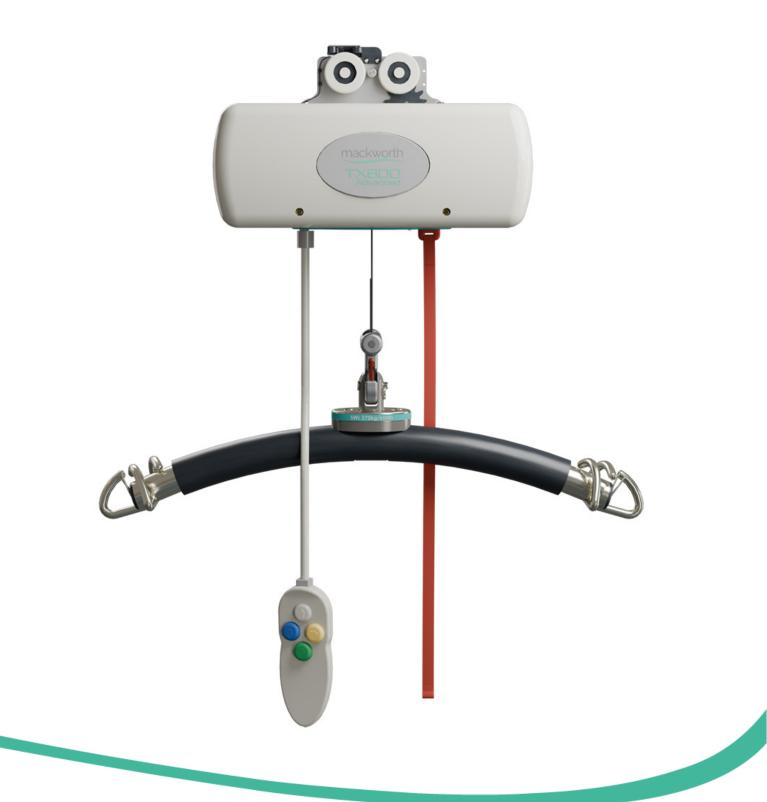
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TX Ceiling Track Lift





Revision of document: B Revision Date: 11.03.24



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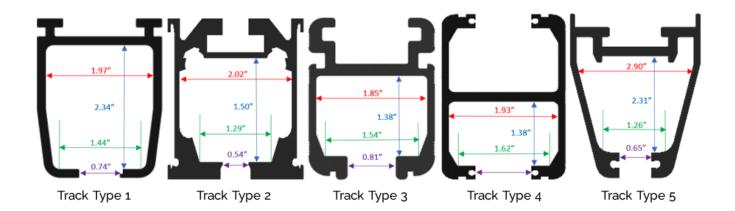
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1.0 Safety Instructions and Warnings

1.1 Introduction

This guide includes the TX440 and TX600 Ceiling Track Lifts, along with all variants for various track types. Below a list of all track profiles that the TX can be installed into through the different configurations. The below profiles must match your pre-installed track for the TX to be installed.



The list below includes all types of TX that are covered by this User Guide and which track type they are suitable for.

Lift Type	Track Type
TX440 – 122515	Туре 1
TX440 – 122516	Туре 2
TX440 – 122517	Туре 3
TX440 – 122518	Туре 4
TX440 – 122519	Туре 5
TX600 – 122520	Type 1
TX600 – 122521	Туре 2
TX600 – 122522	Туре 3
TX600 – 122523	Туре 4
TX600 – 122524	Туре 5

Table 1



As lifting and transferring a person presents a potential risk, the information in this guide is important to your safety.



Please read and understand this guide in its entirety before using your TX Lift.

The information in this guide is important for the safety of anyone near the TX Lift and must be read and understood to help prevent injuries. It is also crucial to the proper operation and maintenance of the TX Lift.

Store this guide with the documents included with the lift system and sling(s). The TX Lift is designed to be used in conjunction with Mackworth lift track, accessories and slings. Please refer to any user guides supplied with these components while reviewing this guide.

Should any questions arise from reviewing this guide, contact your local authorized dealer.

Failure to comply with warnings in this guide may result in; injury to the operator and/or client and/or damage to the Ceiling Track Lift or related components.

Contents of this guide are subject to change without prior notice.



Do not attempt to use this equipment without first understanding the contents of this guide.

Unauthorized modifications on any Mackworth product may affect its safety. The manufacturer will not be held responsible for any accident, incident or deficiencies of performance that occur as a result of any unauthorized modification to its products.

1.2 Manufacture Authorized

The lift 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 840 100

1.2 European Authorized Representative

The address of the European Authorized Representative for this product:



European Healthcare & Device Solutions (Ireland) Ltd. Stratton House, Bishopstown Road, Cork, Ireland. T12 Y9TC. Telephone number: +353(86)2280846



1.4 Symbols Used

The Table below includes all Symbols from BS EN ISO 15223-1:2016 that can be found in this Guide and on the Product and what they represent. Refer back to this Table when you are unsure of what a symbol represents.

			1
	Consult instructions before use		Caution – see instructions for use
	Class II Equipment - electrical equipment in which protection against electric shock does not rely on basic insulation only	SWL	Safe Working Load represents the maximum load rated for safe operation
	Manufacturer		Date of manufacture
THIS WAY UP	Packaging indicator – This way up	Ţ	Packaging indicator – Keep dry
SN	Serial number		For internal use only
X	Please observe local laws on recycling	$IP_{N_1N_2}$	Degree of protection provided by enclosure. N ₁ : Ingress of particles N ₂ : Ingress of water
X	Temperature range	<i>%</i>	Humidity range
	Atmospheric pressure range	Ŕ	Type 'B' applied part
REF	Catalogue number	×	Type 'BF' applied part
UK CA	UK CA	EC REP	European Authorised Representative



1.5 Contraindications/Limitations

There are no known "contraindications" associated with the usage of the TX Lift and its accessories, provided they are used as 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. Mackworth 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.

1.6 Intended Use

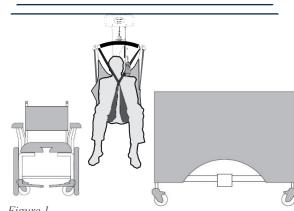
For internal use only.

