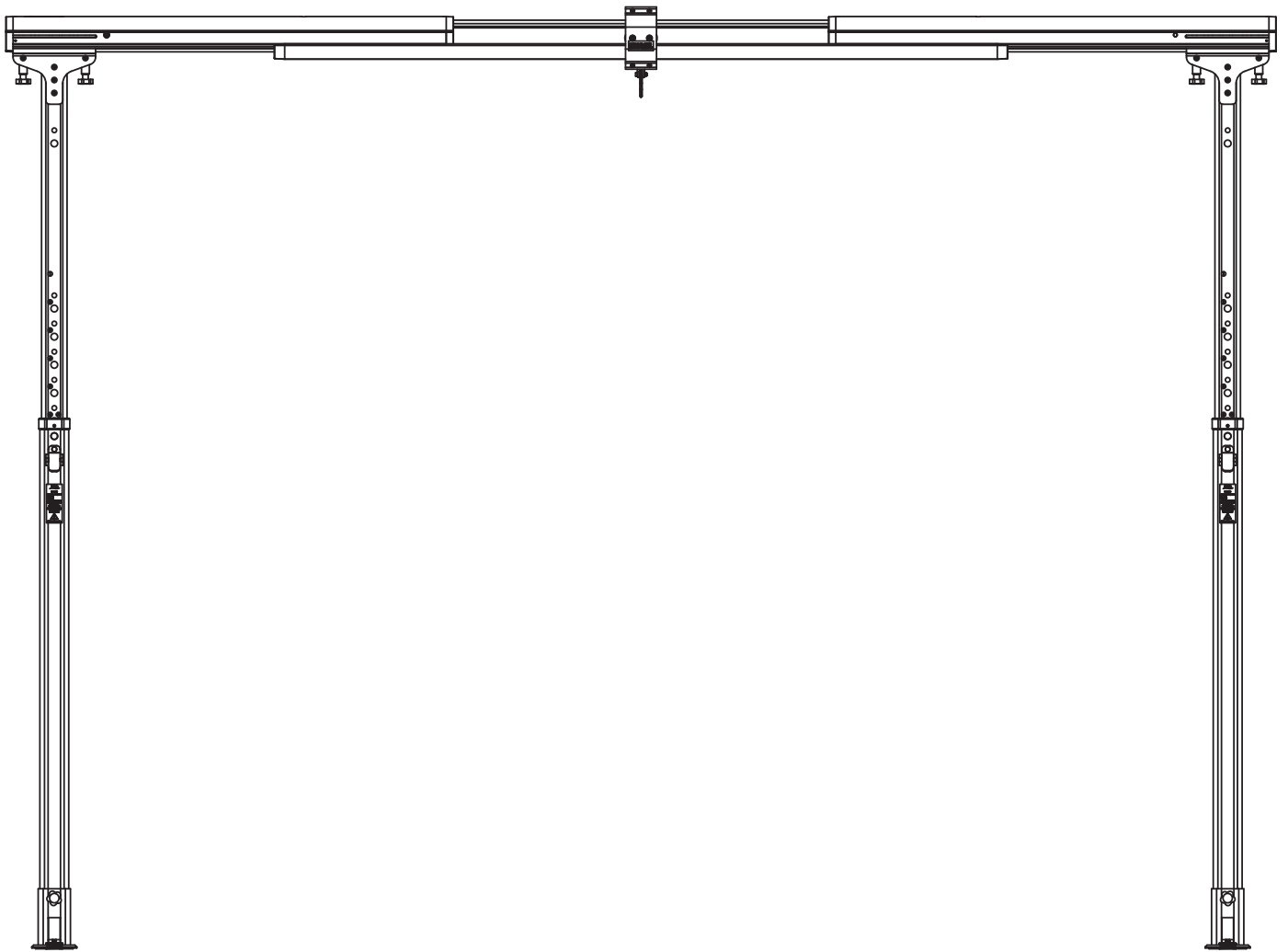


Mackworth FSG 440 Free Standing Gantry



User Manual




Mackworth

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1. Safety Instructions and Warnings

Symbols used

	Caution – Consult instructions for use
	Manufacturer
	Please observe local laws on recycling

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

Before using this equipment, and to ensure the safe operation of your FSG440, carefully read this entire manual, especially the section on “Cautions”.

Failure to comply with warnings in this manual may result in injury to the operator, or the individual being lifted/transferred. Damage to the lift and/or related components may occur. Be sure that the contents of this manual are completely understood prior to using this piece of equipment.

Store this manual with the documents included with the lift system and sling(s). Contents of this manual are subject to change without prior written notice.

Contraindications

There are no known “contraindications” associated with the use of the FSG440 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 personalised, case specific assessment, as there are many factors that can influence these decisions.

