

UNIMAC

Drywall and Panel Hoist

User Manual



RETAIN THIS MANUAL FOR FUTURE REFERENCE

PLEASE READ THIS MANUAL CAREFULLY BEFORE USE

Table of Contents

INTRODUCTION.....	1
IMPORTANT PRECAUTIONS.....	2
ASSEMBLY	3
Components.....	3
Assembly Procedure	4
OPERATOR CONTROLS.....	7
OPERATING PROCEDURE.....	9
STORAGE AND DISASSEMBLY.....	11
MAINTENANCE.....	12
LIST OF PARTS	13

Introduction

The Drywall Lift allows one person to lift a drywall panel that is up to 4 ft. (1.22m) x 16 ft. (4.88m) in size without assistance.

The panel can be raised to a maximum height of 15 ft. (4.6m) for attachment to level ceilings-or (with the lift's cradle tilted) to sloped ceiling or side walls.

The lift's cradle lowers to 6 ft. (1.8m) off the floor and can support up to 150lbs. (68kg)

These instructions explain how to assemble the lift and to operate it. We urge you to read the important precautions below and the operation sections before using the lift.

Important Precautions



WARNING

To protect yourself against serious injury, use common sense and observe the following precautions when operating the Drywall Lift.

- ALWAYS study these instructions before operating the Drywall Lift. Pay close attention to all warnings.
- ALWAYS inspect the unit carefully before each day's use (pay special attention to the condition of the cable).
- ALWAYS allow the lift to reach at a working room temperature before using it (moving a cold unit into a warm room can cause condensation, which could affect the operation of the winch brake).
- ALWAYS ensure that the brake drum is clean and dry before operating.
- NEVER use the lift if either the cross arm support is not secured by its locking spring tab.
- ALWAYS wear a hard hat when operating this lift. Always watch out for overhead obstructions when lifting the drywall panel.
- NEVER use the lift for any purpose other than lifting a drywall panel.
- NEVER lift more than one sheet of drywall at a time. Never lift more than 150lbs (68kg).

Assembly

Components

The Drywall lift is shipped as several components as shown in Figure 1 that must be assembled before use:

- Tripod base assembly
- Six casters, three caster sets, bolts & nuts
- Frame assembly, including winch assembly
- Handle, bolt & wash
- Cradle assemblies
- Two cross arm assemblies
- Two outrigger assemblies