This guide includes the TX440 and TX600 Ceiling Track Lifts, along with all variants for various track types.

All models of TX440 found in Table 1 below have a Safe Working Load (SWL) of 440 lb (202kg). All models of TX600 found in Table 1 below have a Safe Working Load of 600lb (272kg).

The TX lift is a raising and lowering aid used to transfer people safely. The Lift 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 person being moved.

The easy to use lift is designed to be operated by both professional health care workers and home health care workers who may not have a specific range of skills in health care. Typical home care users may include, but is not limited to, teachers, medics, paramedics, carers, family and friends. Focusing on the dignity and wellbeing of the person being moved, the simple to use lift maximizes the amount of care provided to the person.





The TX lift is a Ceiling Track Lift, and should only be used whilst on the Ceiling Track. It has the ability to raise up an individual from one location, such as a bed, move the individual along the track to another location and finally lower the individual, such as into a chair or a bath.

The TX is intended to be used with Mackworth/Care-ability slings and the Ceiling Track system. Together these three items make up the system. Please refer to any user guides supplied with the sling and track system and reference them while reviewing this guide.



A risk assessment must be performed before using any other manufactured sling, carry bar or ceiling track to ensure 'safe' use can be established. The device is used under instruction and the operation of the aid is undertaken by a trained caregiver.

The carry bar is manufactured by Mackworth, associated for use with this device, incorporates three fixing point options at either end of carry bar, with a safety retaining clip on the outer hook. The fixing can be derived by the user, by means of a simple connection loop, made by the sling, to the carry bar. This connection system is used throughout the industry in various designs but all acts as the means to hold the sling and user in place through operation of the device while in use.

The sling is a specially designed fabric accessory that attaches to the Lift by means of a carry bar and strap system, and holds an individual while the lift or transfer takes place. The sling is supplied separately from the lift at the initial time of purchase.

The track, also supplied separately from the lift at the time of purchase, is the means to operate the lift in a defined safe route, enabling the person different uses around the "travel" of the lift.



- If additional accessories have been supplied with the lift, refer to the instructions included with those items.
- The TX Lift must be installed on the ceiling track prior to use.
- The TX Lift must be installed only by persons authorized by Mackworth who have had the training to do so.
- Under no circumstance should the TX Lift, track, sling or entire system 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 lifted / transferred.
- In facilities where more than one operator will be responsible for using the TX Lift and associated systems and sling(s) it is imperative that all such members be trained in the lift's proper use. A training program should be established by the facility to acquaint new operators with this equipment.
- Your guarantee is void if any modifications are made that are not authorised by Mackworth. This includes, but is not limited to, shortening the length of the emergency red cord for example, tying it up or cutting it.
- The TX Lift, and associated track and sling are not toys. Do not use it for unsafe practices. Do not allow children to play with the lift or any of its components.
- Your guarantee is void if persons unauthorized by Mackworth perform work on the lift systems.
- There are no user serviceable parts inside the cover of the lift, likewise for any components of the associated parts. Do not remove cover screws, or open the lift unit, as this will VOID THE GUARANTEE/WARRANTY.
- Never expose the TX Lift directly to water. Your guarantee does not cover any misuse or abuse of the lift system.
- To maintain optimum function, the TX Lift should be inspected and maintained on a regular basis. See section 'General Inspection, Maintenance and Cleaning' within this user guide.
- Any accessories used with the TX including track and sling(s), should be checked to ensure that they are in good working order. Check for signs of wear to each component prior to use. Report any unusual wear, or damage immediately to your local authorized dealer.
- The TX Lift and associated accessories, track and sling(s) are intended only for lifting and transferring of a person. Mackworth will not be responsible for any damage caused by the misuse, neglect or purposeful destruction of the lift, and/or its associated components.
- The installation of the lift and its associated parts are certified to a maximum load of 440 lb (200 kg) / 600 lb (270 kg), depending on the model. Do not exceed the maximum rated load of any of the components.
- There is a risk of explosion if the lift is used in the presence of flammable anaesthetics.
- Ensure that a clear space is maintained around the lift and track. Before performing a transfer check for and move all obstacles out of the way.
- Your Lift is for human lifting. Do not use it, or allow it to be used, for any other purpose.
- Protecting the people present, visually monitor sling loop connection points during raising, lowering and transfer stages so the sling remains firmly attached to the carry bar.
- In areas where children are prone to be present be vigilant when operating the llft.



- To reduce the risk of unintended use, when the Lift is not in use remove the sling(s) from the product to prevent entrapment or strangulation should the device be tampered with.
- The Lift batteries are not a user serviceable part. Contact your local authorized dealer to arrange for replacement.
- Before initial use, the lift unit must be charged for approximately 8 hours. Refer to section 'Charging the Lift'. The handset must also be connected to the lift. To connect the handset refer to the section 'Connecting the Handset to the Lift'.
- Between the lift, carry bar, sling and other accessories, the lowest maximum load shall always be used.



You may need to seek specialist advice on how to assist some people with specific moving and handling needs. Sources of advice include, but is not limited to, professional bodies and organisations, occupational therapist, physiotherapists, guide handling advisers and ergonomist with experience in health and social care.

1.7 Additional Warnings and Safety Notices



Risk of strangulation: Please make sure handset cable and lift tape are clear of all persons at all times.

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 operating the lift should make sure that when raising, lowering or moving the lift that no people or objects will obstruct, be injured or damaged by the movement.

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

Electric Shock: Do not insert any objects into the lift case or battery charging station because of potential risk of electric shock. To reduce the risk of electric shock, do not install or operate the battery charger with a damaged cable or if 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 TX Ceiling Track 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.

1.8 Operating Environment

The TX Lift is suitable for use within the professional health care facility environment as well as the home health care environment. The lift is not suitable for any special environments.

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



1.9 Essential Performance

The essential performance of the lift is defined as: Raise up, lower down, traverse left, and traverse right and emergency lower.

These functions may be interrupted if the lift is subjected to any electromagnetic field created by other electrical devices which are located nearby.