It is however, “obligatory” that a client that is assessed as being an independent user of our ceiling hoist technology have the ability to receive assistance, during the transfer, in the event of a hoist malfunction or personal concern. This assistance can be provided in the form of; a nearby qualified caregiver, a phone, a communication device etc.

Intended use/ Overview of the FSG440

The FSG440 is a lifting aid to help lift, position and transfer clients or a disabled family member. The FSG440 is part of what is termed overhead hoist technology which takes advantage of lifting from above and not from below or the side.

The FSG440 makes it possible to move mobility impaired individuals with minimal strain or risk to the caregiver, while providing complete safety, dignity and comfort for the client or family member.

The FSG440 is designed to work with a Mackworth portable hoist systems such as CP440. Use of other portable hoist units with this system may be possible, however, a risk assessment needs to be carried out.

The FSG440 is a floor based free standing system that can be used to lift and transfer individuals from a bed, chair or similar fixture. It needs a basic level of expertise to assemble or setup. It is easy to assemble and can be completed by just one person in a short period of time (but we recommend two people). Additionally, no tools are required and once dismantled can be moved to another location.

Should you have any questions about this product or its use contact your local authorised dealer.

Caution

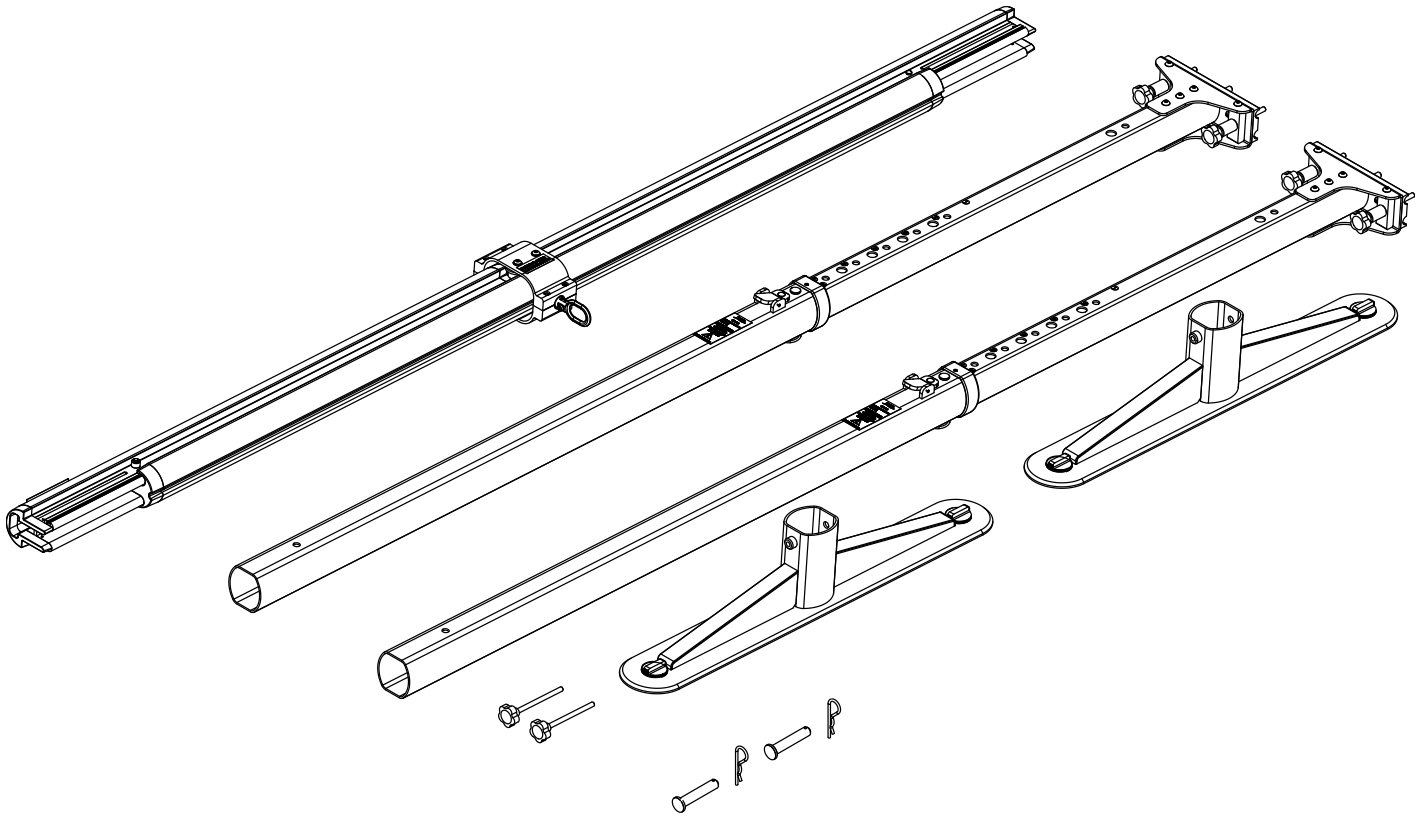


Should you have any questions during assembly contact your local authorised dealer.