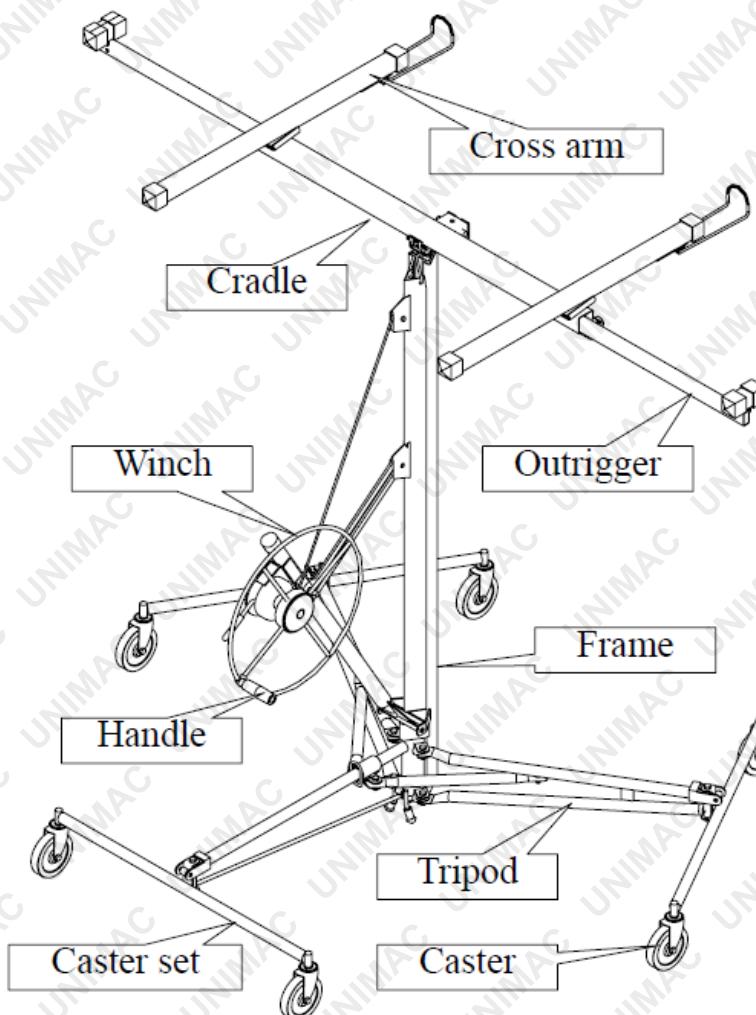


Fig. 1

Assembly Procedure

1. Set up the tripod base, Caster set & Caster:

- a. Set the Tripod base on the floor.
- b. Press down on the slide yoke ring. Hold it down while you swing the two outer legs out until the yoke rings snap into the locking hole on the bottom of the slide tube, as shown in Figure 2.
- c. Set the casters on the caster sets.
- d. Look for the socket which is on the caster set's "U" shape part; aim it at the socket which is on the tripod and then make the bolt drill through the sockets and tighten the nut. Then lock the caster set.
- e. To prevent the tripod base from rolling backward during assembly, lower the backstop as shown in Figure 3.

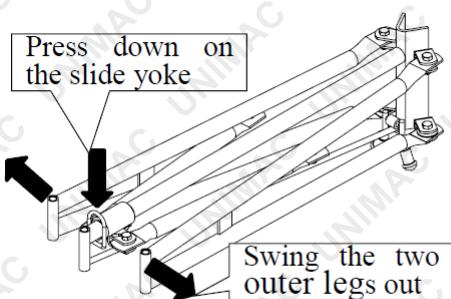


Fig. 2

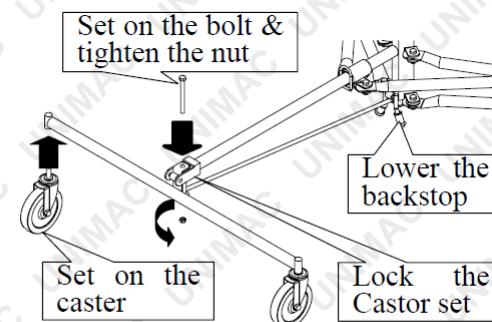


Fig. 3

WARNING



To prevent the drywall from overturning, turn the caster set lock to the locking position as shown in Figure 3 while working.

2. Set up the frame assembly:

Set the frame assembly onto the two "V" angles on the tripod base and lower the frame about an inch. Before continuing, ensure that the frame is pushed all the way down and is held securely by the angles.

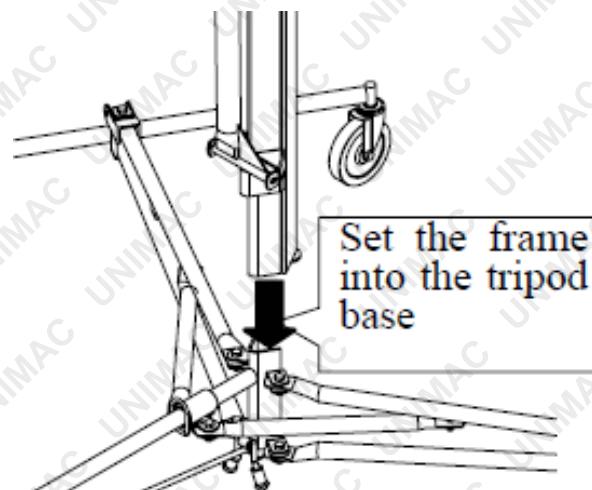


Fig. 4

3. Attach the handle:

Attach the handle to the winch wheel. Tighten the bolt.