In the event of electromagnetic disturbances, the following conditions may occur:

- 1. Should the display screen go blank, or become unreadable, but eventually self recovers and there is detrimental effect to performance, continue to use but investigate source of electromagnetic disturbance.
- 2. Should the display screen go blank, or the charging status bulb continue to flash red or green, the lift is still acceptable to be used, but investigate EMC source and contact your service provider at the soonest opportunity.
- 3. Should the motors pause temporarily, the lift can be continue to be used but investigate EMC source and contact your service provider at the earliest convenience.

1.10 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, manufactured by Mackworth, has been designed, manufactured and tested in accordance with the legal requirements for the environment in which the device will be used within.

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

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

A brief summary of the tests carried out in accordance with IEC 60601-1-2 is shown below in Table 3.

The lift is also classified as Class B according to CISPR 11:2009 for the home health care environment.

The use of the device within the correct area where the intended use is given will have no detrimental effect on other devices that have been tested to their intended respective requirements.

	Clause	Test Description	Results	Comments/ Base Standard
onfiguration and	d Mode: Test set	up standby		
2.1	4.4.1	General Requirement; Risk	Pass	
		Management Process for ME		
		Equipment and ME Systems		
2.2	5	Identification, Marking and documents	Pass	

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2.3	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	7.2.2 Voltage Fluctuations and Flicker (AC		IEC 61000-3-3: 2013
2.7	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 CommunicatioOn 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
n-Track charg	ging system stand t	esting		
2.7	Table 4	In the second	Pass	IEC 61000-4-2 2008
2.7	Table 4	Immunity to Electrostatic discharge (Enclosure Port)	1 8 3 3	120 01000-4-2 2008
	and Mode: Test se	(Enclosure Port)	1 033	120 01000-4-2 2008
		(Enclosure Port)	Pass	CISPR 11: 2009 A1:2010
Configuration	and Mode: Test se	(Enclosure Port) tup standby Electromagnetic Radiation Disturbance Immunity to Electrostatic discharge		
Configuration 2.4	and Mode: Test se	(Enclosure Port) tup standby Electromagnetic Radiation Disturbance Immunity to Electrostatic discharge (Enclosure Port) Immunity to Radiated RF	Pass	CISPR 11: 2009 A1:2010 EN 55016-2-3: 2004 + A1:2005
2.4 2.7	and Mode: Test se 7.1.1 Table 4	(Enclosure Port) tup standby Electromagnetic Radiation Disturbance Immunity to Electrostatic discharge (Enclosure Port)	Pass Pass	CISPR 11: 2009 A1:2010 EN 55016-2-3: 2004 + A1:2005 IEC 61000-4-2 2008
2.4 2.7 2.8 2.9	and Mode: Test se 7.1.1 Table 4 Table 4 Table 4	(Enclosure Port) etup standby Electromagnetic Radiation Disturbance Immunity to Electrostatic discharge (Enclosure Port) Immunity to Radiated RF Electromagnetic fields (Enclosure Port) Immunity to Proximity Fields from RF Wireless CommunicatioOn Equipment	Pass Pass Pass	CISPR 11: 2009 A1:2010 EN 55016-2-3: 2004 + A1:2005 IEC 61000-4-2 2008 IEC 61000-4-3: 2006 A2:2010
2.4 2.7 2.8 2.9	and Mode: Test se 7.1.1 Table 4 Table 4 Table 4	(Enclosure Port) Etup standby Electromagnetic Radiation Disturbance Immunity to Electrostatic discharge (Enclosure Port) Immunity to Radiated RF Electromagnetic fields (Enclosure Port) Immunity to Proximity Fields from RF Wireless CommunicatioOn Equipment (Enclosure Port)	Pass Pass Pass	CISPR 11: 2009 A1:2010 EN 55016-2-3: 2004 + A1:2005 IEC 61000-4-2 2008 IEC 61000-4-3: 2006 A2:2010 IEC 61000-4-3: 2006 A2:2010 CISPR 11: 2009 A1:2010
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Configuration 2.4 2.7 2.8 2.9 Configuration 2.4 2.7 2.8 2.7 2.8 2.9	and Mode: Test set 7.1.1 Table 4 Table 4 Table 4 and Mode: Test set 7.1.1 and Mode: Test set Table 4 Table 4 Table 4 Table 4	(Enclosure Port) tup standby Electromagnetic Radiation Disturbance Immunity to Electrostatic discharge (Enclosure Port) Immunity to Radiated RF Electromagnetic fields (Enclosure Port) Immunity to Proximity Fields from RF Wireless CommunicatioOn Equipment (Enclosure Port) et up operating up and down Electromagnetic Radiation Disturbance Immunity to Electrostatic discharge (Enclosure Port) Immunity to Electrostatic discharge (Enclosure Port) Immunity to Radiated RF Electromagnetic fields (Enclosure Port) Immunity to Proximity Fields from RF Wireless CommunicatioOn Equipment (Enclosure Port)	Pass Pass Pass Pass Pass Pass Pass	CISPR 11: 2009 A1:2010 EN 55016-2-3: 2004 + A1:2005 IEC 61000-4-2 2008 IEC 61000-4-3: 2006 A2:2010 IEC 61000-4-3: 2006 A2:2010 CISPR 11: 2009 A1:2010 EN 55016-2-3: 2004 + A1:2005 IEC 61000-4-2 2008 IEC 61000-4-3: 2006 A2:2010

Table 3



2.0 Components/Key Parts

Please see below to familiarize yourself with the components of the Mackworth TX Lift. The images below show the contents of the Ceiling Track Lift. If you have not received all the components contact your local Mackworth dealer immediately – contact details are provided on the last page of this guide.

Item	Description	Part Numbers
nem	Description	
1	TX Lift	122515, 122516, 122517, 122518, 122519,
		122520, 122521, 122522, 122523, 122524
2	Carry Bar	300024
3	Handset	122073
4	Lift	122100
	Charger	
5	Allen Key	122093
6	User	999553
	Guide	

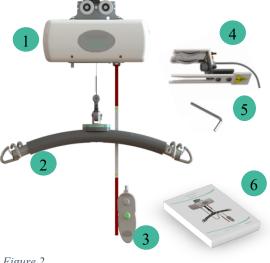


Table 4

2.1 Unpacking

Figure 2



The lift will arrive to you in a robust box, please be careful when removing the components from the box. Please read the user guide in full before operating.