- Under no circumstance should the track, lift and sling(s) 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.
- The FSG440 and associated lift and sling(s) are not toys. Do not use them for unsafe practices. Do not allow children to play with this equipment or any of its components.
- The manufacturer's warranty is void if persons unauthorised to perform work undertake this on the FSG440.
- Check the feet are level after installation.
- In places where more than one operator will be responsible for using the FSG440, associated lift and sling(s), it is imperative that all operators be trained in its proper use.
- Never expose the FSG440 directly to water. Warranty does not cover any misuse or abuse of the FSG440
- To maintain optimum function, the FSG440 should be inspected and maintained on a regular basis.
- Any accessories used with the FSG440 including lift and sling(s), should be checked to ensure that they are in good working order. Check for signs of wear or fraying prior to use. Report any unusual wear or damage immediately to your local authorised dealer.
- The FSG440 and associated lift, and sling(s) are intended only for lifting and transferring of a person. The manufacturer will not be responsible for any damage caused by the misuse, neglect or purposeful destruction of the lift and/or its associated components.
- Do not in any circumstance exceed the maximum load for this piece of equipment. Refer to the “**Specifications of the FSG440**” section of this manual.
- The installation of the FSG440, lift, accessories, and sling are certified to a maximum load. Do not exceed the maximum rated load of any of the components.
- Ensure that a clear space is maintained around the FSG440. Remove all furniture and other obstacles out of the way before performing a transfer.
- The FSG440 has been designed to lift vertically at its maximum load and at maximum height. Do not attempt to lift an individual at an angle to the track.

