PL13220

MALCOEDGE™

PORTABLE LIFTER

ÉLÉVATEUR PORTABLE • ELEVADOR PORTÁTIL

SCAN FOR SPANISH AND FRENCH

RECHERCHER EN ESPAGNOL ET EN FRANÇAIS
BUSCAR ESPAÑOL Y FRANCÉS

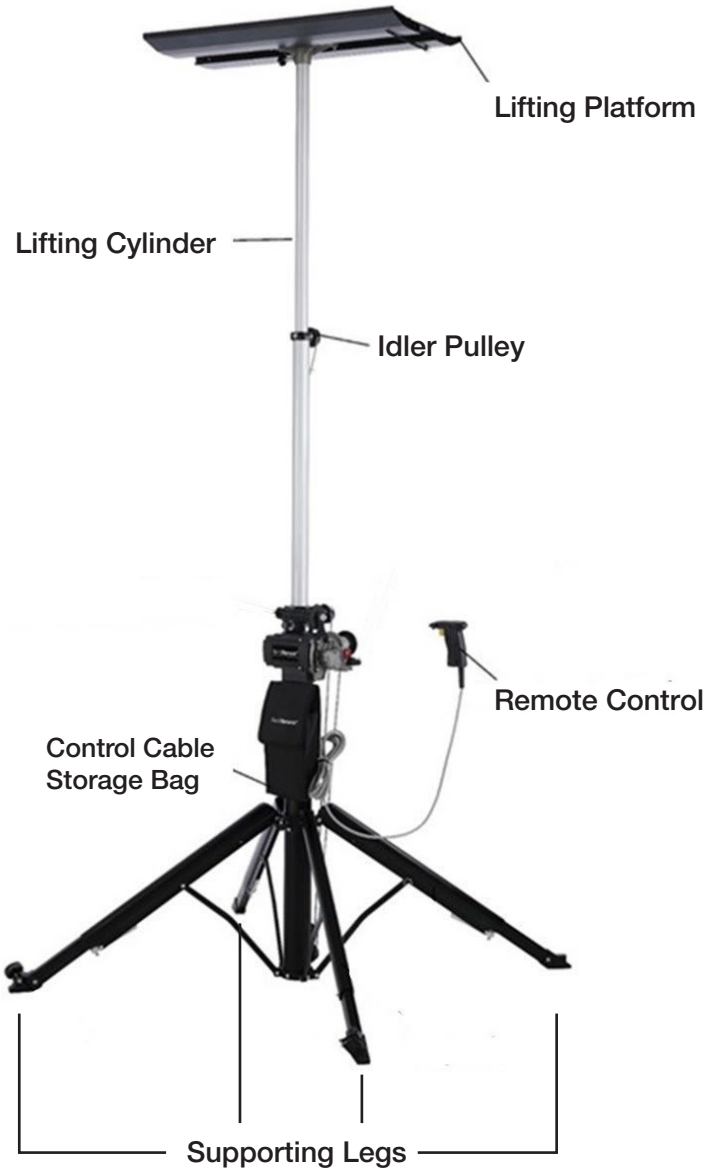


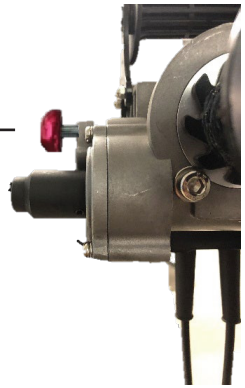
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Features and Benefits:

- The lifter is light and can be carried by a single person.
- Combines lightweight aluminum alloy and steel construction
- Features a pull handle and wheels for easy mobility.
- 4 adjustable support legs
- All 4 legs are independently adjustable to ensure stability on uneven surfaces
- Built-in bubble level to aid leveling of lifter
- 3 modes of operation
- Fully powered using 110 volt power supply and operated via remote pendant.
- When power isn't available:
  - Crank the lift using a cordless drill. (do not use impact driver)
  - Hand crank the lift using the include handle.
- Integrated braking keeps load in place when power is removed.
- Built in clutch system prevents lifting loads beyond ratings of the lifter.