This user guide should be kept safe for future reference.

The lift has been specifically designed to be installed in both the professional and home health care environments.

No matter the environment, health and safety factors should be considered to ensure the safety and essential performance of the lift and to avoid unnecessary damage or injuries to people within the area of the lift.



When using a sharp knife, be careful not to damage the product.

This section will summarize the layout of the lift packaging and what is included in the Box. It is recommended a knife is used for smoother unpacking of the lift. The lift is packed into a single box (11"x26.5"x14.5"), weighing approximately 33lb.

Using a knife to open the box around the perimeter, the box should open, remove the internal packaging to access the product. It will include all the components listed above.

Please see below to familiarize yourself with the components of the TX Lift. The images below show the contents of the lift package. If you have not received all the components contact your local Mackworth dealer immediately - contact details are provided on the last page of this guide.





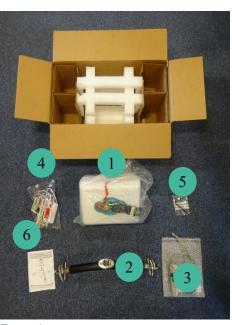


Figure 4



3.0 Installation

The TX lift has been specifically designed to be installed in both the professional and home health care environments.

No matter the environment, health and safety factors should be considered to ensure the safety and essential performance of the lift and to avoid unnecessary damage or injuries to people within the area of the lift.

Typical examples include: radiated heat (e.g. from a heater or fire place), excessive moisture impacting electrical performance (e.g. from a bathroom or kitchen area) and the correct storage of the lift after use (e.g. handset position on the carry bar).

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

This guide covers the safety and advice for the TX and moving and handling risks can be done in-house, as long as the person is competent to identify and address the risks.

Refer to the Set Up guide document which outlines the correct procedure to install the product. Document Number: 996553.

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



A Mackworth approved dealer must install the lift.

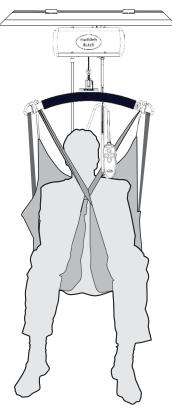


Figure 5



4.0 Type 'BF' Applied parts

Below shows the two parts of the lifting system, which are classed as Body Floating (BF) applied parts. The carry bar is a complete assembled unit which allows approved Prism slings to be attached, to lift and assist patient. See section 5.1 for instructions to attach carry bar to lift system and 5.2 to attach an approved sling to the carry bar. To see Prism Medical UK approved sling list see table 5 and 6.





5.0 Frequently Used Functions

5.1 Carry Bar

Attach the carry bar (type 'BF applied part) into the hook on the lift tape, located at the end opposite to the lift, in the following way:

- 1. On the hook, move the locking mechanism into the hook by pressing down on the tab (Figure 6 and 7).
- 2. With the carry bar positioned sideways along the length of the bar, move the pin at the top of the carry bar into the hook (Figure 8).
- 3. Alternatively, with the carry bar positioned sideways, the pin at the top of the carry bar can gently push the locking mechanism out of the way as the pin is carefully moved into the hook.
- 4. Once the pin is in the hook, rotate the carry bar 90° down so the carry bar is hanging below the hook on the pin in the hook. Move the locking mechanism into place by pushing up on the tab, securing the carry bar on the hook and lifting tape. (Figure 10 and 11)

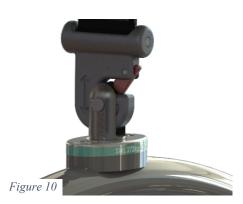




Figure 7



Figure 8



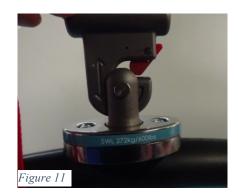


Figure 9



5.2 Sling

The way the sling is attached to the carry bar needs to be assessed on individual basis and documented in the individual's care plan. Furthermore, the person attaching the sling to the carry bar should reference the user guide for the specific sling in use as attachment points vary depending on the application and type.

Only after the correct attachment is fully understood should the sling loops be fitted onto the carry bar in the correct order. Sling loops should be attached as follows:

- 1. Put the required sling loop onto your finger and thumb and then using the same finger or thumb, pull back the spring locking mechanism on the correct hook on the correct side of the carry bar (Figure 12).
- 2. Slide the sling loop from your finger and thumb over the edge of the hook (Figure 14 and 15).
- 3. After positioning the loop below the locking mechanism (Figure 15) release the spring locking mechanism to secure the sling loop. (Figure 16)



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



Figure 12

Figure 13





Figure 15



Figure 16

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

We recommend the use of Mackworth manufactured sling range (type 'BF' applied part) to be utilized with the TX Lift. It is at the user's discretion to use 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 full risk assessment to be carry out before use.

The Mackworth slings with a safe working load of 600 lb (272 kg) or more that can be used with the TX Lift refer to the sling guide at www.mackworthusa.com/ceiling-lift-slings.html



Should the grey rubber airline that connects the handset to the lift become disengaged from the underside of the Lift it must be re-connected in order for the lift to work.

The rubber airline may become disconnected for the following reasons:

- 1. The lift is pulled along the track by the handset.
- 2. The tubing accidentally gets wrapped around an object while a lift or transfer is being performed.
- 3. It is accidentally pulled out by the lift operator or the individual being lifted.

In this section the correct procedure on attaching the Handset will be determined.

The Pneumatic Handset is attached to the lift through the Airline Grommet on the underside of the lift as shown in Figure 19. While holding the Airline Connector at the end of the Handset Air Tubes, locate the two small metal ribbed pins with the Airline Grommet on the lift. To correctly locate, ensure the profile of the two parts are lining up, this means the grey rib profile, which faces inwards on the lift aligns with the grey rib on the Handset, this is the only way the Handset can be connected, therefore it is not possible to incorrectly mate the two parts.

Once the two parts have been aligned, ensure that the Handset is pushed into the Grommet properly, with both metal pins being fully inserted into the Grommet. This is important to ensure there is no air leak which will affect the lift functionality.