2. Components

FSG440 Components



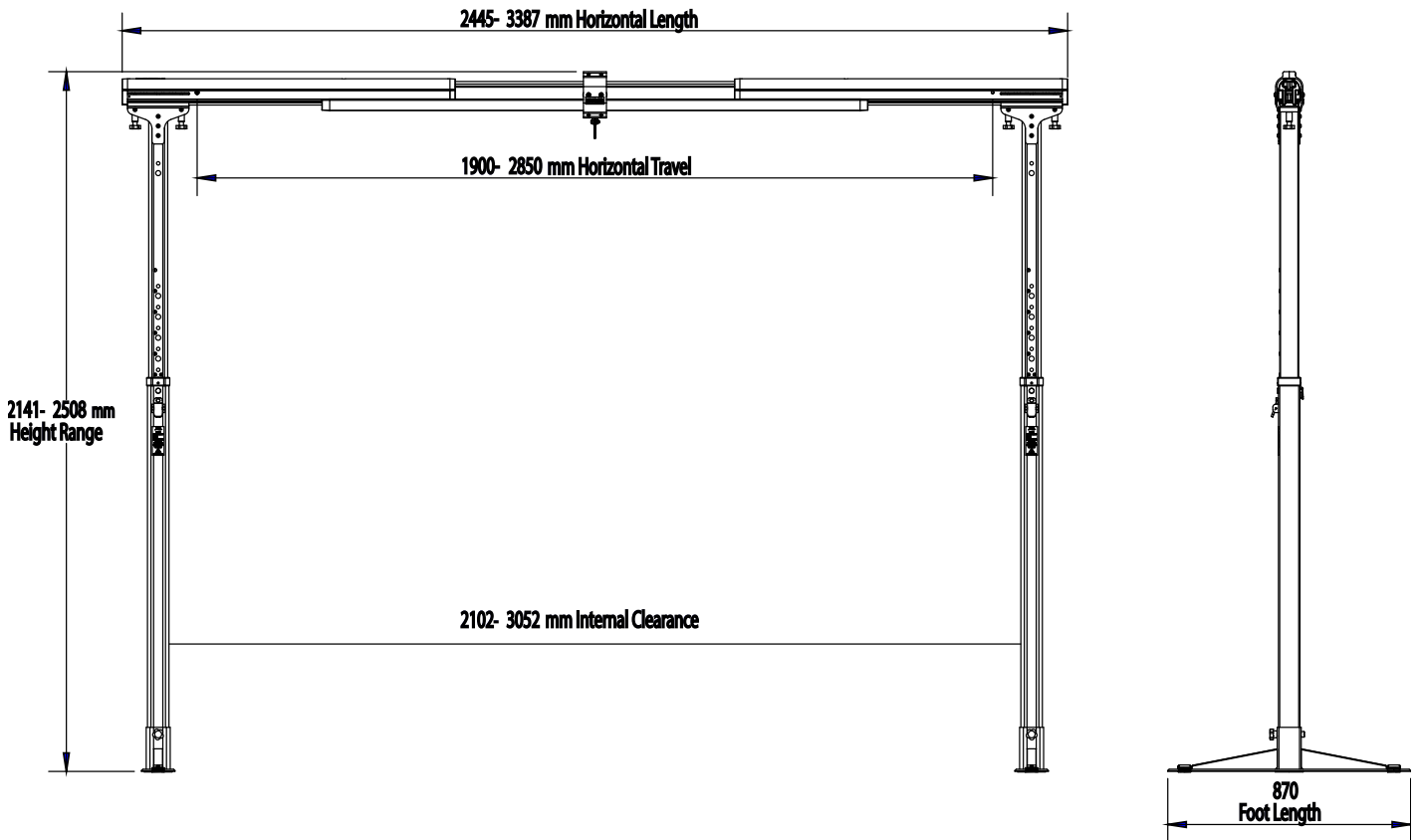
Component List

Description	Quantity
Foot	2
Support Post	2
Safety Pins	2
Star handle	2
Adjustable track	1
Split pins	2
Owner's manual	1

3. Features & Specifications

Weights and Dimensions

- High-strength lightweight Aluminium
- Track weight is 6.8 Kgs
- Post and leg assembly weight 5.9 Kgs
- Unit weight is 19.5 Kgs including trolley
- Portable installation
- Eliminates the mounting of a connection system in the ceiling
- One person set up (less than 5 minutes)
- Addresses a number of different set ups
- Weight capacity Maximum Safe Working Load of 200 Kgs
- Adjustable in height
- Minimum ceiling height 2141mm Maximum ceiling height 2508mm
- Height adjustable in 50mm increments
- Expected life time of product is 5 years but could potentially last longer if maintained properly.



Model table for FSG440

Code	Description
114100	FSG440 – 2 post version

4. Assembly

Prior to the Installation

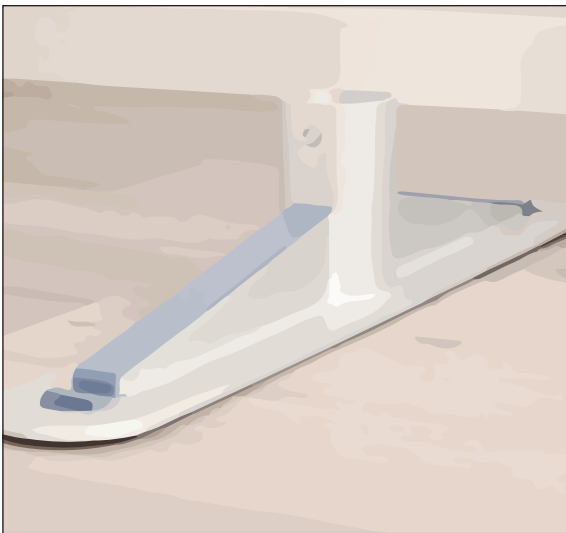


Caution: Read the section 'Safety Instructions and Warnings' before attempting to assemble the FSG440

Before using the FSG440, the components must be visually checked to ensure that they are not damaged. Should anything look unusual contact your local dealer prior to use.

Failure to comply with this caution could result in serious injury to the operator, the individual being lifted and/or damage to the FSG440 and/or portable hoist unit.