4. Move the winch assembly into its working position:

- Hold the winch wheel and brake arm as shown. Rotate the winch wheel forward slightly while you lift the brake arm to release the brake, as shown in Figure 5.
- Raise the brake arm all the way up. Rotate the winch wheel towards it to release the cable fully, as shown in Figure 6.
- Hold the winch assembly and pull it towards you, as shown in Figure 7.
- When the winch is extended, release the brake arm and turn the retaining hook away so that it no longer secures the telescoping sections inside the frame housing, as shown in Figure 8.
- Press the winch assembly back toward the frame slightly. This automatically engages the slide bar lock to keep the winch fully extended.

IMPORTANT: before continuing be sure that the slide bar lock is fully engaged – that is, rotated clockwise as far as possible.

- Rotate the slide bar lock clockwise into the hole, as shown in Figure 9.

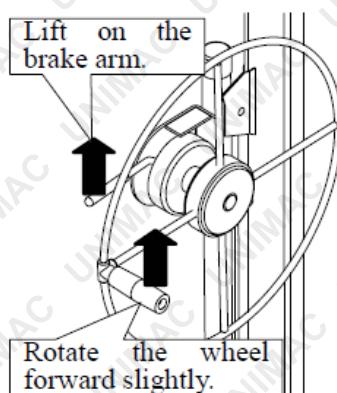


Fig. 5

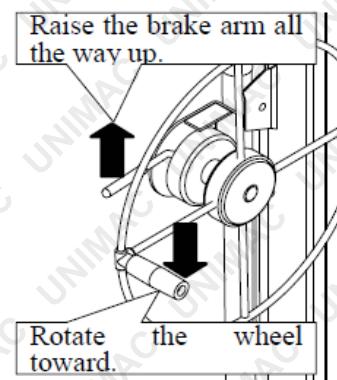


Fig. 6

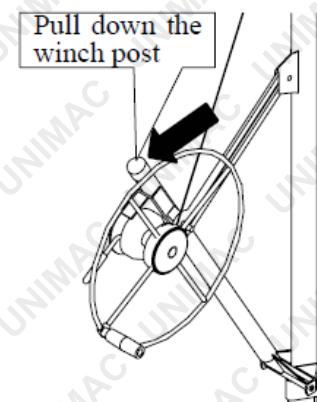


Fig. 7

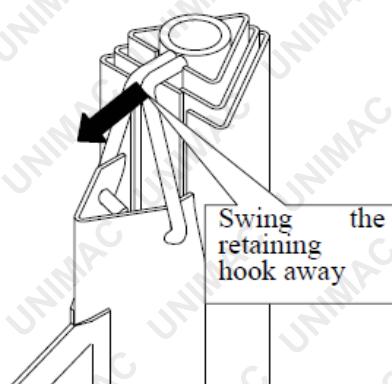


Fig. 8

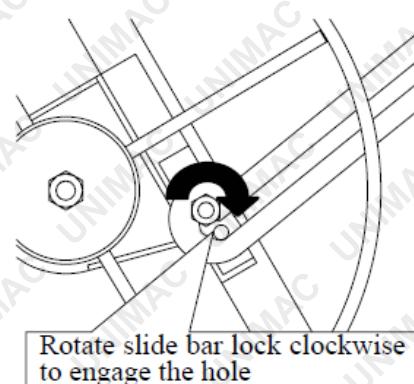


Fig. 9

**WARNING**

To avoid injury, slide bar lock must be fully engaged if the winch assembly is extended as shown in Figure 9.

5. Attach the Cradle to the Frame:

- a. Insert the cradle's post into the opening on top of the frame.
- b. Secure the cradle to the frame by snapping the tilt latch upward so it hooks over the stud on the cradle as shown in Figure 10.

6. Attach the cross arms to the cradle:

- a. Slide the tapered plates on the cross arms into the tapered socket on the cradle.
- b. Press each cross arm forward to the socket until the spring tab on the bottom of the cross arm snaps into place, as shown in Figure 11.