Figure 17



Figure 18



Figure 19

Perform a brief test to ensure proper connectivity. If the lift is OFF, turn it ON. Use the handset to RAISE and LOWER the carry bar. For powered traverse lifts, also check the lift correctly moves FORWARD and BACK along the track using the handset. See section 'Lift Operation' for details of how to perform these functions. If these operations all work as intended, then the handset is correctly connected to the lift.

If the lift does not work properly, check to ensure that the grey ribs on the grey rubber grommet on the underside of the lift and the airline tubing are lined up properly.

If they are not lined up properly, then remove the airline, line up the grey lines and then re-insert it into the rubber grommet. Perform the brief test as described previously. If there are still problems with the lift, then contact your local Mackworth authorized dealer for service.

To remove the handset, follow the procedure above in reverse.

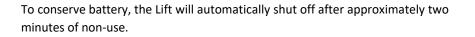




6.0 Lift Operation

6.1 Turning the Lift ON and OFF

To operate the lift, it must first be turned ON via the toggle switch on the lift itself (see figure 21). This toggle switch has three states, On, Off and E-Lower. To turn the lift on, the Toggle Switch must be pressed vertically into the slot. Once this is done, press any button on the handset to "wake up" the lift. Once a button has been pressed the Display screen will turn on and the LED will display a steady green.





If the batteries of the lift are low and require charging, the LED indicator light located on the lift will turn ORANGE and flash (see LCD Display Status Indications further in the user guide) depending upon the level of discharge, and an audible buzzing alarm will sound when the level gets critical until charging takes place.

6.2 Raising and lowering the carry bar

By pressing the UP or the DOWN arrow button on the handset, the carry bar can be raised or lowered to the correct height for attaching the sling or positioning an individual. The UP/DOWN functions of the handset buttons are in relation to the travel of the lift. That is, the grey button at the top end of the handset activates the UP motion of the carry bar and the Green button activates the DOWN motion (Figure 22).

Shown in the image below are the 2 functions of the hand controller for the lift.





The Lift Tape includes arrows that corresponds with the colour scheme on the Handset to indicate the correct UP and DOWN button.



Figure 24

It is recommended that the operator hold the carry bar with one hand while raising/lowering is being done. This will stop the bar

accidentally swaying and/or coming into contact with an individual or close object. For the same reasons, raise the carry bar above head height when not in use and when traversing the unloaded Lift.

6.3 Handset Storage

The Handset is designed to be stored onto the carry bar. The Handset has a hook attached to the rear face which will slot nicely onto the carry bar, as shown in figure 25. It is recommended that the Handset be stored on the carry bar at all times when not in use for safe keeping and easy access.



Figure 25



6.4 Moving the Lift along the track system



Always use extreme care when moving the lift along the track. Watch out for and avoid any obstructions that may cause injury to the individual in the sling, damage to the lift and/or to the obstruction.

After use, the lift should be located at the correct end of the track system for re-charging.

When needed, the lift should be moved along the track using the following appropriate method:

To Traverse the lift, you must first lower the carry bar to an appropriate height to hold onto with both hands. Then the user must hold the carry bar with both hands either side of the lift tape, and push or pull the lift along the track in the intended direction of travel to the required destination. This process applies when moving the lift with and without a patient in the sling. When there is a patient being transferred, ensure they are at a reasonable height above the ground to ensure they are not being dragged along the floor, or hit any obstructions. Always ensure the direction of travel is clear of any obstacles.



NEVER pull the lift along the track using the handset or the Emergency Cord as this could have a detrimental effect on the performance of the Lift.

6.5 Charging the Lift

The lift will indicate when charging is required. The light will turn ORANGE on the lift control panel and a slow beeping audible alarm will sound if the batteries are low and require charging. The display screen will also indicate low battery. (Figure 28) Complete the transfer that is in progress and then move lift to the end of the track where the charger is located.

If the lift is not charged, following the ORANGE indicator, the light will turn RED on the lift control panel and a fast beeping audible alarm will sound. These indicate the batteries are discharged and require charging. The display screen will also indicate "Up: Inhibit!" which will disable the UP function. The DOWN and EMERGENCY DOWN function will continue to operate for one cycle – enabling the person to be safely lowered and for the lift to be returned to the charge point.

At the end of each use of the lift, it is recommended that it be returned to the charging dock for placement and charging. This will ensure that the batteries are charged on a regular basis for peak performance and maximum life expectancy. The lift may remain connected to the charger indefinitely because the lift has a built-in regulator, removing the danger of overcharging.

The TX Lift is designed for in track charging. This is charged by the charging dock installed in the track. A charging dock should have been fitted during the installation of the lift. (Figure 26)

To Traverse the TX, simply manually traverse the lift along the track to the charging dock at the far end of the track. Once the lift has made contact, it should begin charging immediately (Figure 27). The LED will begin to flash orange when charging, (see LCD Display status indications further in the user guide)



Do not traverse the lift with excess speed or force into the dock as this could damage the lift and the dock. Use only the charger that was supplied with the lift or provided as a replacement. Use of any other charger will void all warranties and may cause damage to the lift.





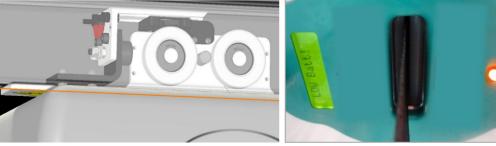


Figure 26

Figure 27

Figure 28



6.6 Emergency Operation

6.6.1 Emergency Stopping

The lift unit has an emergency shut-off feature that allows the operator to completely stop power to the lift.

By pulling down ONCE on the emergency red cord, located underside of the lift unit, the powered functions will stop working immediately (Figure 29).

Beeping once, the display and the LED indicator light will turn off. The emergency shut-off tab, located underneath the Lift case where the emergency red cord enters the case, will pop out.

Once the red emergency cord is released, the lift unit will need to be reset in order to operate again. To reset, the toggle switch must be pressed in as shown in section 5.1 "Turning the lift ON and OFF". **This should only be done by an authorized dealer.**



Figure 29

The emergency stopping feature must only be used in an emergency. If the Emergency Stop has been activated, contact your local authorized dealer to report the emergency and where applicable, a service technician may be sent out to solve the issue with the lift. Do not continue to use the Lift after using the emergency stop function before contacting the local authorized dealer. (See the last page of this guide for contact details).

