mackworth

CPP Portable Lift

User Manual

1 Introduction

This manual includes all variants of the CP440P portable lift, along with options for various track types.

Please read and understand this manual in its entirety before using your portable lift. The information in this manual is important for the safety of anyone near the portable lift and must be read and understood to help prevent injuries. It is also crucial to the proper operation and maintenance of the portable lift.

This user manual should be kept safe for future reference. The contents of this manual are subject to change without prior written notice.

Should any questions arise from reviewing this manual, contact your local authorized representative.

If, during the use of this device a serious incident occurs, please report it to the manufacturer and to your national authority.

1.1 Intended Use

The portable lift is a raising and lowering aid used to transfer people safely and is designed to be used in combination with a ceiling track, slings, or Free-Standing Gantry. Together, these three items make up the portable lift system. The portable lift makes it possible to move mobility-impaired individuals with minimal strain or risk to the caregiver while supplying complete safety, dignity and comfort for the person being moved. It can raise an individual from one location, such as a bed, move them along the track to another location, and finally lower them onto another surface, such as a chair. The portable lift is designed for internal use only. No other environments are suitable.

The portable lift is designed to be used by healthcare workers. All users will need specific training on how to use the lift.

You may need to seek specialist advice on how to assist people with specific moving and handling needs. Sources of advice include, but are not limited to, professional bodies and organizations, occupational therapists, physiotherapists, manual handling advisers and ergonomists with experience in health and social care.

1.2 Manufacture

The product is manufactured at the address below:

Prism Medical UK
Unit 1, Tir Llwyd Industrial Estate,
St Asaph Avenue,
Kinmel Bay,
Conwy, LL18 5JZ
Telephone number: 01924 840100.

1.3 Symbols Used

The table below includes all symbols from BS EN ISO 15223-1:2021 that can be found in this manual and on the product, and what they represent. Refer to this table when you are unsure of the meaning of a symbol.

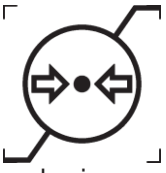
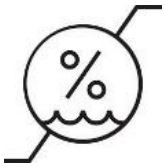
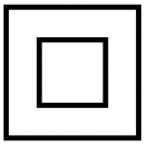
 Place of Manufacture	 Country of Manufacture	 Serial number	 Catalogue Number
 Caution – see instructions for use	 Consult instructions for use	 UK Conformity Assessed	 Safe Working Load
 For internal use only	 Packaging indicator – Keep dry	 Do not use if package is damaged	 Packaging indicator – This way up
 Fragile, handle with care	 Please observe local laws on recycling	 Non-sterile	 Atmospheric pressure limitation
 Temperature range	 Humidity range	 Class II Equipment	$IP_{N_1N_2}$ Degree of protection provided by enclosure. N1: Ingress of particles N2: Ingress of water
 Type 'B' applied part	 Type 'BF' applied part	 European Authorized Representative and Importer	

Table 1-1

1.4 Contraindications / Limitations

There are no known "contraindications" associated with the usage of a portable lift, provided it is used as per the manufacturer's recommendations and guidelines. However, it is recommended that a client-specific assessment be completed by a trained and knowledgeable healthcare professional to determine the method of transfer and use.

The manufacturer does not recommend the required number of operators for using our products. This information and recommendation can only be provided after a thorough, personalized, case-specific assessment, as many factors can influence these decisions.

Limitations of the portable lift include:

- The portable lift should only be operated by competent and trained professional healthcare workers who may have a specific range of skills in healthcare.
- The portable lift should only be used with patients weighing under the safe working load of the portable lift.
- Between the portable lift, sling, carry bar and track system, the lowest safe working load of the components should not be exceeded.
- The portable lift is only to be used within the track it is installed on. Portable lifts must only be moved by an authorized person.
- The portable lift is only compatible with the allocated slings found within this manual.
- Portable lifts are designed for human transfer only. There is no other application for this product.
- The operator of the portable lift must always pay attention to the well-being of the patient. Patients should not be left unsupervised during an operation.
- The portable lift is not designed for self-lifting. A carer must operate the portable lift during use.

1.5 Safety Instructions and Warnings

Ensure you read and understand all the statements below regarding the safety of caregivers and users, as well as the warranty requirements. Failure to follow warnings in this manual may result in injury to the operator and/or client and/or damage to the portable lift or related components.

- If you are unsure about the correct use of this product, please contact the manufacturer or a professional for further information or training.
- Ensure that the lift hook is attached securely to the eyelet of the trolley set.
- The portable lift and associated accessories are not toys. Do not use it for unsafe practices. Do not allow children to play with the product or any of its components. The portable lift should not be used for anything other than its intended use.
- In facilities where more than one operator will be responsible for using the portable lift, it is important that all such members be trained on the product before use. A training program should be set up by the facility to acquaint new operators with this equipment.
- Your guarantee is void if people unauthorized by the manufacturer perform work on the portable lift.
- To maintain optimum function, the product should be inspected and maintained on a regular basis. See the section 'Daily checks, Servicing and Cleaning' within this user manual.
- This user manual supplies a list of standard accessories that have been approved.
- The product and the associated accessories are intended only for lifting and transferring a person. The manufacturer will not be responsible for any damage caused by the misuse, neglect, or purposeful destruction of the equipment and/or its associated components.

- Any accessories used with the product should be checked before each use to ensure that they are in good working order. Check signs of wear and ensure that all labels are legible. Report any unusual wear to your local authorized dealer.

- Ensure that a clear space is kept around the portable lift. Before using the portable lift, always check for and move away any obstacles.

- Never leave a user unattended in the portable lift.

- If additional accessories have been supplied with the portable lift, refer to the instructions included with those items.

- The portable lift must be installed on the ceiling track or Free-standing Gantry before use.

- The portable lift must be installed only by people authorized by the manufacturer.

- Under no circumstances should the portable lift, track, sling, or entire system be put under the 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 significant injury to the operator and/or the individual being lifted/transferred.

- Unauthorized modifications to this product may affect its safety. The manufacturer will not be held responsible for any accident, incident or deficiencies of performance that occur because of any unauthorized modification to its products. Your guarantee is void if any modifications are made that are not authorized by the manufacturer. This includes, but is not limited to, shortening the length of the emergency red cord, for example, tying it up or cutting it.

- There are no user-serviceable parts inside the cover of the portable lift, likewise for any components of the associated parts. Do not remove cover screws or open the portable lift unit, as this will VOID THE GUARANTEE/WARRANTY.

- Never expose the portable lift directly to water. Your guarantee does not cover any misuse or abuse of the portable lift system.

- The portable lift and associated accessories, track and sling(s) are intended only for lifting and transferring a person. We will not be responsible for any damage caused by the misuse, neglect, or purposeful destruction of the portable lift and/or its associated components.

- The installation of the portable lift and its associated parts is certified to a maximum load of 440 lb. Do not exceed the maximum rated load of any of the components.

- There is a risk of explosion if the portable lift is used in the presence of flammable or explosive materials.

- Your portable lift is for human lifting. Do not use it, or allow it to be used, for any other purpose.

- In areas where children are likely to be present, be vigilant when using the portable lift.

- Protecting the people present, visually check sling loop connection points during the raising, lowering and transfer stages so the sling stays firmly attached to the carry bar.

- To reduce the risk of unintended use, when the portable lift is not in use, remove the sling(s) from the product to prevent entrapment or strangulation should the device be tampered with.

- The portable lift batteries are not user-serviceable parts. Contact your local authorized dealer to arrange for a replacement.

- Before its first use, the portable lift unit must be charged for approximately 8 hours. Refer to the section 'Charging the Portable Lift.' The handset must also be connected to the portable lift. To connect the handset, refer to the section 'Connecting the Handset to the Portable Lift.'

- Between the portable lift, carry Bar, sling, and other accessories, the lowest maximum load shall always be used.

- A risk assessment must be performed before using any other manufactured sling, carry bar or ceiling track to ensure 'safe' use can be established.