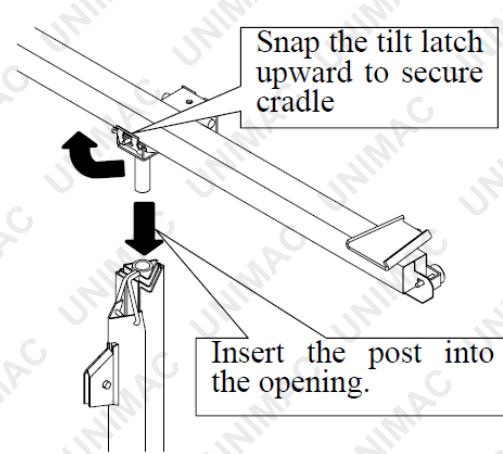


Fig. 10

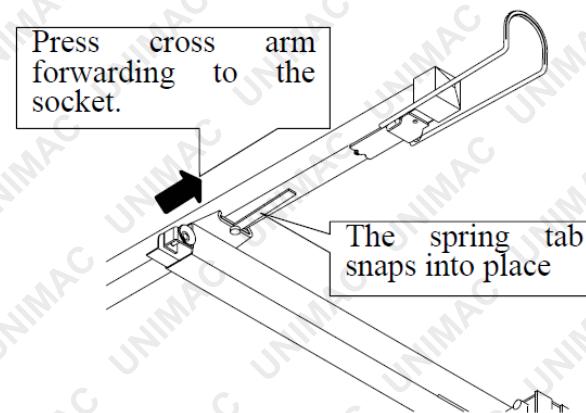


Fig. 11

7. Attach the Outriggers to the cross arm:

Pull the lock pin out. Push the outrigger in the cradle.

Push the lock pin into the hole to fasten the outrigger.

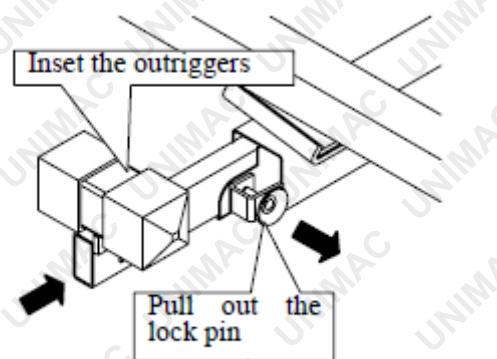


Fig. 12

Operator Controls

1. Slide Yoke Ring

Press down on the slide yoke ring to unlatch the two outer legs so that they can be rotated out to the lift's working position or into its storage position. A spring-loaded pin snaps into a hole on the bottom of the slide tube to lock the outer legs in position.

2. Backstop

Pivot the backstop down to prevent the base from rolling backward or upward to allow the unit to roll freely.

3. Castor Set Lock

Secure the castor set lock to guarantee stability when working on your drywall. To prevent the castor set from swinging around, you can secure the castor set lock.

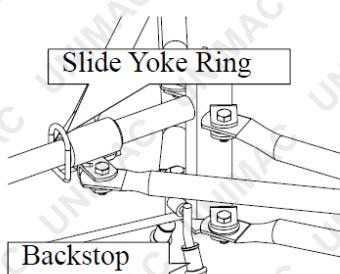


Fig. 13

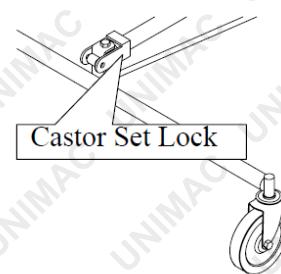


Fig. 14

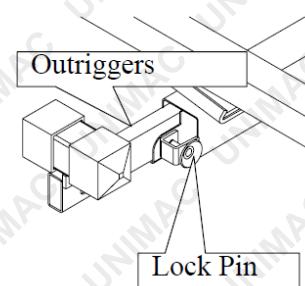


Fig. 15

4. Outriggers

The outriggers on the cross arms extend for supporting a longer drywall panel.