Once the lift has been reset, simply press any button on the handset to resume power.

6.6.2 Emergency Lowering

In the event that the DOWN button on the handset does not function, or in power failure situations, the person may be lowered by pulling down and HOLDING the red emergency cord. The emergency cord is located underneath the Lift unit (Figure 29).

Continue to pull down on the emergency red cord until the person is safely lowered to the desired position. The unit will continue beeping until the red cord is released.

NOTE: The emergency lowering function does not provide a lifting function. The Emergency Lower should only be used in an emergency, such as lowering a patient due to damaged handset etc.

Once the emergency red cord is released, the lift unit will need to be reset in order to operate again. To reset, the toggle switch must be pressed in as shown in section 5.1 "Turning the Lift ON and OFF".

Contact your local authorized dealer to report the emergency and where applicable, a service technician may be sent out to solve the issue with the lift. Do not continue to use the lift after using the emergency lower function before contacting the local authorized dealer. (See the last page of this guide for contact details).

Once the lift has been reset, simply press any button on the handset to resume power.



6.6.3 Manual Emergency lowering

The manual emergency lowering should only be used if when the emergency lowering cord fails, due to total power loss. The manual E-Lower is a last resort safety feature for when a patient is suspended and cannot be lowered.

To operate, remove the Cap from the side cover of the lift (Figure 30). Insert the 4mm Allen Key that is provided with the lift, into the Motor unit inside the cover. (Figure 31) Gentry wind the Allen key to manually operate the Lift Motor and safely lower the patient.

After use, remove the Allen key and re-insert the grommet back into the plastic cover.





6.7 LCD Display Screen Functionality

The table below includes the details on all user display messages, it also includes the LED colour, the audible beeping and instructions on what actions to take when each message appears. This table may help for troubleshooting.

Display Message	Message explanation	LED colour	Beep sound	Instruction
LOW Batt!	Battery Status LOW	Orange	1 Beep Repeat	Place lift on charge as soon as possible
Charged	Batteries Fully Charged	Green	None	Batteries full - remove from charging dock
Charging	Charging Currently Active	Orange flashing	None	None - Batteries are charging
Up	Lift Lifting Active	Green	None	None - Informative only
Down	Lift Lowering Active	Green	None	None - Informative only
No Lim_Sw!	Limit Switch Fault	Green	Constant Beep	Contact Service Center
UP: Inhibit!	Battery Capacity TOO LOW to Lift	Red	3 Beep Repeat	Place lift on charge immediately
Up Lim_Sw!	Up Limit Switch Active	Green	None	None - Informative only, press Down to continue
Down Lim_Sw!	Down Limit Switch Active	Green	None	None - Informative only, press Up to continue
HIGH CURRENT	High Current Draw from Lift Motor	Green	Beep for 1 Second	Contact Service Center
PM Due	Preventative Maintenance Due	Green	Beep every 30 minutes	Contact Your Mackworth Dealer

Table 7

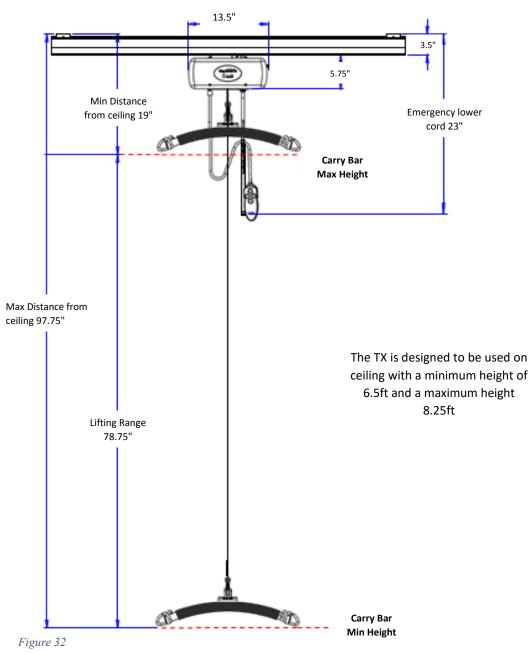
6.6.2 Emergency Lowering



7.0 Technical Specification

7.1 Lift Dimensions and Lifting Range

All dimensions are shown in inches



The diagram above (Figure 32) shows the relevant lifting ranges and dimensional sizes of the Lift. The direction of travel can only be made within the boundaries of where the lift is in the track system.



There are no necessary modifications required for the device to perform its intended use. However, should the device or the installed system require modification, please consult your local Mackworth dealer to arrange a date and time to assess the required changes to the system.

If this equipment is modified, appropriate inspection and testing must be conducted to ensure continued safe use of the equipment.



7.2 Specifications

Lift Motor	24VDC
Traverse Motor (optional at time of purchase)	24VDC
Charger Input	100-240V AC 50/60Hz 1.5A
Charger Output	24VDC/1.0A
Batteries (sealed lead acid)	24VDC (2x 12VDC) 5.0 AH
Lift Case	Flame Retardant ABS
Lift Case Degree of Protection	IP20
Handset Degree of Protection	IP67
Lifting Capacity (SWL)	440 lb (202 kg) / 600 lb (272 kg)
Lifting/Range	78.74" / 2000 mm
Operation	Handset (Pneumatic)
Sound Level	54 dB
Traverse Duty Cycle	25% use, 75% rest (90 seconds use, 270 seconds rest)
Lifting Speed (600 lb / 272 kg)	1.16"/s 29.52 mm/s
Lifting Speed (No Weight)	2.54"/s 64.52 mm/s
Lowering Speed (600 lb / 272 kg)	2.14"/s 54.48 mm/s
Lowering Speed (No Weight)	2.39"/s 60.75mm/s
Stopping Distances Up (600 lb / 272 kg)	0.39" / 10 mm
Stopping Distances Up (No Weight)	0.94" / 24 mm
Stopping Distances Down (600 lb / 272 kg)	1.54" / 39 mm
Stopping Distance Down (No Weight)	1.30″ / 33 mm
Raising/Lowering Duty Cycle	15% use, 85% rest (90 seconds use, 510 seconds rest)
Emergency Down Stopping Distance (600 lb / 272 kg)	1.54" / 39 mm
Emergency Down Stopping Distance (No Weight)	1.30" / 33 mm
Battery Capacity for Raising/Lowering (600 lb / 272 kg)	35 Lifts (Top 19.69" / 500 mm of Lift Tape)
Battery Capacity for Raising/Lowering (440 lb / 200 kg)	60 Lifts (Top 19.69" / 500 mm of Lift Tape)
Battery Capacity for Raising/Lowering (220 lb / 100 kg)	120 Lifts (Top 19.69" / 500 mm of Lift Tape)