- Risk of strangulation: Please make sure the handset cable and lift tape are always clear of all people.

- Risk of impact with carry bar: Please take care to ensure the carry bar is clear of the person in the sling when preparing to raise/lower and move them to avoid any contact with that person.

- Risk of collision: The person using the portable lift should make sure that when raising, lowering, or moving the portable lift, no people or objects will obstruct, be injured or be damaged by the movement.

- Ensure that the person being lifted is always raised clear of the floor when using the lift.

- Ensure the lift tape is vertically aligned with the lift when raising or lowering the carry bar. Any deviation from this can cause the tape to fray and result in its potential failure.

- Serious Injury: If, during the use of this device or because of its use, a serious incident has occurred, please report it to the manufacturer and your national authority.

- Electric Shock: Do not insert any objects into the portable lift case or battery charging station because of the potential risk of electric shock. To reduce the risk of electric shock, do not install or use the battery charger if the cable is damaged or the unit has been dropped or damaged.

- Portable RF Communication Devices: Portable RF communications equipment (including peripherals, such as antenna cables and external antenna) should be used no closer than 30cm (12 inches) to any part of the portable lift, including cables specified by the manufacturer, otherwise degradation of the performance of this equipment could result.

- Vicinity to Other Equipment: Use of this equipment adjacent to or stacked with other equipment should be avoided, as it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

- Specified Accessories: Use of accessories, transducers, and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

- The CPP lift is not suitable for use in wet environments, such as bathrooms or wet rooms.

- Always operate the device in dry, indoor conditions to ensure user safety and prevent equipment damage. If water enters the lift, allow it to dry for 24 hours before use.

You may need to seek specialist advice on how to assist people with specific moving and handling needs. Sources of advice include, but are not limited to, professional bodies and organizations, occupational therapists, physiotherapists, manual handling advisers and ergonomists with experience in health and social care.

1.6 Electromagnetic Compatibility (EMC) Statement

The following statement has been made against the assumption that the user of the system utilizes the provided components supplied by the manufacturer of the device to operate the device as intended. DO NOT use any other form of power charge with the system as the manufacturer's adapter has been assessed and complies with the EMC requirements.

This product has been designed, manufactured, and tested in accordance with the legal requirements for the environment in which the device will be used.

Pacemakers, defibrillators, and other medical devices should be manufactured in such a manner that they can withstand Electromagnetic interference (EMI) in accordance with their associated mandatory European directives and regulations. Please consult the user alert card, which has been issued to individuals regarding the use of electrical items for those fitted with these or any other devices.

If users of this equipment are unsure of its compliance with EMC, you can request confirmation from the manufacturer that the product is manufactured to the appropriate Electromagnetic Compatibility standard.

A summary of the tests carried out in accordance with IEC 60601-1-2 is shown in the table below.

,
Using the device in the intended area will not negatively affect other devices tested according to their respective requirements.

Section	Specification Clause	Test Description	Results	Comments/ Base Standard
Configuration and Mode: Test setup standby				
2.1	4.4.1	General Requirement: Risk Management Process for ME Equipment and ME Systems	Pass	
2.2	5	Identification, Marking and Documents	Pass	
Configuration and Mode: Test setup charging				
2.3	7.1.1	Mains Terminal Disturbance Voltage	Pass	CISPR 11: 2009 A1:2010 EN 55016-2-3: 2004 + A1:2005
2.4	7.1.1	Electromagnetic Radiation Disturbance	Pass	CISPR 11: 2009 A1:2010 EN 55016-2-3: 2004 + A1:2005
2.5	7.2.1	Harmonic Current Emissions (AC Power Port)	Pass	EN 61000-3-2: 2014
2.6	7.2.2	Voltage Fluctuations and Flicker (AC Power Port)	Pass	IEC 61000-3-3: 2013
2.7	Table 4	Immunity to Electrostatic discharge (Enclosure Port)	Pass	IEC 61000-4-2 2008
2.8	Table 4	Immunity to Radiated RF Electromagnetic fields (Enclosure Port)	Pass	IEC 61000-4-3: 2006 A2:2010
2.9	Table 4	Immunity to Proximity Fields from RF Wireless Communication Equipment (Enclosure Port)	Pass	IEC 61000-4-3: 2006 A2:2010
2.10	Table 5	Immunity to Surges (AC Power Port)	Pass	IEC 61000-4-5: 2005
2.11	Table 5	Immunity to Electrical Fast Transient / Burst (AC Power Port)	Pass	IEC 61000-4-4: 2012

2.12	Table 5	Immunity to Conduct Disturbances Induced by RF Fields (AC Power Port)	Pass	IEC 61000-4-6: 2013
2.13	Table 5	Immunity to Voltage Dips and Voltage Variations (AC Power Port)	Pass	IEC 61000-4-11: 2004
2.14	Table 5	Immunity to Voltage Interruptions (AC Power Port)	Pass	IEC 61000-4-11: 2004
In-Track charging system stand testing.				
2.7	Table 4	Immunity to Electrostatic discharge (Enclosure Port)	Pass	IEC 61000-4-2 2008
Configuration and Mode: Test setup standby				
2.4	7.1.1	Electromagnetic Radiation Disturbance	Pass	CISPR 11: 2009 A1:2010 EN 55016-2-3: 2004 + A1:2005
2.7	Table 4	Immunity to Electrostatic discharge (Enclosure Port)	Pass	IEC 61000-4-2 2008
2.8	Table 4	Immunity to Radiated RF Electromagnetic fields (Enclosure Port)	Pass	IEC 61000-4-3: 2006 A2:2010
2.9	Table 4	Immunity to Proximity Fields from RF Wireless Communication Equipment (Enclosure Port)	Pass	IEC 61000-4-3: 2006 A2:2010
Configuration and Mode: Test set up operating up and down				
2.4	7.1.1	Electromagnetic Radiation Disturbance	Pass	CISPR 11: 2009 A1:2010 EN 55016-2-3: 2004 + A1:2005
2.7	Table 4	Immunity to Electrostatic discharge (Enclosure Port)	Pass	IEC 61000-4-2 2008
2.8	Table 4	Immunity to Radiated RF Electromagnetic fields (Enclosure Port)	Pass	IEC 61000-4-3: 2006 A2:2010
2.9	Table 4	Immunity to Proximity Fields from RF Wireless Communication Equipment (Enclosure Port)	Pass	IEC 61000-4-3: 2006 A2:2010
Configuration and Mode: Test setup standby				
2.1	4.4.1	General Requirement: Risk Management Process for ME Equipment and ME Systems	Pass	
2.2	5	Identification, Marking and Documents	Pass	

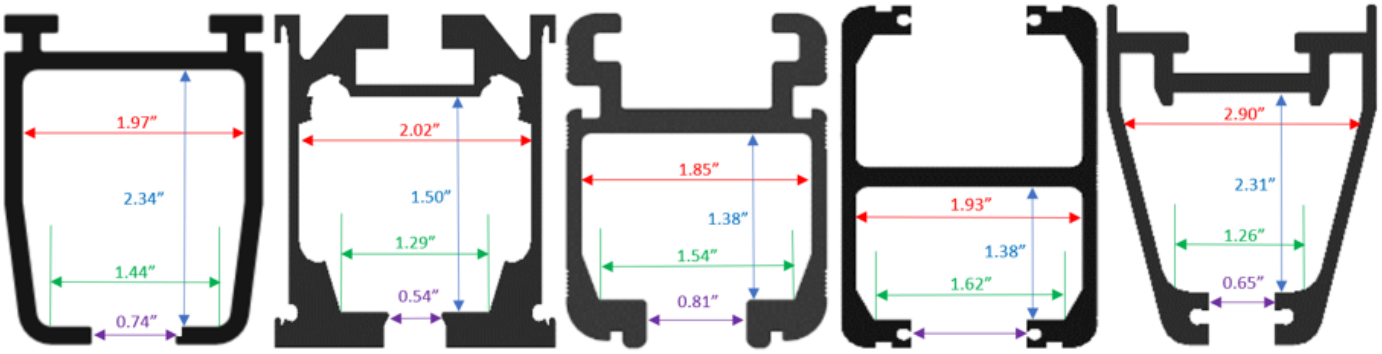
Table 1.6-1

2 Configurations and Key Components

2.1 Product Configurations

Below is a list of the track profiles into which the portable lift can be installed through the different configurations. The profiles below must match your pre-installed track for the portable lift to be installed. The table below includes all the configurations available with this portable lift.