To extend an outrigger, pull out the lock pin with your right hand until you can slide the outrigger out with your left hand. The lock pin can be secured to lock the outrigger at one of three positions: fully retracted, extend about 21 in (530mm) or extend about 33 in (830mm).

To avoid damaging them, always retract the outriggers fully before transporting or storing the lift.

WARNING



Never load a drywall panel or operate the lift if the lock pins are not secured at one of the three positions or if the outriggers are extended beyond the 33 in (830mm) position.

5. Panel Support Hooks

Open the support hook on each cross arm to support the drywall panel when it is being loaded or when the cradle is tilted.

To avoid damaging them, always close the support hooks before transporting or storing the lift.

6. Tilt Latch

To allow the cradle to tilt (for loading a drywall panel, or for raising the panel to a side wall or sloped ceiling) or to remove the cradle from the frame, pivot the latch up to engage the stud on the cradle.

NOTE: When it is in the level (non-tilted) position, the cradle will also tilt up to 10° side-by-side.

7. Retaining Hook

The retaining hook secures the telescoping sections inside the frame for transport and storage.

8. Brake Arm

A spring-loaded brake holds the cradle at whatever height you raise it by cranking the winch wheel.

To lower the cradle, control the backward rotation of the winch by grasping the wheel handle as you carefully raise the brake arm to release the brake.

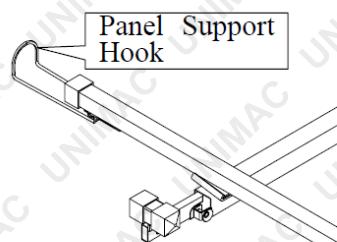


Fig. 16

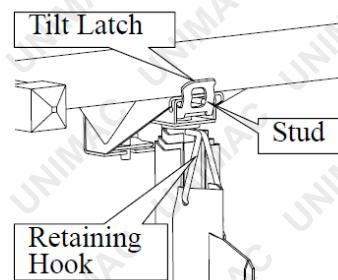


Fig. 17

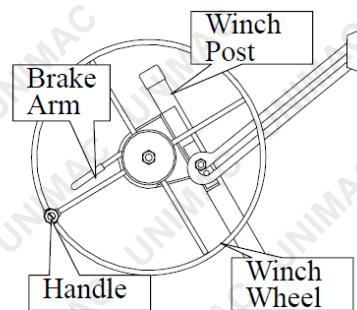


Fig. 18

9. Winch Wheel, Handle and Post

Cranking the winch (using the wheel handle) coils or uncoils the cable that raises or lowers the cradle.

Grasp the post for leverage when cranking the winch.

10. Slide Bar Lock

The slide bar holds the winch assembly at its operating (fully extended) position.

To fold the winch assembly against the frame (when disassembling the unit for transport or storage), disengage the lock by turning it counter clockwise as you lift on the slide bar.

When you reassemble the unit for operation, extending the winch assembly all the way and then pressing it back slightly toward the frame automatically engages the lock.

Never tighten the nut on the slide bar lock or you will be unable to fold up the unit for transport and/or storage.

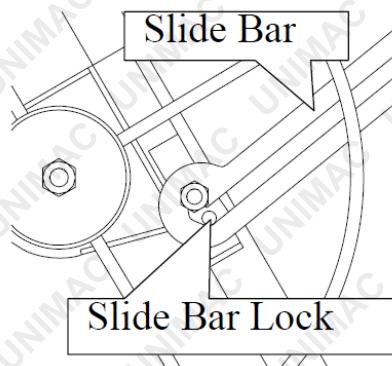


Fig. 19

Operating Procedure



WARNING

To avoid serious injury follow all the important precautions on page 2.

1. Safety Check Before Operation

Before you begin operating the lift:

- Inspect the unit carefully for wear or damage. Pay special attention to the cable.
- Ensure that the lift is at working room temperature before operating.
- Ensure that the winch brake drum is clean and dry before operating.