Lifting Platform
Lifting Cylinder
Idler Pulley
Remote Control
Control Cable
Storage Bag
Supporting Legs


Motorized/
Manual Selector
Manual (hand
crank)/Power
Drill Input Shaft


Safety Pins
(Yellow & Red)


Pull
Handle
Control Cable
Storage Bag
Wheels

2. General Safety Regulations

Do not attempt to operate until you have read all instructions contained in this manual thoroughly.

⚠ *The portable lifter must not be used to lift people* ⚠

- ⚠ All users must read these warnings and instructions before operating, so to understand the usage, limitations and any possible dangers of the lifter.
- ⚠ Wear proper protective equipment including safety glasses and gloves while using lifter.
- ⚠ Keep children and bystanders away from the lifter while operating.
- ⚠ Wear hearing protection when necessary. Exposure to noise can cause hearing damage.
- ⚠ The power plug must match the socket, and it must not be modified in any way.
- ⚠ Lifter must be level and stable prior to operation and must remain so during operation.
- ⚠ DO NOT remove Yellow Safety Pin before you read the manual carefully.
- ⚠ DO NOT operate the portable lifter in windy conditions. This could cause the lifter to sway or even tip over.
- ⚠ DO NOT operate the portable lifter while you are tired or under the influence of drugs, alcohol, or medication.
- ⚠ Prior to use, inspect the lifter for any damage. If any is found have the lifter repaired prior to use.
- ⚠ Dress properly – keep clothing, gloves and hair away from all moving parts.
- ⚠ Store the portable lifter out of the reach of children.
- ⚠ Only professional maintenance personnel from manufacturer can repair or replace spare parts. Use only original spare parts and accessories to ensure the safety of the lifter.
- ⚠ The portable lifter must not be used as a people lifting platform, and people must not stand on the lifting platform.

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- ⚠ Before use, please confirm whether the power supply matches the rated voltage.
- ⚠ The portable lifter cannot be moved while it is in operation.
- ⚠ Never operate the portable lifter in a moving environment, such as a moving car.
- ⚠ When the lifter rises, focus on the lifting platform and watch out for obstacles which might appear above the load.
- ⚠ DO NOT use the portable lifter in damp or wet locations or expose it to rain.
- ⚠ DO NOT remove or alter warning labels and from the lifter.
- ⚠ DO NOT use the lifter on soft ground in order to prevent the lifter from tilting.
- ⚠ The load must always be placed in the center of the lifting platform.
- ⚠ DO NOT place the lifter on a slope or uneven ground.
- ⚠ Make sure the lifting path is clear of people and other obstacles prior to lifting.
- ⚠ DO NOT attempt to modify or force the lifter to lift loads beyond the rated capacity.
- ⚠ During the lifting operation, always keep an eye on the lifter. If it shows any sign of tilting, it means the load is unbalanced and/or too heavy. Stop the lifting operation immediately and lower the lifter back to the starting position. Redistribute the load as center as possible or reduce the weight before lifting again.

Warranty

PRODUCT REGISTRATION

ENREGISTREMENT DU PRODUIT
REGISTRO DEL PRODUCTO

3 YEAR LIMITED WARRANTY*

**Includes a 1-Year Standard Warranty, with an additional 2 years of coverage with product registration. Scan the QR code for product registration and to view full terms and conditions.*

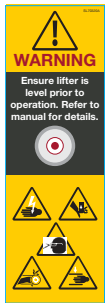
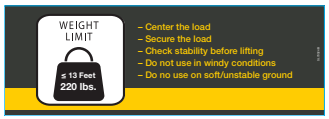
**Comprend une garantie standard d'un an, avec deux années supplémentaires de couverture après enregistrement du produit. Scannez le code QR pour enregistrer votre produit et consulter l'intégralité des conditions générales.*