1. Place the Foot Plate on the floor in the required position for use



2. Insert the bottom of the Support Post onto the Bottom Foot Plate



3. Insert the Star Knob into the Foot Plate and Support Post and tighten it

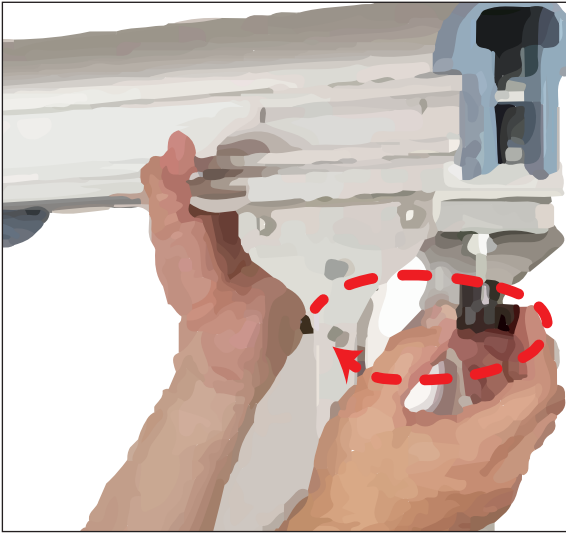


4. Place the Track onto the Support Posts using the Locating Pins

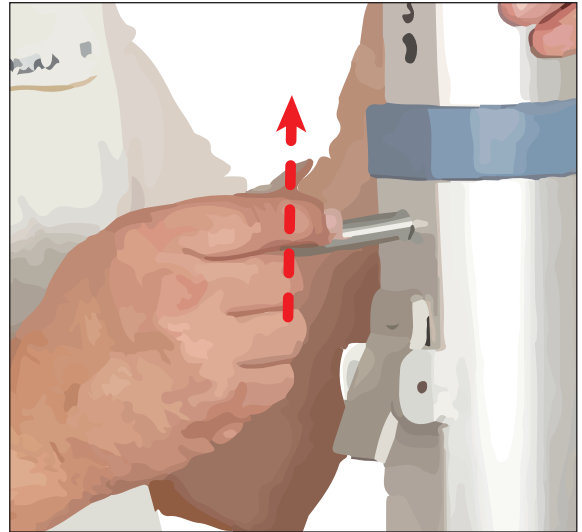


Assembly continued...

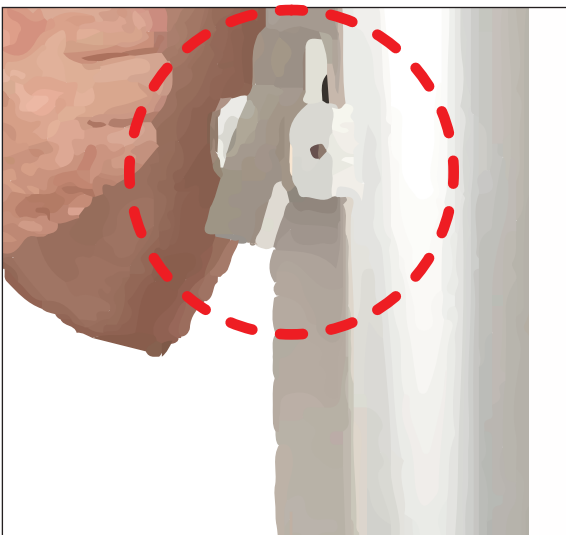
5. Secure the Track to the Support Post using the Star Handle



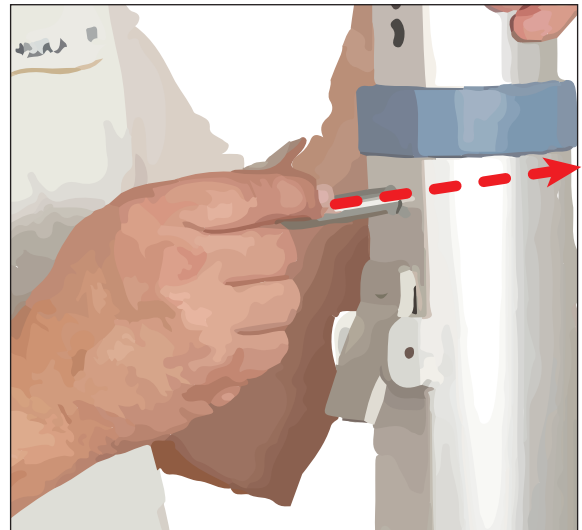
6. Extend the height by pushing the Track upwards to extend the Support Posts



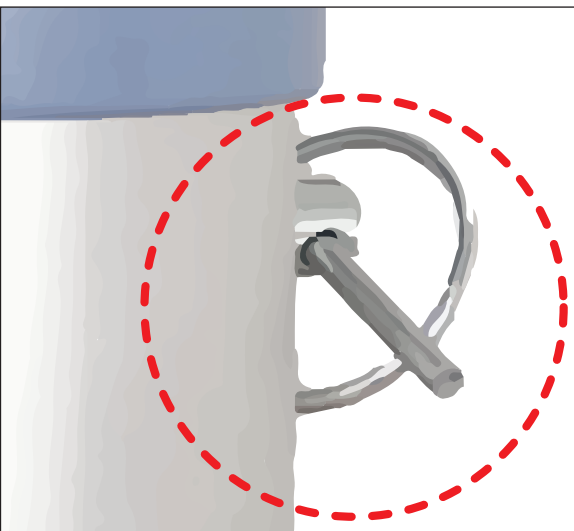
7. Press the Safety Latch when you reached the desired height