2. To Load a Drywall Panel

- a. Set (lower) the backstop, so the lift won't roll backwards.
- b. Swing open the panel support hooks on the two cross arms. Ensure that the cradle is turned so that the support hooks are on the opposite side from the winch wheel.
- c. Extend the cross arm outriggers on the cradle as needed to fully support the length of the drywall panel.
- d. Release the tilt latch to tilt the cradle.
- e. Hold the drywall panel with its face facing towards the tilted cradle and load the panel onto the lift.

Set the panel onto the support hooks, and carefully lean it against the cross arms

- f. If installing the panel on a flat ceiling, tilt the cradle back up to its level position and lock the tilt latch. If installing the panel on a side wall or a sloped ceiling, leave the cradle tilted
- g. Raise the backstop on the base and carefully roll the lift close to the position where the panel will be installed.

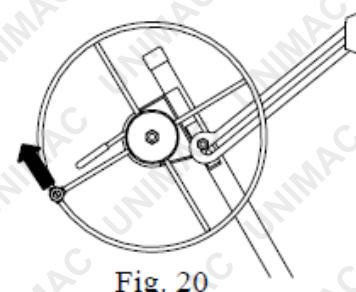
WARNING



Always lower the backstop before raising the panel to a sloped ceiling or a side wall.

3. To Raise the Panel

Crank the winch wheel in the direction shown (hold the post leverage) until the panel is at the desired height. The brake is spring-loaded to automatically hold the cradle at the selected height when you stop cranking.



4. To Lower the panel

- a. Grasp the wheel handle with your right hand so you can retain the back ward rotation of the winch
- b. Retain your hold on the winch handle. Carefully release the brake with your left hand and slowly rotate the wheel backward to lower the cradle to the desired height.

WARNING



Cradle drops rapidly when the brake arm is released. Control the winch with your right hand on the wheel handle before releasing the brake.

Storage and Disassembly

Always store the drywall lift in a dry, protected area to disassemble for more compact storage.

To disassemble the drywall lift for transport or compact storage:

1. Crank the cradle all the way down.
2. Slide the cradle outriggers all the way in until they latch.
3. Close the panel support hooks.
4. Remove the cross arms by pressing the spring tab on the bottom and sliding the cross arm out of the tapered socket
5. Lift the cradle until you can remove it from the frame.
6. Rotate the winch wheel one full rotation forward. This will raise the inner telescoping section.
7. Unlock the winch assembly by lifting the slide bar with your left hand while you rotate the slide bar lock counter clockwise with your right hand.
8. Hold the slide bar locked in this disengaged position and press down on the telescoping sections in the frame with your left hand. The winch assembly will move towards the frame housing
9. Crank the telescoping sections all the way down. Swing up the retaining hook as shown and crank the telescoping sections back up slightly until secured by the hook.
10. Hold the retaining hook in this position with your left hand, and rotate the winch forward with your right hand. The winch assembly will fold up against the frame. When the slide bar makes contact with the frame, tighten the cable by turning the wheel further (just enough to hold the winch assembly in this position).
11. Carefully lift the frame winch about 1 in (25mm) to release it from the tripod base.
12. To fold the base, press down on the slide yoke ring and pivot the outer legs in.