Figure 2.1-1



Track Type 1 Track Type 2 Track Type 3 Track Type 4 Track Type 5

Portable Lift Type	Carry Bar Type	Track Type
CP440P – 108761	Black Carry Bar	Type 1
CP440P – 108778	White Carry Bar	Type 1
CP440P – 108762	Black Carry Bar	Type 2
CP440P – 108779	White Carry Bar	Type 2
CP440P – 108763	Black Carry Bar	Type 3
CP440P – 108780	White Carry Bar	Type 3
CP440P – 108764	Black Carry Bar	Type 4
CP440P – 108781	White Carry Bar	Type 4
CP440P – 108765	Black Carry Bar	Type 5
CP440P – 108782	White Carry Bar	Type 5
CP440P FSG – 108766	Black Carry Bar	FSG
CP440P FSG – 108783	White Carry Bar	FSG

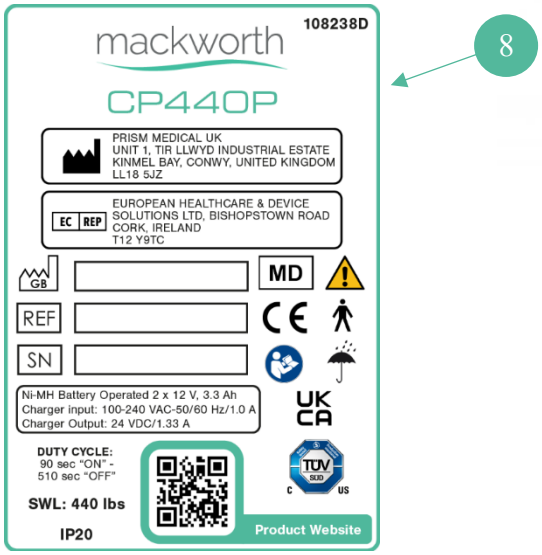
Table 2.1-1

2.2 Key Components

Please see below to familiarize yourself with the components of the CP440P portable lift. The images below show the contents of the portable lift. If you have not received all the components, contact your local dealer at once – contact details are provided on the last page of this manual.

Item	Description
1	CP440P Portable Lift
2	Lift Transition Hook
3	Trolley Set
4	Carry Bar
5	Handset
6	Portable Lift Charger
7	Reacher Pole
8	Info Label
9	User Manual

Table 2.2-1



(Located on the portable lift's side cover)

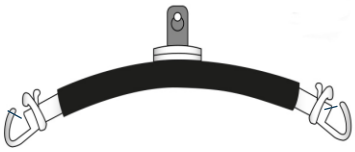
Figure 2.2-1

*Disclaimer: The label shown is for illustrative purposes only and may not represent the label affixed to the product. Refer to the product itself for accurate and current labelling information.

3 Applied Parts

3.1 Body Floating (BF) Applied Parts

A Body floating applied part is a detachable component that has medium to long-term contact with the user and carer. This includes the carry bar and sling.



Black Carry Bar

White Carry Bar

Sling

3.1.1 Carry Bar

The carry bar is an essential part of the portable lift system. The carry bar incorporates three fixing point options at either end, with a safety retaining clip on the outer hook. The carry bag is the link between the portable lift and the sling, allowing the user to be transferred. As per the guideline below, the black and white carry bars are attached to the portable lift in the same way.

To attach the carry bar, see the guidelines below:

1. Open the red retaining tab on the QRS by pushing it down. (See Figure 3.1.1-1)
2. Hold the carry bar horizontally and insert the boss into the QRS hook. (See Figure 3.1.1-2)
3. Pivot the carry bar down to its natural position and release the retaining tab to secure it. (See Figure 3.1.1-3)

Figure 3.1.1-1

Figure 3.1.1-2

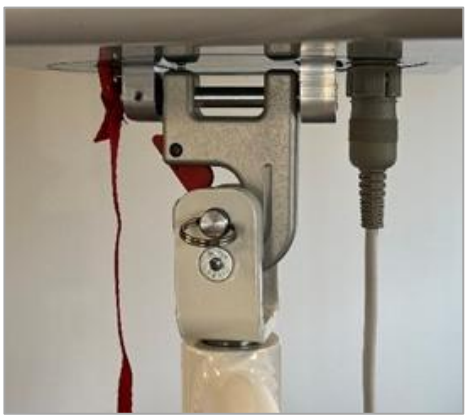


Figure 3.1.1-3

3.1.2 Slings

The sling is a specially designed fabric accessory that attaches to the portable lift using the carry bar. The sling is used to comfortably support the user during transfer. The sling is supplied separately from the portable lift at the time of purchase. To choose a suitable sling, the user should be assessed before purchase for their specific requirements. See the list below for compatible slings that are recommended for use with this portable lift. For a complete list and further information on available slings, refer to the sling user manuals.

It is at the user's discretion to use an alternative supplied product. In utilizing another manufacturer's sling, checks must first be made to ensure the sling is safe to use and meets the requirements of BS EN ISO 10535 before its use, and a complete risk assessment must be carried out before use.

Always ensure that the sling SWL aligns with the portable lift; for any component found across the system, the lowest SWL must never be exceeded.

Mackworth Sling Range	Care-Ability Sling Range
Mackworth Oak	**Universal**
Mackworth Yew	**Universal Deluxe**
Mackworth Hazel	**Toilet Access**
Mackworth Willow	**Hammock**
Mackworth Beech	**Classic Hammock**
Mackworth Pine	**Deluxe Hammock**
	Comfort In Chair Hammock
	Split Leg in Chair Hammock

Table 3.1.2-1

The way the sling is attached to the carry bar needs to be assessed on an individual basis and documented in the individual's care plan. Furthermore, the person attaching the sling should reference the sling user manual for the recommended color-coded loop attachment method and the correct fitting requirements for the user. Only after the correct fitting requirements are fully understood should the sling loops be fitted onto the carry bar.

To attach the sling to the carry bar, follow the guidelines below:

1. Pull the safety retaining clip back to access the carry bar hook. (See Figure 3.1.2-1)
2. Place the chosen sling loop onto the hook. (See Figure 3.1.2-2)
3. Release the safety retaining clip to secure the loop onto the carry bar. (See Figure 3.1.2-3)

Make sure the required loop(s) are on the correct hook and are correctly positioned.

Figure 3.1.2-1

Figure 3.1.2-2

Figure 3.1.2-3

To remove the sling, reverse the process – pull back on the spring locking mechanism, lift the loop out of the hook and release the locking mechanism.

The sling should be attached to the black carry bar in the same way as the guideline above.

3.2 Handset

The handset is an essential part of the portable lift system. There are three buttons on the handset to operate the functions: raising and lowering the carry bar and initiating the emergency lowering procedure if needed.

NEVER pull the portable lift along the track using the handset, as this could have a detrimental effect on its performance.

3.2.1 Reattaching the Handset to the Portable Lift

We recommend that the handset should never be detached from the portable lift, but if it becomes inadvertently detached, see the guidelines below to reattach the handset.

1. Connect the plug located at the end of the handset to the portable lift connection located on the underside of the portable lift. Align the handset male connector to the portable lift female connector, see Fig. 3.2-1.
2. Once the two parts are aligned, push the handset connector upwards in the portable lift port until it is fully connected and secure. Twist the thread lock on the handset connector until it is completely closed. See Fig. 3.2-2.
3. Test the handset by operating each button to ensure that the command functions as intended. (See operating instructions for further details)

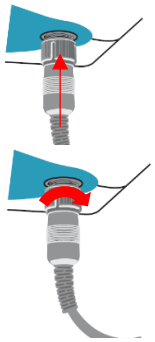
A sturdy ladder or steps may be needed to access the underside of the portable lift to attach the hand controller. Caution should be used when this is required.