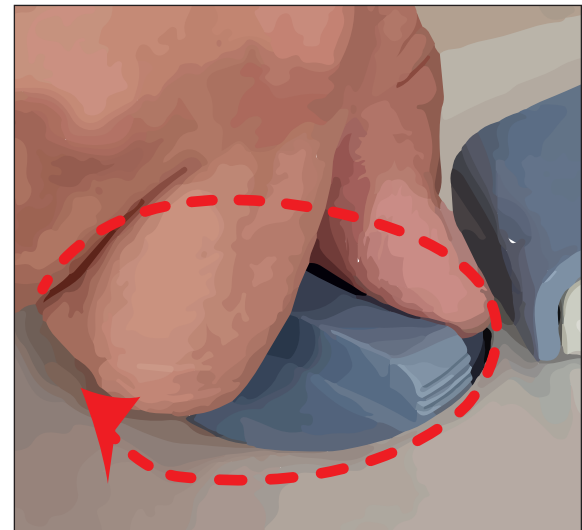
8. Insert the Safety Pins



9. Secure the Safety Pins with the Split Pins



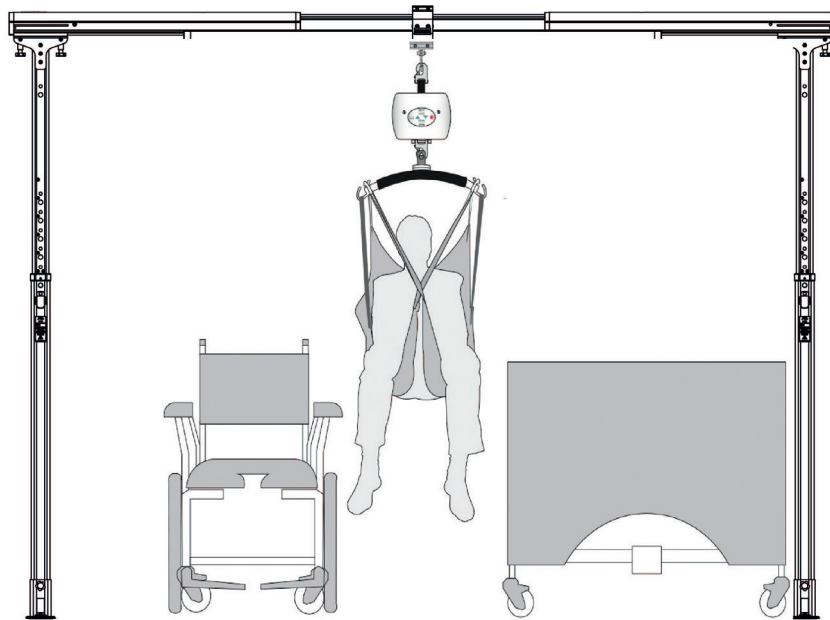
10. Turn the level adjuster to prevent rocking and make a level platform level the feet



5. Placement of the FSG440 in a room

General Placement Requirements

1. The feet of the FSG440 must always be placed on a hard level surface.
2. Do not place the feet on surfaces that will cause them to wobble or be unstable. Make sure the surfaces are free of any obstacles that may cause the feet to be unstable.
3. Never place the feet on wet surfaces.
4. Assemble the FSG440 so that the Track is directly over the location where the transfer will occur. For beds this is generally between 900mm - 1100mm from the head of the bed. For wheelchairs, living room chairs, recliner chairs and similar furniture this is directly above the middle (centre) of the seat.



Drawing showing front view of a common FSG440 System set up in a room. In this drawing arrangement, a general placement of a bed is shown in relationship to the system. Notice that there is still room for a wheelchair to be placed beside the bed.





DO NOT GO OUTSIDE OF THIS RANGE OF PLACEMENT OTHERWISE INJURY MAY OCCUR TO THE OPERATOR OF THE LIFT AND/OR THE INDIVIDUAL BEING TRANSFERRED, AND/OR THE EASY FIT SYSTEM



After Installation

- Make sure all four foot feet are sitting flat on the floor. There should be no gap between the feet and floor.
- During the use of FSG440 do not bump or lean against the posts. This might cause the system to become unstable.
- In places where more than one operator will be responsible for using the FSG440, associated hoist and slings, it is imperative that all operators be trained in its' proper use.
- To maintain optimum function, the FSG440 should be inspected and maintained on a regular basis. The manufacturer 's warranty is void if persons unauthorised by Mackworth perform work on the FSG440.
- Please ensure adequate clearance after installation to ensure the power supply for the hoist can be accessed.

6. Troubleshooting

Should problems arise with the use of the FSG440 review the following chart. Find the fault and complete the recommended solution. If the fault is not found and/or the solution does not correct the problem, contact your local authorised dealer for service immediately.