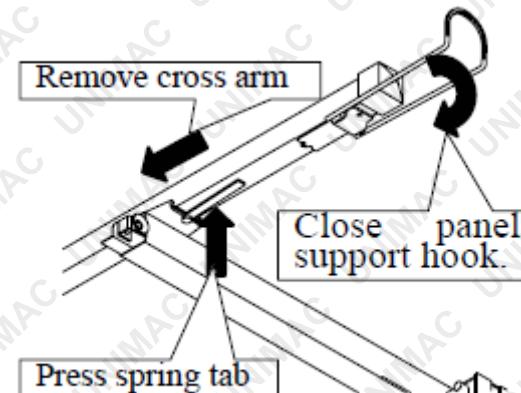


Fig. 21

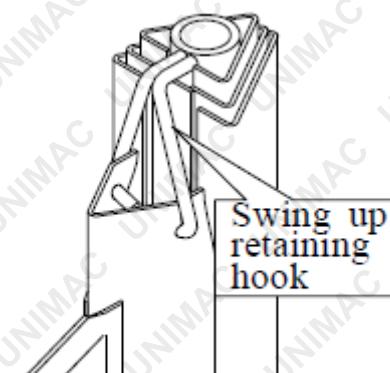
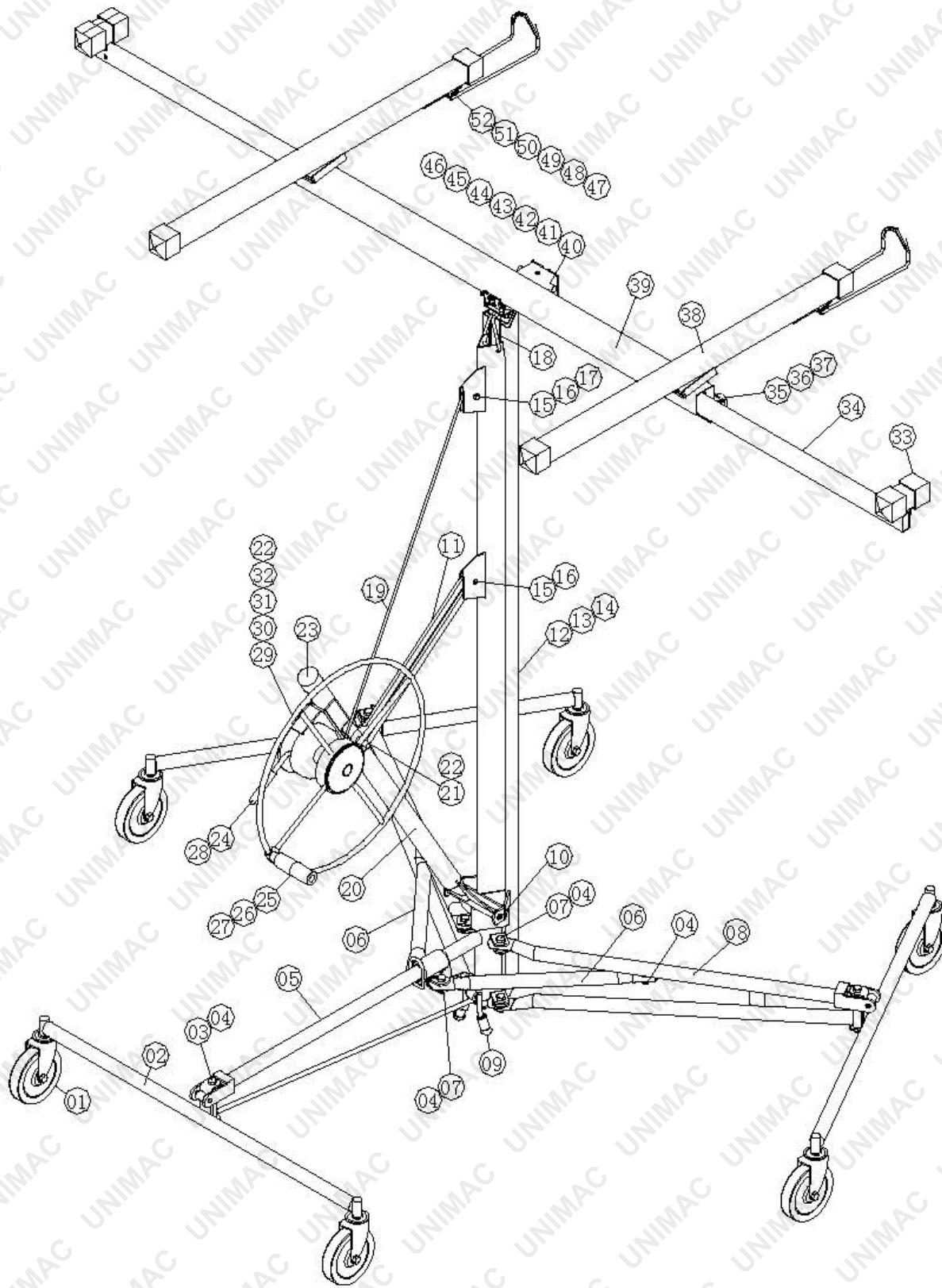