Figure 3.2-1

Handset Male connector

Portable Lift Female

Figure 3.2-2



3.2.2 Handset Storage

The handset is designed to be stored in the provided case. For optimum storage and use, it is recommended to place the handset in the wall dock at one end of the track system after each use. Traverse the portable lift back to the handset dock and place the handset into the dock. Make sure that the front of the handset faces the wall with the attachment hook pointing away, see Fig. 3.2.2-1. For more detailed information, please refer to the 'Charging the Portable lift' section.

The handset can also be stored on the carry bar as a secondary storage option. The Handset case has a hook attached to the rear, which will slot onto the carry bar (See Figure 3.2.2-2). It is advocated that the handset be always stored in the handset dock or on the carry bar when not in use for safekeeping and easy access.

Figure 3.2.2-1

Figure 3.2.2-2

3.3 Transpoint Kit

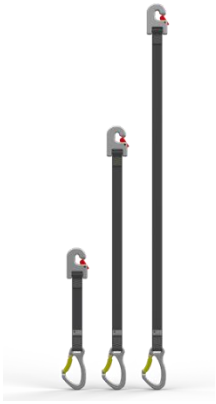
The following accessories will be required to allow the lift to move from one track to another.

3.3.1 Reacher Pole

The lift includes a 'Reacher Pole designed solely to support the transfer of the lift from one track to another. Do not use the Reacher Pole for any other purpose.

3.3.2 Transpoint Tape Carabiner

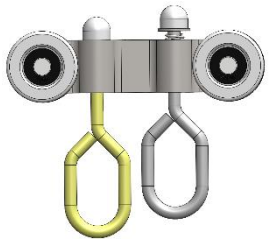
Please refer to the following information below for the three different lengths of Transpoint Tape Carabiner, which enables a lift to transfer from one track to the next and accommodate various combinations of ceiling height adjustments and carer height reaches.



Transpoint Strap	
Description	Part code
12" Transpoint Tape Carabiner	440118
24" Transpoint Tape Carabiner	440124
36" Transpoint Tape Carabiner	440128

3.3.3 Transpoint Trolley Set

The Transpoint trolley is required to allow the lift to transfer between tracks, but is not included with the lift unless specified at the time of order. If this is required once the lift has been installed, we strongly recommend that a qualified service engineer install this onto the track.



Transpoint Trolley Set	
Description	Part code
CP440P Transpoint Trolley Set	108871

Please refer to section 'Transpoint Hook Operation' for further instructions on this process.

4 Portable Lift Operation

4.1 Turning the Portable Lift ON and OFF

Figure 4.1-1 - ON

Turning the Lift On

1. Press the red tab inward to set the internal switch to the 'On' position (see Figure 4.1-1).
2. Press any button on the handset to activate the lift. The LEDs will illuminate to indicate the lift's status (refer to Section 6.1).

Figure 4.1-2 - OFF

Turning the Lift Off

1. In an emergency, pull the red cord downwards to cut all power immediately. This sets the internal switch to the 'Off' position (see Figure 4.1-2).

Automatic Shut-Off

- To conserve battery, the lift will automatically power down after approximately two minutes of inactivity
- To reactivate, press an up or down button on the handset.

4.2 Raising and Lowering the Carry Bar

To raise and lower the carry bar, operate the grey and green buttons found on the handset. The grey button raises, and the green button lowers the carry bar. The portable lift cover also provides these abilities, with the same color-coding performance functions (see Fig 4.2-1). This also aligns with the arrows found on the lift tape, see fig. 4.2-2. The red button is the Emergency lowering function. Please see the 'Emergency lowering' section for further details.

Figure 4.2-1

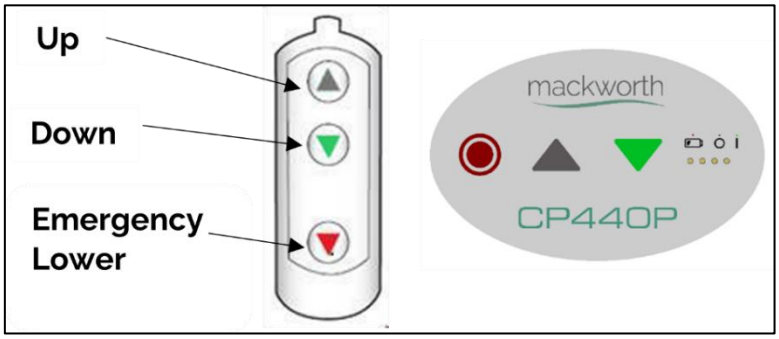
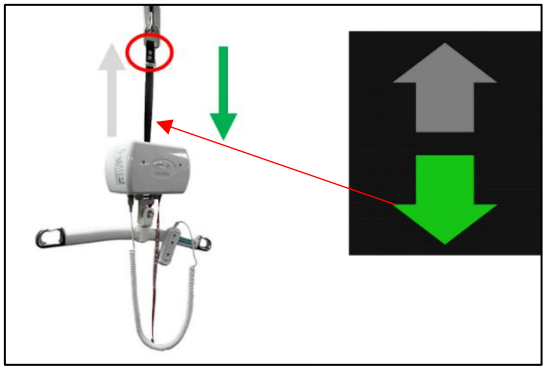


Figure 4.2-2



It is recommended that the operator holds the carry bar with one hand while raising or lowering it. This will prevent the bar from accidentally swaying or hitting an individual or a nearby object.
For the same reasons, raise the carry bar above head height when not in use and when traversing the unloaded portable lift.

In addition, the lifting tape must be kept vertically in line with the lift when raising or lowering the carry bar. Any deviation from this can cause the tape to fray, which may lead to the potential failure of the lift. Please note that if the lift fails due to improper handling, it will not be covered by warranty, and you will be liable for the replacement tape cost.

4.3 Traversing the Portable Lift

Always use extreme care when moving the portable lift along the track. Watch out for and avoid any obstructions that may cause injury to the individual in the sling, damage to the portable lift and/or damage to the obstruction.
NEVER pull the portable lift along the track using the handset, sling, or the emergency cord as this could have a detrimental effect on the performance of the portable lift.

The portable lift should be moved along the track by following the guidelines below:

1. Lower the carry bar to a suitable height to allow the carer to handle it with both hands. Always ensure the user will be at a safe distance from the floor.
2. Push or pull the carry bar in the required direction for transfer. Ensure the transfer is done safely and slowly for maximum user comfort.

4.4 Charging the Portable Lift

The portable lift is designed to be charged using the handset by placing the handset into the charging dock, which should have been fitted to the wall at one end of the track system. This will ensure that the batteries are charged regularly for peak performance and maximum life expectancy. The portable lift may remain connected to the charger indefinitely because it has a built-in regulator, removing the danger of overcharging. From full discharge, the batteries take up to 8.5 hours to reach full charge.

To begin charging the portable lift, place the handset into the charging dock, as shown in Fig. 4.4-1. The front of the handset will face the wall, with the attachment hook facing away; see Fig. 4.4-2. Slide the handset into the dock and carefully push until the dock attaches to the handset port.
To ensure the portable lift is charging, check the LEDs on the portable lift Cover are showing, charging, or charged.

Figure 4.4-1

Figure 4.4-2

The portable lift LED lights indicate the remaining charge in the batteries. Please refer to LED Indications for further detailed information. Once the batteries are low, the LED will display “yellow “, and the portable lift will sound two audible beeps, 1 second apart in 3 cycles. The portable lift will no longer lift but will lower to allow the user to exit.

