "NO" explain in remarks the action taken)

Date: ______________________________ **Time:** ____________________________

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Completed by: .... (*printed name*). .... (*signature*)

Company: ....

Remarks & Action Taken:

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Remarks & Action Taken:	
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Service Type: ☐ Periodic inspection ☐ Monthly inspection ☐ 6-month inspection ☐ Repair ☐ Yearly inspection ☐ Other	
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Remarks & Action Taken:	
Device left in a safe usable condition: YES. ☐ NO ☐ (if "NO" explain in remarks the action taken)	

Date: ______________________________	**Time:** ______________________________
Service Type: ☐ Periodic inspection ☐ Monthly inspection ☐ 6-month inspection ☐ Repair ☐ Yearly inspection ☐ Other	
Completed by: .... (*printed name*). .... (*signature*) **Company:**	
Remarks & Action Taken:	
Device left in a safe usable condition: YES. ☐ NO ☐ (if "NO" explain in remarks the action taken)	

Date: ______________________________	**Time:** ______________________________
Service Type: ☐ Periodic inspection ☐ Monthly inspection ☐ 6-month inspection ☐ Repair ☐ Yearly inspection ☐ Other	
Completed by: .... (*printed name*). .... (*signature*) **Company:**	
Remarks & Action Taken:	
Device left in a safe usable condition: YES. ☐ NO ☐ (if "NO" explain in remarks the action taken)	

Date: ______________________________	**Time:** ______________________________
Service Type: ☐ Periodic inspection ☐ Monthly inspection ☐ 6-month inspection☐ Repair ☐ Yearly inspection ☐ Other	
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Remarks & Action Taken:	
Device left in a safe usable condition: YES.☐ NO☐ (if "NO" explain in remarks the action taken)	

Date: ______________________________	**Time:** ______________________________
Service Type: ☐ Periodic inspection ☐ Monthly inspection ☐ 6-month inspection☐ Repair ☐ Yearly inspection ☐ Other	
Completed by: .... (*printed name*). .... (*signature*) **Company:**	
Remarks & Action Taken:	
Device left in a safe usable condition: YES.☐ NO☐ (if "NO" explain in remarks the action taken)	

Date: ______________________________	**Time:** ______________________________
Service Type: ☐ Periodic inspection ☐ Monthly inspection ☐ 6-month inspection☐ Repair ☐ Yearly inspection ☐ Other	
Completed by: .... (*printed name*). .... (*signature*) **Company:**	
Remarks & Action Taken:	
Device left in a safe usable condition: YES.☐ NO☐ (if "NO" explain in remarks the action taken)	

Date: ______________________________	**Time:** ______________________________
Service Type: ☐ Periodic inspection ☐ Monthly inspection ☐ 6-month inspection☐ Repair ☐ Yearly inspection ☐ Other	
Completed by: .... (*printed name*). .... (*signature*) **Company:**	
Remarks & Action Taken:	
Device left in a safe usable condition: YES.☐ NO☐ (if "NO" explain in remarks the action taken)	

Date: ______________________ **Time:** ______________________

Service Type: ☐ Periodic inspection ☐ Monthly inspection ☐ 6-month inspection ☐ Repair ☐ Yearly inspection ☐ Other

Completed by: .... (*printed name*). .... (*signature*)

Company: ....

Remarks & Action Taken:

Device left in a safe usable condition: YES. ☐ NO ☐ (if "NO" explain in remarks the action taken)

Date: ______________________ **Time:** ______________________

Service Type: ☐ Periodic inspection ☐ Monthly inspection ☐ 6-month inspection ☐ Repair ☐ Yearly inspection ☐ Other

Completed by: .... (*printed name*). .... (*signature*)

Company: ....

Remarks & Action Taken:

Device left in a safe usable condition: YES. ☐ NO ☐ (if "NO" explain in remarks the action taken)

Date: ______________________ **Time:** ______________________

Service Type: ☐ Periodic inspection ☐ Monthly inspection ☐ 6-month inspection ☐ Repair ☐ Yearly inspection ☐ Other

Completed by: .... (*printed name*). .... (*signature*)

Company: ....

Remarks & Action Taken:

Device left in a safe usable condition: YES. ☐ NO ☐ (if "NO" explain in remarks the action taken)

Date: ______________________ **Time:** ______________________

Service Type: ☐ Periodic inspection ☐ Monthly inspection ☐ 6-month inspection ☐ Repair ☐ Yearly inspection ☐ Other

Completed by: .... (*printed name*). .... (*signature*)

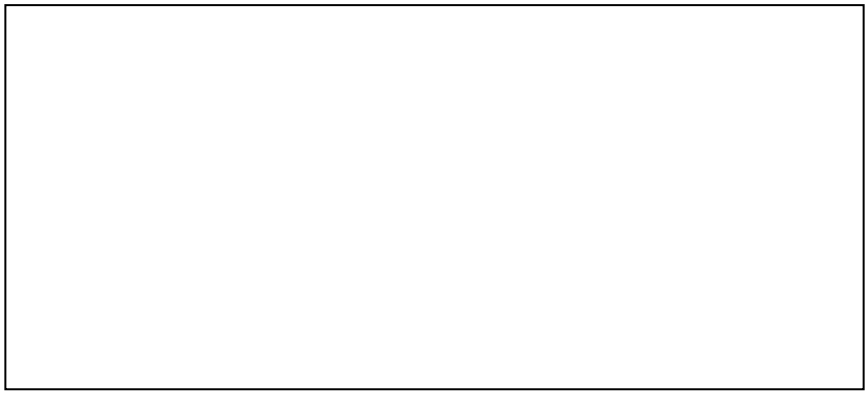
Company: ....

Remarks & Action Taken:

Device left in a safe usable condition: YES. ☐ NO ☐ (if "NO" explain in remarks the action taken)

User Notes:

PRISM MEDICAL UK



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