Fig. 22

Maintenance

1. Inspect the cable each day before working. Replace it at the first sign of wear.
2. Oil the cable pulleys occasionally. Crank up the telescoping sections for access to the internal cable pulley. Never allow oil or grease to contact the surface of the winch brake drum.
3. Oil the caster bearings occasionally.
4. If the telescoping sections of the frame don't operate smoothly, apply household paraffin to the sliding surfaces.

List of Parts



Drywall and Panel Hoist

NO	PART NAME	QTY
1.	Castor	6
2.	Castor set	3
3.	Bolt	3
4.	Nut	3
5.	Centre lag	1
6.	Leg tie	2
7.	Bolt	6
8.	Outer leg	2
9.	Rubber tip	2
10.	Post spindle	1
11.	Slide bar	1
12.	Frame housing	1
13.	Outer telescoping	1
14.	Inner telescoping	1
15.	Axle	4
16.	Cotter pin	8
17.	Cable pulley	3
18.	Retaining hook	1
19.	Cable	1
20.	Winch post	1
21.	Slide bar lock	1
22.	Nut	2
23.	Post cap	1
24.	Brake cap	1
25.	handle	1
26.	Handle bolt	1

NO	PART NAME	QTY
27.	Wash	1
28.	Brake	1
29.	Wheel	1
30.	Flange bearing	2
31.	Thimble	1
32.	Wash	1
33.	Cross arm end cap	8
34.	Outrigger	2
35.	Outrigger pin	2
36.	Spring	2
37.	Clip	2
38.	Cross arm	2
39.	Cradle	1
40.	Mounting head body	1
41.	Cradle tilt latch	1
42.	Spring	1
43.	Hinge pin	1
44.	Bolt , Nut	2
45.	Bolt , Nut	1
46.	Tension plant	1
47.	Panel support hook	2
48.	Hook fixation	2
49.	Wash	2
50.	Spring	2
51.	Bolt	2
52.	Nut	2



Some experts believe the incorrect or prolonged use of almost any product could cause serious injury or death. For information that may reduce your risk of serious injury or death consult the points below and additionally, the information available at www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature online documentation which should be printed and kept with the product.
- Check product for loose / broken / damaged / missing parts, wear or leaks (if applicable) before each use. Never use a product with loose / broken / damaged / missing parts, wear or leaks (if applicable).
- Products must be inspected and serviced (if applicable) by a qualified specialist every 6 months assuming average residential use by a person of average weight and strength, above average technical aptitude, on a property matching average metropolitan specification. Intended use outside these guidelines could indicate the product is not suitable for intended use or may require more regular inspection or servicing.
- Ensure all possible users of the product have completed an industry recognised training course before being given access to the product.

- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or your description of the application. Be sure to attain third party approval for your application from a qualified specialist before use regardless of prior assurances by the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (take an automobile, aircraft, computer or ball point pen for example) there is always a small chance of a technical issue that needs to be repaired or may require replacement of the product or a part. If the possibility of such failure and the associated time it takes to rectify could in any situation inconvenience the user, business or employee or could financially affect the user, business or employee then the product is not suitable for your requirements. This product is not for use where incorrect operation or a failure of any kind, including but not limited to a condition requiring product return, replacement, service by a technician or replacement of parts could cause a financial loss, loss of employee time or an inconvenience requiring compensation.
- If this item has been purchased in error considering the points above simply contact the retailer directly for details of their returns policies if required.