Fault	Reason	Recommended Solution
Visually the system is not aligned straight	<ol style="list-style-type: none"> 1. Floor is not level. 2. Post is not straight 	<ol style="list-style-type: none"> 1. The Feet must be sitting completely flat on the floor. 2. Dismantle the post and set up again following "Assembly Instructions". If problem persists, contact your local Authorised dealer immediately. <p>Note: Make sure the Adjustable Track is seating completely flat on the track holder.</p>
Feet are slipping after installation	<ol style="list-style-type: none"> 1. Feet are not cleaned. 2. Floor is not cleaned. 	<ol style="list-style-type: none"> 1. Clean the feet. 2. Ensure floor area is dry and free of obstacles. If problem persists, contact your local authorised dealer immediately .
The AdjustableTrack does not sit properly on the Support Posts.	<ol style="list-style-type: none"> 1. Support Post instructions not followed. 	<ol style="list-style-type: none"> 1. Set up the post following the Support Post instructions. 2. Check for physical damage to track <p>If problem persists, contact your local authorised dealer immediately</p>
The Adjustable Track doesn't extend smoothly or doesn't extend up to required limit.	<ol style="list-style-type: none"> 1. Physical damage to track. 2. Foreign object stopping lock from retracting 	<ol style="list-style-type: none"> 1. Check for physical damage to track. If so, contact local authorized dealer immediately 2. Clean the track slots with cloth and wipe out the dirt. Again try extending the tracks. <p>If problem persists, contact your local authorised dealer immediately .</p>
Trolley does not move smoothly along the adjustable track.	<ol style="list-style-type: none"> 1. Physical damage to track or trolley wheels. 2. Track slots or trolley wheels are not cleaned. 	<ol style="list-style-type: none"> 1. Visually make sure tracks and wheels are fine and are free of obstacles. 2. Ensure that tracks are cleaned with cloth and free of dirt <p>If problem persists, contact local authorised dealer immediately</p>
The Adjustable Track is not locking on the Support Post	<ol style="list-style-type: none"> 1. Track hook damaged or broken 	 <p>Do not use the system. Contact your local authorised dealer immediately.</p>
Difficult to insert foot into Support Post	<ol style="list-style-type: none"> 1. Support Post damaged or bend. 2. Foot damaged or bend. 	 <p>Do not use the system. Contact your local authorised dealer immediately.</p>

Fault	Reason	Recommended Solution
Latch not working	1. Latch Spring broken	 Do not use the system. Contact your local authorised dealer immediately.
Parts missing	1. Locking pin missing. 2. Locking clip missing	 Do not use the system. Contact your local authorised dealer immediately.



Please ensure any accessory used with this system is stored safely when not in use to prevent any damage or any unintended use which would introduce an inadvertent risk to minors who may be present around the system

Disposal



Please respect the current laws for disposal within the community the device is being used within. The relevant components utilised in the manufacture of the device that can be recycled at the end of the device life are:

- **Fully recyclables:**
 1. Metal framework
 2. Plastic and rubber components
 3. Initial packaging of the device (Cardboard)

7. Pre-Use Inspection and Maintenance

The illustrations opposite are of the system with an installed hoist with a user installed in the hoist sling



Prior to each lift, this will be completed by the user, the FSG440 and associated hoist, accessories and sling(s), must be visually inspected. Refer to the hoist, accessory and sling user guides for specific details regarding their inspection.

Should any of these items below fail the inspection do not use the FSG440. Contact your local authorised dealer for service or Mackworth.

Visually check for the following:

- The FSG440 parts should not be loose, broken or bent
- The feet are on a stable, level surface and the Support Posts are secure.
- The trolley moves easily along the track
- The Adjustable Track is placed in the correct location for transferring
- The portable hoist has been inspected as outlined in its owner's manual
- The sling (s) has been inspected as outlined in its owner's manual.



Prior to mounting the portable lift onto the trolley of the FSG440, please read the owner's manual of the portable lift. Be sure that the instructions on the use of the lift and any accessories, such as slings are thoroughly understood before attempting to use them with the FSG440.

Failure to comply with this may result in injury to the individual being lifted and/or the caregiver or damage to the lift and/or the FSG440.

Following the instructions for the portable lift, attach the carabiner, (or other similar attaching device) located at the end of the lift strap. Be sure that the carabiner is securely attached to the trolley prior to proceeding with the transfer.

Proceed to transfer the individual in the manner described in the owner's manual for the portable lift and sling. When the transfer is completed the lift may be removed from the trolley.

8. Cleaning

Recommended Cleaning Instructions

The exterior of the FSG440 can be cleaned using a damp soapy cloth for general cleaning duties. Please ensure the cloth is damp and not wet. Ensure the exterior of the device is dry after cleaning, dry using a clean dry cloth.