4.5 Emergency Stop

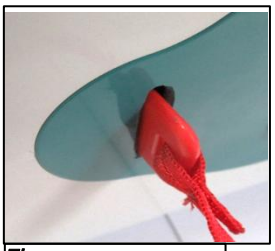


Figure 4.5-1

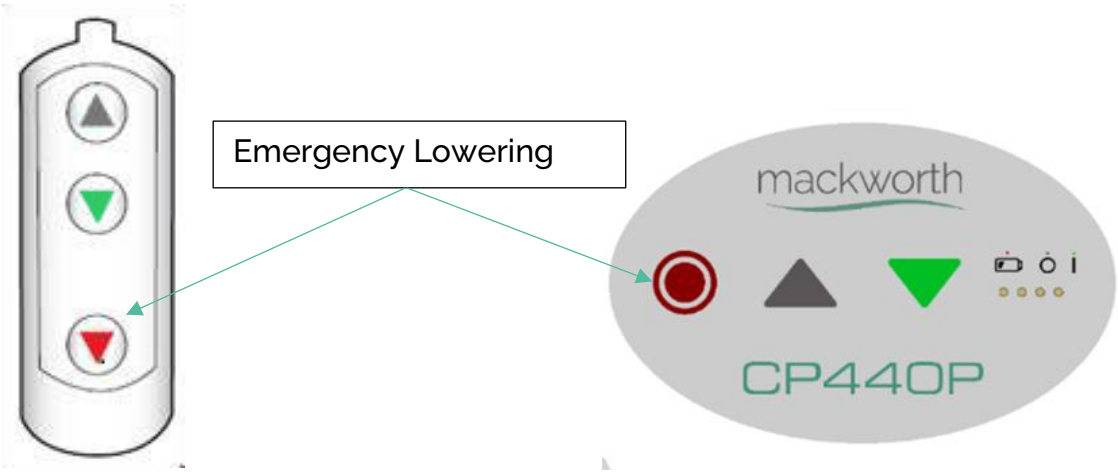
The portable lift unit has an emergency shut-off feature that allows the operator to disconnect its power. The emergency red cord/tab is located on a toggle switch on the underside of the portable lift. Pulling the toggle switch down using the red cord will shut the power off to the portable lift, see Fig 4.5-1. This should only be used in an emergency. Once the red emergency cord has been initiated, the portable lift unit will need to be reset to operate again.

The user should not re-engage the switch once the cord has been pulled. If the emergency stop has been activated, contact your local authorized dealer to report the emergency. Where applicable, a service engineer may be sent out to solve the issue with the portable lift. Do not continue to use the portable lift after using the emergency stop function; instead, contact the local authorized dealer.

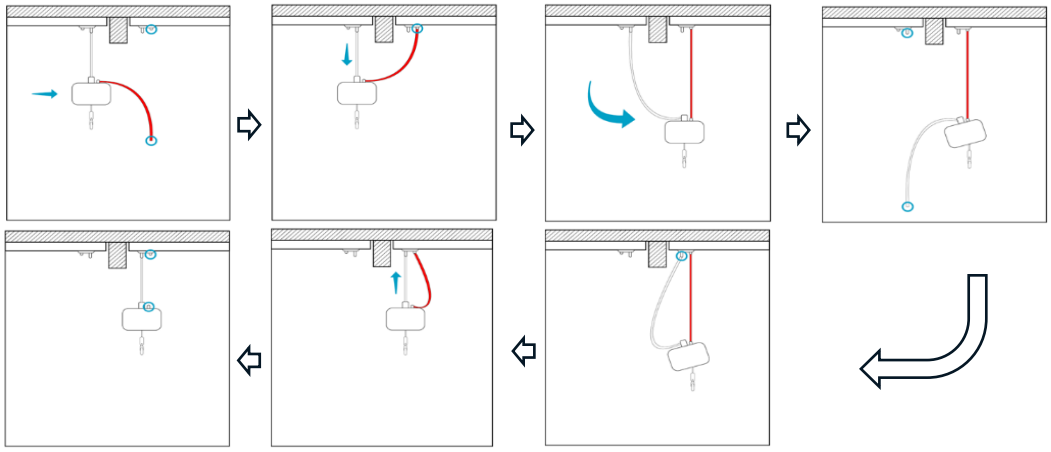
4.6 Emergency Lowering

If the DOWN button on the handset does not function, or in power failure situations, the person may be lowered by pressing down and HOLDING the red emergency buttons, which are located on the handset or the portable lift side cover.
Continually press the red button until the person is safely lowered to the desired position.

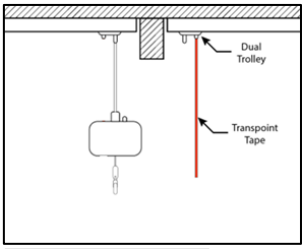
NOTE: The emergency lowering function does not provide a lifting function. The emergency lower should only be used in emergencies, such as when lowering a patient due to a damaged handset or similar situations.



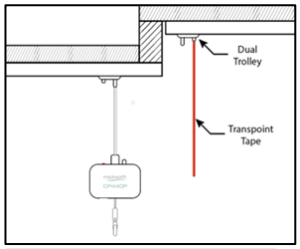
4.7 Transpoint Hook Operation



The Transpoint option allows a CP440P to easily move from one track to the next, even beneath the door header, expanding the range of track applications and transfers. Additionally, it is possible to transfer to tracks with varying ceiling height using the Transpoint. The different lengths of Transpoint strap may be utilized to accommodate any combination of ceiling height adjustment and carer height reach.



Door Header



Elevation Change

To transition a person in the lift from one track to another, follow these steps:

1. Ensure the lift and the second room trolley-set are as close together as possible by traversing the CP440P lift and second trolley to the doorway as shown in Fig. 4.7-1

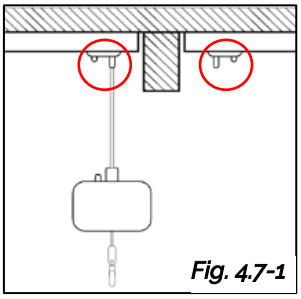


Fig. 4.7-1

2. Attach the transition strap to the transition hook on the lift, ensuring the strap is securely attached as shown below in Fig. 4.7-2.

Fig. 4.7-2

3. Attach the transition strap (lanyard) to the **gold** trolley eyelet in the second room using the Reacher Bar, see Fig. 4.7-3. For instructions on how to attach and remove the Reacher pole to the QRS Hook, please refer to the 'Reacher Pole Operation' section.

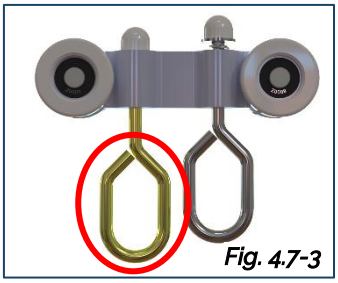


Fig. 4.7-3

4. Ensure the transition strap is securely attached to both the lift and trolley gold eyelet in the second room.
5. Lower the lift using the handset until the transition strap is fully supporting the person in the lift, at which point the lift will bleep. Pull the lift tape vertically up, as shown below in Fig. 4.7.4

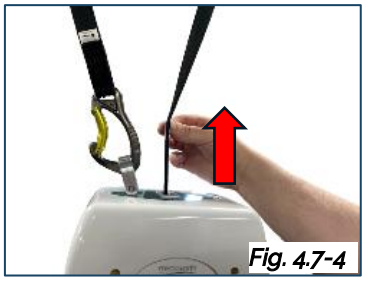


Fig. 4.7-4

6. Continue to lower until the lift tape becomes slack enough to be released from the trolley eyelet.
7. Use the Reacher Bar to remove the lift strap from the silver trolley eyelet and reattach it to the second silver trolley eyelet. The lift is now attached to the second ceiling track.
8. Finally, raise the lift until it fully supports the person in the lift, and then detach the transition strap from the lift and the trolley eyelet using the Reacher and ensure it is securely attached.

4.8 Reacher Pole Operation

Follow the guidelines below for the correct method of using a Reacher Pole to attach a portable lift to the trolley set.

1. Locate the QRS hook into the Reacher pole and pull down on the lift tape to open the QRS latch as shown in Fig.4.8-1.
2. Using the Reacher pole, raise the hook and secure it onto the trolley as shown in Fig. 4.8-2
3. Remove the Reacher pole and ensure the QRS latch is closed as shown in Fig. 4.8-3.
4. Store in a safe place.