Weights	
Safe Working Load (SWL)	440 lb (202 kg) / 600 lb (272 kg)
Lift	22 lb (10 kg)
Battery charger	1.76 lb (0.8kg)
Carry bar	4.4 lb (2 kg)
Handset	0.44 lb (0.2kg)

Table 9

Operational Forces	
Handset	3N
Emergency cord	15N
Hook locking mechanisms on lift tape	2.5N
Spring clips on carry bar	8N
Manually traversing fully loaded lift (SWL)	50N
Manually traversing unloaded lift (No weight)	10N

Table 10

7.3 Expected Product Lifetime

Ten years depending usage and compliance to maintenance, servicing and LOLER inspections.

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, dependant on the charging routine. The lift tape should have an expected service life of 2 years if used correctly but visual inspection should be carried out before use.

7.4 Standards Applied

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

- EN 10535:2006 Lifts for the transfer of disabled persons. Requirement and test methods.
- EN 60601-1-1:2006 +A12:2014 Medical electrical equipment. General requirements for basic safety and essential performance.
- EN 60601-1-2:2015 Medical electrical equipment. General requirements for basic safety and essential performance. Collateral Standard. Electromagnetic disturbances. Requirements and tests.
- EN 60601-1-6:2010 Medical electrical equipment. General requirements for basic safety and essential performance.
- EN 60601-1-11:2015 Medical electrical equipment. General requirements for basic safety and essential performance.



8.0 Environmental - Storage and Operating Conditions

The lift is intended for internal use within normal environmental conditions.



It is not intended to be used in environments where there are rapid changes in the environmental temperature and humidity during intended use.

The TX Ceiling Track Lift suffers little from any effects of lint, dust and light.

- Lint Due to the nature of the TX being installed closely to the ceiling, very little lint would be likely to gain access into the lifts workings. The Lift is recommended as per Service Guide to be wiped cleaned during every lift inspection.
- Dust Due to the nature of the TX being installed closely to the ceiling, very little dust would be likely to gain access into the lifts 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 lift dictates that normal use would occur during ambient luminance 50 500 lux. Additional as the lift is designed for indoor use only, if required the user may wish to switch on room lighting. The LCD display on the lift is backlit to aid with user interaction.

8.1 Normal operating conditions

41°F to 104°F (+5°C to +40°C) at a relative humidity between 15% to 90% RH, non-condensing but not requiring a water vapor

pressure greater than 50hPa and atmospheric pressure between 700hPa to 1060hPa

8.2 Shipping and storage conditions

-13ºF to 41ºF (-25°C to +5°C) with any humidity level.

41°F to 95°F (5°C to +35°C) at a relative humidity up to 90%. 95°F to 158°F (35°C to 70°C) non-condensing at a water vapor pressure up to 50hPa.

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

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



9.0 Disposal



When the lift has completed its life cycle and can no longer perform to its intended use safely the lift must be decommissioned by an approved Service Dealer. The following specifies the importance of correct disposal procedure including local laws and being environmentally friendly.

Please observe the local laws on recycling and respect the current laws for disposal within the community the device is being used within. If there is any uncertainty of the below guidelines, contact your local authorities to determine the proper method of disposal of potentially biohazardous parts and accessories.

The relevant components utilized in the manufacture of the device that can be recycled at the end of the device life are:

Fully recyclables:	Consideration 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 Mouldings	Lift Tape
Carry Bar	Charger

Table 11

Ensure that this list is used as guidance and that the local laws in the given community overrule the suggested component disposal in the table above.



The product may be contaminated and has to be disinfected before decommissioning. See section 'Cleaning' in the User Guide for details of how to do this.



10.0 Fault Finding

If a problem arises with the lift, the Table below will hopefully assists in determining the fault and what actions you can take. If the fault cannot be found or the fault is found and the action guide does not provide a fix (e.g. – a damaged wire would need replacement), contact your local Mackworth authorized dealer immediately, will be required to repair the lift. Contact details can be found on the last page of this guide.

Fault	Action			
The Handset has become disengaged	Refer to the section 5.3 'Connecting The Handset To The Lift'.			
from the lift, or the Handset buttons	If this does not correct the fault, then contact your local authorised dealer			
are not responding.	immediately so the lift can be checked to ensure proper continued operation.			
The handset button command is	Turn off the Lift using the OFF switch on the Cover. Contact your local			
continuously activated – UP, DOWN, E-	authorized dealer immediately so that the lift can be checked to ensure			
LOWER.	proper continued operation.			
The handset buttons do not operate	The airline tubing has not been connected correctly. Refer to the section 5.3			
according to their designations (e.g. the	'Connecting The Handset To The Lift'.			
UP button initiates a DOWN).	If this does not correct the fault, then contact your local authorized dealer			
	immediately so the lift can be checked to ensure proper continued operation.			
The carry bar of the lift does not	The indicator light on the control panel should be green and show that there is			
move UP or DOWN even when the	power. If it is not then press any colored button on the handset to activate the			
handset has been properly	lift and the indicator light should turn GREEN.			
connected.	If the lift still does not function, then the batteries may be low and require			
	charging. Refer to the section 6.5 'Charging The Lift '. Charge the lift for at least			
	one hour and then try to raise/lower the carry bar.			
	If none of these resolve the fault, DO NOT use the Lift. Contact your local			
	authorized dealer immediately so that the lift can be checked to ensure proper			
	continued operation.			
The lift LED's indicate there is power,	A built-in detector checks the slackness of the lift tape. This may be sensitive.			
but the Lift does not operate in the	Apply weight to the carry bar while pressing the DOWN button at the same t			
DOWN direction.	If this corrects the fault temporarily but not permanently then contact your			
	local authorized dealer so that the Lift can be checked to ensure proper			
	continued operation			
The red indicator light on the lift turns	The batteries are low and require charging. Refer to section 6.5 'Charging The			
RED and/or a loud alarm sound is heard	Lift' and charge the lift for at least one hour before trying to raise/lower the			
when an individual is raised.	carry bar.			
	If this does not correct the fault then contact your local authorized dealer			
	immediately so that the lift can be checked to ensure proper continued			
	operation.			
One side of the lift tape is starting to	Contact your local authorized dealer immediately so the lift can be checked			
fray after continued use.	to ensure proper continued operation.			
The lift does not pass through a track	Refer to the User Guide of the specific piece of equipment in question.			
component such as a turntable or gate.	If the recommended solution does not correct the fault, then contact your			
	local authorized dealer immediately so that the track component and lift			
	can be checked to ensure proper continued operation.			
No Power.	If the emergency red cord has been used to either stop or lower the person the			
	Lift will not operate again until it has been reset.			
	Contact your local authorized dealer immediately so that the Lift can be			
	checked that it is safe to reset.			