Care should always be taken when cleaning around electrical components where these are installed.

Disinfecting (if necessary)

Should the FSG440 require a more thorough clean, the use of the Actichlor disinfectant product, which is widely available in tablet form and used throughout the healthcare industry, is recommended for use to ensure a thorough clean.

- Please follow the manufacturers safety instruction for the use of the cleaning product before use to ensure safe use for the operator and the patient.



- Ensure the cloth is **damp** before the cleaning process. **DO NOT** use a wet cloth over electrical systems.
- Be careful not to let water ingress into the device as although the device is IP rated, it is not water tight.

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

Used in the following dilutions to ensure an effective clean:

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

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

Dilution chart

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

* Dilution is made within water

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

Safety precautions when using this cleaning agent

Handling and Storage:

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 labelled containers
- Storage temperature: 0°C to 25°C

Individual protective measures:

- Hand protection: Gloves

Dissolve

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

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

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

9. Standards Applied

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

- BS EN ISO 10535

Hoists for the transfer of disabled persons. Requirements and test methods

10. Service Record History

Initial Information

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

Purchase Information

Product name: Pressure Fit System

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

Purchased from:

Address:

City: **Postal code:**

Telephone number:

Comments:

Contact the following company for service

Company:

Address:

City: **Postal code:**

Telephone number:

Comments:

Service Record History

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

* Photocopy additional pages as required*

Date:	Time:
Service Type: <input type="checkbox"/> Periodic inspection <input type="checkbox"/> Monthly inspection <input type="checkbox"/> 6 inspection <input type="checkbox"/> Repair <input type="checkbox"/> Yearly inspection <input type="checkbox"/> Other	
Completed by: (printed name)..... (signature)	
Company:	
Remarks & Action Taken:	
Device left in a safe usable condition: YES <input type="checkbox"/> NO <input type="checkbox"/> if 'NO' explain in remarks the action) taken	

Date:	Time:
Service Type: <input type="checkbox"/> Periodic inspection <input type="checkbox"/> Monthly inspection <input type="checkbox"/> 6 inspection <input type="checkbox"/> Repair <input type="checkbox"/> Yearly inspection <input type="checkbox"/> Other	
Completed by: (printed name)..... (signature)	
Company:	
Remarks & Action Taken:	
Device left in a safe usable condition: YES <input type="checkbox"/> NO <input type="checkbox"/> if 'NO' explain in remarks the action) taken	

Date:	Time:
Service Type: <input type="checkbox"/> Periodic inspection <input type="checkbox"/> Monthly inspection <input type="checkbox"/> 6 inspection <input type="checkbox"/> Repair <input type="checkbox"/> Yearly inspection <input type="checkbox"/> Other	
Completed by: (printed name)..... (signature)	
Company:	
Remarks & Action Taken:	
Device left in a safe usable condition: YES <input type="checkbox"/> NO <input type="checkbox"/> if 'NO' explain in remarks the action) taken	

Date:		Time:	
Service Type: <input type="checkbox"/> Periodic inspection <input type="checkbox"/> Monthly inspection <input type="checkbox"/> 6 inspection <input type="checkbox"/> Repair <input type="checkbox"/> Yearly inspection <input type="checkbox"/> Other			
Completed by:		(signature)	
Company:			
Remarks & Action Taken:			
Device left in a safe usable condition: YES <input type="checkbox"/> NO <input type="checkbox"/> if 'NO' explain in remarks the action) taken			

Date:		Time:	
Service Type: <input type="checkbox"/> Periodic inspection <input type="checkbox"/> Monthly inspection <input type="checkbox"/> 6 inspection <input type="checkbox"/> Repair <input type="checkbox"/> Yearly inspection <input type="checkbox"/> Other			
Completed by:		(signature)	
Company:			
Remarks & Action Taken:			
Device left in a safe usable condition: YES <input type="checkbox"/> NO <input type="checkbox"/> if 'NO' explain in remarks the action) taken			

WARRANTY

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

1. All equipment supplied as new against failure within the period of 1 year from date of purchase by virtue of defects in material or workmanship.
2. 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, or to batteries more than 90 days after original purchase.
3. This guarantee shall be void if the equipment is not serviced by Mackworth or its authorised service agents in accordance with the manufacturers recommendations or if any unauthorised person carries out works on the equipment.
4. The liability of Mackworth under the terms of this guarantee shall be limited to the replacement of defective parts and in no event shall Mackworth incur liability for any consequential or unforeseeable losses.

Mackworth



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Disclaimer

While every effort has been made to ensure the accuracy of information contained in this user manual, 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.