Fig. 4.8-1

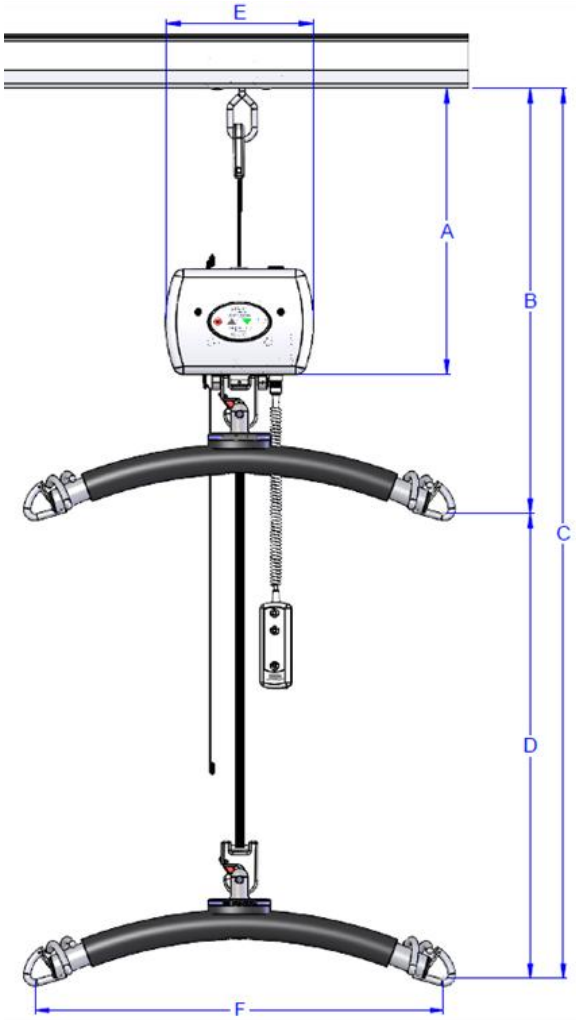
Fig. 4.8-2

Fig. 4.8-3

Fig. 4.8-4

5 Technical Specification

Portable Lift Dimensions	
A – Track to Lift	6.3"
B – Min Distance from Track to Carry Bar	20.4"
C – Max Distance from Track to Carry Bar	99.1"
D – Lifting Range	78.7"
E – Portable Lift Width	5.9"
F – Carry Bar Width	24.2"
Portable Lift Depth	7.1"



General	
User Maximum Weight	440lb
Product Weight	< 16lbs
Expected Lifetime	10 yrs
Ceiling Lift Degree of Protection	IP20
Ceiling Lift Casing Protection	Flame Retardant ABS
Carry Bar Attachment Type	Loop Style Sling
Sound Level	54 dB

Battery Specification		Charger Specification	
Battery Type	NiMH - (2x 12VDC) 3.6Ah	Charger Type	Handset Charging
Capacity – Full Cycle at Top 20" of Tape – 440lb	35 Lifts	Charger Input	100-240V AC 50-60Hz 1.0A
Maximum Charging Time	8.5 hrs.	Charger Output	24VDC/1.33A
Operating Speeds		**Motor Specification**	
Lifting Speed 0lb	2.54 in/s	Lift Motor	24VDC
Lifting Speed 440lb	0.82 in/s	Lifting Duty Cycle	15% use, 85% rest (90s use, 510s rest)
Certifications & Accreditations		**Packaging Specification**	
UKCA CE TÜV SÜD C US		Box Weight	< 25lbs
		Box Dimensions (L x W x H)	26.4" x 14.7" x 11.3"

5.1 LED Indications

The table provides details on the LED color, audible beeping, and instructions on what actions to take when each message appears. This table may help with troubleshooting.

LED 1	LED 2	LED 3	LED 4	Buzzer	Function	Action
				No	75% - 100% Battery Capacity	None
				No	50% - 75% Battery Capacity	None
				No	25% - 50% Battery Capacity	None
				No	10% - 25% Battery Capacity	None
				2 Beeps (1 sec apart) x 3 cycles	0% - 10% Battery Capacity	Charge Hoist
				No	Hoist Charging	None
				No	Hoist charged (connected to charger)	None
				2 Beeps (0.5 sec apart)	Upper limit reached	Release Up button
				2 Beeps (1 sec apart)	Lower limit reached	Release Down button
				Solid Beep	Emergency lower Activated	General Information
				No	Hoist Switched Off	General Information
				1 Beep (1 sec apart) x 2 cycles	Maximum patient load exceeded	Review loading
				No	Motor -Max temperature exceeded	Allow Hoist to cool
				No	Battery - Max temperature exceeded	Allow Hoist to cool
				3 Beeps (0.5 sec apart) x 2 cycles	Motor current delta limit exceeded	Call Engineer Promptly
				4 Beeps (0.5 sec apart) x 2 cycles	Battery voltage delta exceeded	Call Engineer Promptly
				5 Beeps (0.5 sec apart) x 2 cycles	Battery temperature sensor fault	Call Engineer Immediately
				6 Beeps (0.5 sec apart) x 2 cycles	Charging system fault	Call Engineer Immediately
				7 Beeps (0.5 sec apart) x 2 cycles	Motor temperature sensor fault	Call Engineer Immediately
				8 Beeps (0.5 sec apart) x 2 cycles	Limit switch fault	Call Engineer Immediately

Table 5-3-1

LEDs are solid.
LEDs are flashing.

6 Environmental Conditions

The sections below will give detailed information regarding the environmental conditions the product should maintain throughout its life cycle. Failure to adhere to these conditions may negatively impact the function of the product. If you are unsure of any environmental conditions, always seek advice.

6.1 Operating Environment

The portable lift is intended to be used in dry environments. The portable lift is intended for internal use only.

. . The portable lift is not intended to be used in environments where there are rapid changes in the environmental temperature and humidity.

The portable lift suffers little from lint, dust, and light.

- Lint – Due to the nature of the portable lift being installed close to the ceiling, very little lint would be likely to gain access into the portable lift's workings. The portable lift is recommended, according to the Service Guide, to be wiped clean during every portable lift inspection.
- Dust – Due to the nature of the portable lift being installed close to the ceiling, very little dust would be likely to gain access into the portable lift's workings.
- Light – The user controls have been designed to be easily recognisable, and the use of bright colours will help the user through all ranges of lighting. The Specification of the portable lift dictates that normal use would occur during an ambient luminance of 50 – 500 lux. Additionally, since the portable lift is designed for indoor use only, the user may wish to switch on the room lighting if required. The LCD on the portable lift is backlit to aid with user interaction.

6.1.1 Normal Operating Conditions

+5˚C to +40˚C (41˚F to 104˚F) at a relative humidity between 15% to 90% RH, non-condensing but not requiring water vapor pressure greater than 50hPa and atmospheric pressure between 795hPa to 1060hPa.

6.2 Storage Conditions

The portable lift is intended for internal storage within normal environmental conditions. The portable lift is intended to be stored in a dry room.
It is not intended to be stored in environments where there are rapid changes in the environmental temperature.
When storing the portable lift, ensure that the product has been cleaned and dried. For further information, refer to the 'cleaning' section instructions.

6.2.1 Shipping and Storage Conditions

-25˚C to +5˚C (-13°F to 41°F) with any humidity level.
+5˚C to +35˚C (41˚F to 95˚F) at a relative humidity up to 90%.
+35˚C to 70˚C non-condensing at a water vapor pressure up to 50hPa.

12 Hours are required for the portable lift to cool from the maximum storage temperature until it is ready for its intended use when the ambient temperature is 20˚C (68˚F).
12 Hours are required for the portable lift to warm from the minimum storage temperature until it is ready for its intended use when the ambient temperature is 20˚C (68˚F).

7 Daily Checks

Inspection is to be completed before each use by the caregiver or individual responsible for operating the portable lift.