Table 12



11.0 General Inspection, Maintenance and Cleaning

11.1 Service



No service is to be carried out on the lift while transferring a person to reduce the risk of injury. Service must be completed by a Mackworth authorized Service Dealer. Do not attempt to service the product yourself, or warranty is void.

To ensure the safety and continued good function of your lift, routine service must be performed on your Mackworth TX Ceiling Track Lift.

Service should be completed by a Mackworth approved service dealer every 6 months to ensure the products required standard is maintained. The service history of the product should be documented each service in the Service Log at the back of this User Guide.

When the lift is serviced, the 6 month service checklist must be completed for the Mackworth TX Lift.



Service Guide Document Number: 995553.

Spare Parts Guide Document Number: 992553.

The Service must be completed every 6 months after installation of the Lift to comply with LOLER Regulations.

The Mackworth TX Lift has an expected Service Life of 10

Years. Contact your local authorized Mackworth dealer if you:

- Need more information.
- Have any questions about the use or service of your lift.
- Notice any change in the performance.
- Want to report an unexpected occurrence.
- Want to arrange a service.
- Need to ascertain necessary information for replacement parts and components.

Contact details of your local Mackworth dealer are shown on the last page of this guide.

11.2 Inspection

Inspection is to be completed prior to each use by the user of the lift.



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

Ensure all component inspections in the Table below are completed prior to each use of the lift.

Check List before Use:

Component	Service/Inspection required			
Generic	Visual inspection of the external of the lift. Significant damage that may affect			
	the function of the lift along with a clear safety hazard is unacceptable.			
	Check the labelling on the lift to ensure they are all still legible, this includes the			
	Serial Number and other important markings. If labels are not legible, then			
	contact your local authorized dealer immediately.			
	Check all nuts and bolts that are accessible and visible 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 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 LED's are all working correctly prior to use.					
LCD Display Screen	Ensure that the LCD is working correctly and the messages can be read.					
Wheels	Ensure the wheels are traversing smoothly in the track before traversing a patient					
	along the system. Listen for any unusual noises.					
Motor	When raising and lowering the lift, with or without load, listen to the motor for					
	any unusual lifting noises. Lower the patient immediately if an unusual noise is					
	present.					
Handset	Ensure the Handset is functional, ensure the connection to the lift is correct and					
	that all the buttons are working before operation with a patient.					

Table 13

11.2.1 Lift Tape caution

The image (Figure 32) indicates a badly worn lift tape due to an acumination of events the lift has operated under.



Whilst a tape in this condition provides no immediate danger, the lift should not be used until a service agent can replace the damaged tape.

The visual checks that must be performed before each use will make the operator aware of a tape degrading. Any damage should prompt the operator to cease use and seek a replacement.

11.3 Cleaning

Please follow the cleaning guidelines below on cleaning and disinfecting the lift.

11.3.1 General Cleaning



It is recommended to clean the lift and accessories before use by a different person, reducing the risk of cross– contamination.

The exterior of the lift 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.

For the Handset and Lift Tape, use a dry cloth wipe only.



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

11.3.2 Disinfecting (if necessary)

Should the lift require a more thorough clean, the use of the Actichlor[™] disinfectant product (which is widely available in tablet form and used throughout the health care industry) is recommended.

Figure 32





Follow the manufacturer's safety instructions 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.

Application is through a clean damp cloth applied to wipe the device down. Use 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.

Product used as	Device 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
Mycrobactericidal	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
Sporcidal (C.Diff)	Clean	1000	1 (0.26gal)	1	10
	-	-	-	-	-
Sporcidal	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 "Device condition".

Table 14



Handling and storage safety precautions when using this cleaning agent:

Advice on Safe Handling



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.

Hygiene Measures

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 labeled containers. Storage temperature: 32-77°F (0-25°C).

Individual protective measures

Hand protection: Gloves **Dissolve**

Dissolve in cold water – With no agitation, 1 tablet will take approximately 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: http://www.nhsggc.org.uk/media/236215/msds-actichlor-plus.pdf

12.0 Warranty

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

- 1. Mackworth guarantees the TX, supplied as new, against failure within the period of 12 months from the date of purchase by virtue of defects in material or workmanship.
- 2. The liability of Mackworth under terms of this guarantee shall be limited to the replacement or the defective part(s) to the sales distributor, dealer, agent, person or entity which purchased the equipment from Mackworth. In no event shall Mackworth incur liability for any consequential or unforeseeable losses.
- 3. This equipment guarantee shall be void if the equipment is not serviced by Mackworth or its authorized agents, in accordance with manufacturer's recommendations, or if any unauthorized persons carry out work on the equipment.
- 4. This guarantee does not apply to failure attributable to normal wear and tear, damage by natural forces, user neglect or misuse or to deliberate destruction.
- 5. Do not attempt to service the product yourself, or warranty is void.
- 6. Exemptions: Batteries will be guaranteed for a period of 90-days after original purchase.

Prism Medical UK Contact details:

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Disclaimer

While every effort has been made to ensure the accuracy of information contained in this user guide, no liability can be accepted by Mackworth 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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