Should any of the components in the table below fail the inspection, DO NOT use the portable lift. Contact your local authorized dealer for service – contact details are on the last page of this manual.

Ensure all component inspections on the table below are completed before each use of the portable lift.

Check List before Use:

Component	Service/Inspection required
Generic	Visual inspection of the exterior of the portable lift. Significant damage that may affect the function of the portable lift, along with a clear safety hazard, is unacceptable.
	Check the labelling on the portable lift to ensure all markings are still legible, including the serial number and other important details. If the labels are not legible, then contact your local authorized dealer immediately.
	Check all accessible and visible nuts and bolts to see if they are loose (such as the carry bar hook). If they are not tight or you have concerns, then contact your local authorized dealer immediately.
Emergency Stop Button	Check the emergency stop button functionality.
Carry Bar	Inspect the sling looped attachments for any damage, sharp edges, and excessive wear.
	Check that the carry bar rotates and swings freely and that there is no build-up of wear.
	Ensure the spring clips on the carry bar are functional and present.
Lift Tape	Inspect the lift tape for any signs of damage, such as fraying, breaking, and tearing along its entire length. Ensure to also inspect the stitching on the tape for the same signs of damage.
QRS (Quick Release Hook)	Ensure that the locking device on the QRS is closed when the carry bar is attached.
	Inspect the QRS for damage such as cracking. And ensure that the locking device is functioning correctly.
LED's	Ensure that the LEDs are all working correctly before use.
Trolley/Wheels	Ensure the wheels are traversing smoothly on the track before traversing a patient along the system. Listen for any unusual noises.
	Ensure that the locking device on the QRS is closed when attached to the trolley.
Motor	When raising and lowering the portable lift, with or without a load, listen to the motor for any unusual noises during lifting. Lower the patient immediately if an unusual noise is present.
Handset	Ensure the handset is functional, confirm the connection to the portable lift is correct, and verify all the buttons are working before operating with a patient.

7.1 Lift Tape Caution

The image (Figure 7.1-1) shows a badly worn lift tape. The portable lift should not be used until the lift tape has been replaced. Please contact your local dealer to arrange a service.

Figure 7.1-1

It is important to note that incorrect alignment of the lift tape with the lift could lead to tape fraying, causing delays in lift operations and additional expenses. For a smooth and safe operation, please ensure the lift tape is vertically in line with the lift when lowering or raising the carry bar.

8 Cleaning

To reduce the risk of cross-contamination it is recommended to clean the portable lift and accessories before use by a different person.

Please follow the recommended cleaning guidelines below for cleaning and disinfecting the portable lift.

8.1 Cover Cleaning

For cleaning, the covers can be cleaned using damp cloth, soap/water, and antibacterial spray. Do not use a steam cleaner, as this could damage the internals of the portable lift and compromise the label integrity. Do not use industrial bleaches, abrasive cleaners, or organic solvents.

All cleaning solutions must be thoroughly rinsed off the product at the end of the cleaning process, and the product must be dried using a dry cloth/towel. Always ensure the product is dry before use.

Care should always be taken when cleaning around electrical components to reduce the risk of electric shock or damage to the portable lift.

8.2 Lift Tape Cleaning/Emergency Stop Cord Cleaning

Lift tapes and the emergency stop cord can be wiped down using a dry cloth to remove any mild dirt and dust. When a spillage occurs, it is recommended to clean it up as quickly as possible to avoid any staining. It is good practice to dab the spillage rather than rub it, as this could cause staining. For more persistent stains and dirt, hot water with antibacterial spray can also be used.

All cleaning solutions must be thoroughly rinsed off the product at the end of the cleaning process and dried using a dry cloth/towel. Always ensure the product is dry before use.

8.3 Disinfecting

Should the portable lift require a more thorough cleaning, the use of the Actichlor™ disinfectant product (which is widely available in tablet form and used throughout the healthcare industry) is recommended.

Follow the manufacturer's safety instructions for this cleaning product to ensure safe use for the operator and the user.
Ensure the cloth is damp before the cleaning process.

The application is completed with a clean, damp cloth, which is used to wipe the product down. Use the following dilutions to ensure effective cleaning:

- 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 an effective means to clean a "dirty" product. 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 molds.
- A minimum of 5 minutes contact time with the outer components is recommended to prevent virucidal infections, whilst maintaining the integrity of the product. The product can withstand a longer contact period; however, a minimum of 5 minutes is required 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 manufacturer's product labelling.

Dilution chart					
Product used as	**Product condition**	**Concentration (ppm)**	**Dilution qty* (l)**	**Tablets per 1l (0.26gal)**	**Contact time (minutes)**
Bactericidal	Clean	200	5 (1.32gal)	1	1
	Dirty	1000	1 (0.26gal)	1	5
Yeasticidal	Clean	200	5 (1.32gal)	1	1
	Dirty	1000	1 (0.26gal)	1	5
Fungicidal	Clean	2000	1 (0.26gal)	2	15
	Dirty	5000	1 (0.26gal)	5	15
Mycobactericidal	Clean	1000	1 (0.26gal)	1	15
	Dirty	5000	1 (0.26gal)	5	15
Virucidal	Clean	500	2 (0.53gal)	1	5
	Dirty	1000	1 (0.26gal)	1	5
Sporicidal (C. Diff)	Clean	1000	1 (0.26gal)	1	10
	-	-	-	-	-
Sporicidal	Clean	5000	1 (0.26gal)	5	10
	-	-	-	-	-

- Dilution is made with water. DO NOT dilute within any other medium.
- When diluted in water, one tablet gives 1000ppm of available chlorine.
- The concentration of the solution depends upon whether the object being cleaned is noticeably dirty (indicated in the table by "Product condition."

Table 8-3-1

Handling and storage safety precautions when using this cleaning agent:		
Advice on Safe Handling	**Hygiene Measures**	**Conditions for Safe Storage**
Avoid contact with skin and eyes. Do not breathe dust, fumes, gas, mist, vapor, or spray. Use only with adequate ventilation. Wash your hands thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas.	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.	Keep out of reach of children. Keep the container tightly closed. Store in suitable labelled containers. Storage temperature: 0-25˚C (32-77˚F).
Individual Protective Measures	**Dissolve**	
Hand protection: Gloves	Dissolve in cold water – Without agitation, 1 tablet will take approximately 10 minutes to dissolve fully.	
The information above has been extracted from the Actichlor™ MSDS (Manufacturer's 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		

Table 8-3-2

9 Servicing

Regular service on the portable lift will help prevent breakdowns and reduce repair costs. It will also improve the quality of the product for the end users.

To reduce the risk of injury, no service is to be carried out on the portable lift while in use.
Service must be completed by an authorized service engineer only.
Do not try to service the product yourself; this will void your warranty.

To ensure the safety and continued good function of your portable lift, it is recommended to have an approved service engineer perform a routine service every 6 months; this will ensure that the product meets the required standards. It is important to document the product's service history in the service log located at the back of this user manual after each service.

When the product is serviced, the service checklist must be completed.
Service Manual Document Number: 995086.

For information about spare parts, refer to the spare parts manual.
Spare Parts Manual Document Number: 992086.

Contact your local authorized dealer if you:

- Need more information.
- If you have any questions about the use or service of your product.
- Notice any change in the performance.
- If you want to report an unexpected occurrence.
- If you want to arrange a service.
- Need to find the necessary information for replacement parts and components.

The expected product lifetime is **10 years**. This is dependent on usage and compliance with maintenance, servicing and LOLER inspections. Regular service on the product will increase the expected lifetime.

Serviceable parts within this period are batteries and the lift tape. Batteries should have an expected service life of 200 discharge cycles or 3 years, depending on the charging routine. The lift tape should have a scheduled service life of 2 years if used correctly, but visual inspection should be carried out before use.

10 Troubleshooting

Should a problem arise with the use of the portable lift, review the table below. Find the fault and complete the recommended solution. If the fault is not listed below or the solution does not correct the problem, contact your local authorized dealer at once – contact details are provided on the last page of this manual.

Fault	Action
The handset has become disengaged from the portable lift, or the Handset buttons are not responding.	Refer to the section 'Applied Parts.' If this does not correct the fault, then contact your local authorized dealer immediately so the portable lift can be checked to ensure proper continued operation.
The handset button command is continuously activated – UP, DOWN, E-LOWER.	Turn off the portable lift using the red pull cord. Contact your local authorized dealer immediately so that the portable lift can be checked to ensure continued proper operation.
No Power Part 1	If the emergency red cord has been used to stop the portable lift, it will not operate again until it has been reset. Contact your local authorized dealer immediately so that the portable lift can be checked and that it is safe to reset.
No Power Part 2	Operate the hand control to check if the portable lift activates. This can be determined from the green LED. If not present, the portable lift may be out of charge. Place the portable lift into the charging dock for a minimum of one hour to determine if this resolves the issue. If not, contact your local authorized dealer.
The portable lift LEDs show there is power, but the portable lift does not operate in the DOWN direction.	A built-in detector checks the slackness of the lift tape. This may be sensitive. Apply weight to the carry bar while pressing the DOWN button simultaneously. If this corrects the fault temporarily but not permanently, then contact your local authorized dealer so that the portable lift can be checked to ensure continued proper operation.
The red indicator light on the portable lift turns RED and/or a loud alarm sound is heard when an individual is raised.	The batteries are low and require charging. Refer to the section 'Charging the portable lift' and charge the portable lift for at least one hour before trying to raise/lower the carry bar. If this does not correct the fault, contact your local authorized dealer immediately so the portable lift can be checked for continued proper operation.
The portable lift does not pass through a track part, such as a turntable or gate.	Refer to the user manual of the specific piece of equipment in question. If the recommended solution does not correct the fault, contact your local authorized dealer immediately so that the track part and portable lift can be checked to ensure continued proper operation.
Intermittent LED– Self-Recovering	If the LED goes blank but self-recovers, there is an electromagnetic disturbance in the vicinity. If the portable lift is still operational, continue to use it and investigate the source of the disturbance.
Intermittent Motor Performance	This may be caused by an electromagnetic disturbance. If the portable lift is still operational, continue to use it and investigate the source of the disturbance. When the motor performance is compromised, contact your local service provider.

Table 12-1-1

11 Disposal

To improve the environment and reduce waste where possible, our products have been manufactured with recyclable materials. Below are our guidelines on recyclable materials and environmental friendliness.

The portable lift should be disposed of by an approved service engineer at the end of its life cycle.

Please check the local recycling laws and respect the current disposal regulations within the community where the product is being used. If there is any uncertainty regarding the guidelines below, contact your local authorities to determine the proper method for disposing of potentially biohazardous parts and accessories.

Fully recyclable:	Considerations when Recycling:
Chassis	Batteries
Plastic Covers	Wiring looms – electronics.
Metallic Internals – Hub, etc.	PCB
Initial packaging of the device (cardboard)	Hand Control
Metallic fixing – Screws, etc.	Motors
Plastic Moldings	Lift Tape
Carry Bar	Charger
Reacher Pole	
Trolley	

Table 11-1

The product may be contaminated and must be disinfected before recycling or disposal. See the section on 'Cleaning' for further details.

12 Warranty

It is impossible to eliminate all risks associated with this product, but to reduce risk and ensure safe and proper use, the user should always read and understand the user manual. Product failure may occur due to lack of maintenance and care, misuse, unauthorized and improper servicing or alterations, improper storage, environmental use, or through normal wear and tear. These factors are all beyond the control of the manufacturer. These risks are taken on by the users.

The portable lift comes with a 1-year warranty covering all manufacturers' defects. Refer to your terms and conditions for more detailed information. The warranty is valid if the product has been used as intended and the user manual instructions have been followed. The warranty will not extend to the use of the product contrary to the user manual. This guarantee does not affect or in any way limit your statutory rights.

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1. The liability of the manufacturer under the terms of this guarantee shall be limited to the replacement of the defective part(s) to the sales distributor, dealer, agent, person, or entity which purchased the equipment from the manufacturer. In no event shall the manufacturer incur liability for any consequential or unforeseeable losses.

2. This equipment guarantee shall be void if an authorized service engineer does not service the equipment in accordance with the manufacturer's recommendations or if any unauthorized persons carry out work on the equipment.

3. This guarantee does not apply to failure attributable to normal wear and tear, damage by natural forces, user neglect or misuse or deliberate destruction.

4. Do not try to service the product yourself, or the warranty is void.

5. Batteries have a warranty period of 12 months.

13 Service Record History

Complete this section after each service, repair inspection and/or maintenance.

Date:	Time:
Service Type: Service Inspection ☐ Repair ☐ Other ☐	
Completed By: .... (Printed name) .... (Signature) Company:	
Remarks & Actions Taken:	
Product Left in A Safe & Usable Condition: Yes ☐ No ☐ (if no explain in actions above)	
Date:	Time:
Service Type: Service Inspection ☐ Repair ☐ Other ☐	
Completed By: .... (Printed name) .... (Signature) Company:	
Remarks & Actions Taken:	
Product Left in A Safe & Usable Condition: Yes ☐ No ☐ (if no explain in actions above)	
Date:	Time:
Service Type: Service Inspection ☐ Repair ☐ Other ☐	
Completed By: .... (Printed name) .... (Signature) Company:	
Remarks & Actions Taken:	
Product Left in A Safe & Usable Condition: Yes ☐ No ☐ (if no explain in actions above)	
Date:	Time:
Service Type: Service Inspection ☐ Repair ☐ Other ☐	
Completed By: .... (Printed name) .... (Signature) Company:	
Remarks & Actions Taken:	
Product Left in A Safe & Usable Condition: Yes ☐ No ☐ (if no explain in actions above)	
Date:	Time:
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Completed By: .... (Printed name) .... (Signature) Company:	
Remarks & Actions Taken:	
Product Left in A Safe & Usable Condition: Yes ☐ No ☐ (if no explain in actions above)	

Date:	Time:
Service Type: Service Inspection ☐ Repair ☐ Other ☐	
Completed By: .... (Printed name) .... (Signature) Company:	
Remarks & Actions Taken:	
Product Left in A Safe & Usable Condition: Yes ☐ No ☐ (if no explain in actions above)	

Date:	Time:
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Remarks & Actions Taken:	
Product Left in A Safe & Usable Condition: Yes ☐ No ☐ (if no explain in actions above)	

Date:	Time:
Service Type: Service Inspection ☐ Repair ☐ Other ☐	
Completed By: .... (Printed name) .... (Signature) Company:	
Remarks & Actions Taken:	
Product Left in A Safe & Usable Condition: Yes ☐ No ☐ (if no explain in actions above)	

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Service Type: Service Inspection ☐ Repair ☐ Other ☐	
Completed By: .... (Printed name) .... (Signature) Company:	
Remarks & Actions Taken:	
Product Left in A Safe & Usable Condition: Yes ☐ No ☐ (if no explain in actions above)	

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Product Left in A Safe & Usable Condition: Yes ☐ No ☐ (if no explain in actions above)	
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Remarks & Actions Taken:	
Product Left in A Safe & Usable Condition: Yes ☐ No ☐ (if no explain in actions above)	

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Product Left in A Safe & Usable Condition: Yes ☐ No ☐ (if no explain in actions above)	

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Completed By: .... (Printed name) .... (Signature) Company:	
Remarks & Actions Taken:	
Product Left in A Safe & Usable Condition: Yes ☐ No ☐ (if no explain in actions above)	

Dealer/service contact details:

Contact details:

Mackworth USA
54 West Industrial Drive
O'Fallon, MO 63366 USA
314-889-1000
www.mackworthusa.com

Disclaimer

While every effort has been made to ensure the accuracy of the information contained in this manual, Mackworth cannot accept liability for any errors or omissions. Mackworth operates a policy of continuous improvement. Specifications and other data are subject to change without notice.

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