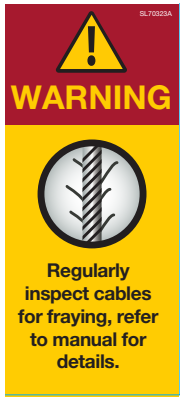
**Incluye una garantía estándar de 1 año, con 2 años adicionales de cobertura con el registro del producto. Escanee el código QR para registrar el producto y consultar los términos y condiciones completos.*

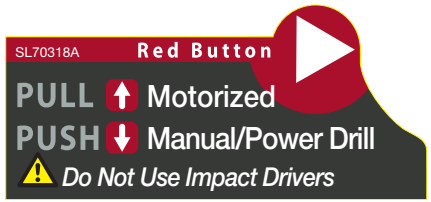
3. Warning Labels

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This portable lifter has warning symbols attached on it as shown below to ensure proper and safe operation.

	Graphic	Name of Warning sign	Meanings
1		High Voltage Danger	Do not use the portable lifter in damp or wet locations or expose lifter to the rain in order to prevent electric shock.
		Safety Glasses	Safety glasses must be worn during operation of lifter.
2		Crushing Hazard / Entanglement Hazard / Pinching Hazard	Do not touch the lifter or any moving parts during operation in order to prevent any injury.
3		Level Sign	Make sure the portable lifter is leveled before use. Shake the lifting cylinder to make sure the bubble is ALWAYS in the center circle.If the bubble moves outside the center circle adjust support legs to bring back to level.
4		Weight Limit Notice	Loads must always be placed in the center of the lifting platform. Do not attempt to modify or force the lifter to lift loads beyond the rated capacity.

	Graphic	Warning name	Meanings
5		Cable Condition Warning	It is recommended to replace the cable when finding more than 5 broken threads. The cable MUST be replaced immediately when finding 10 or more broken threads.
6		Usage of Safety Pins	Users must follow the load ratings and lift heights based on safety pin configuration shown on this label. More details on these pins in the Operation Procedure section of this manual.

	Graphic	Warning name	Meanings
7		The motor side up	When storing horizontally, the motor side should always be facing up and the cable side should be facing down. Otherwise, It will cause damage to the lifter if the gear side with the hex nut or the motor side is facing down.
8		Lifting Mode	When in Manual/ Power Drill mode, please do not use hammer drills or impact drivers, use standard power drills only. Using hammer drills/ impact driver drills will cause damage to the internal gears and other components.

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4. Before Using

The PL13220 has had rigorous functional testing performed prior to shipment. After receiving your lift:

- Verify receiving the correct model of lift for your application.
- Check to make sure that the lift was not damaged in transit.
- Verify all items are included with the lift such as the crank handle and lifting platform.

Power Supply Requirement

- Determine that the power supply outlet is capable of providing the necessary power for the lifter. Due to the power requirements, any extension cord used must be 14 gauge for cord lengths up to 25 feet. If a longer extension cord is needed it must be 12 gauge or larger. Failure to follow these requirements may cause damage to the lifter.
- The portable lifter must be properly grounded to prevent possible injury from electrical shock. Do not modify or remove ground prong on plug.

5. Operating the Lift

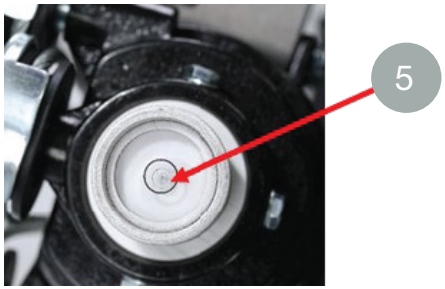
5.1 - Setup

1. Loosen thumbscrew on mast.
2. Slide collar down mast to unfold the legs.
3. Once the legs are fully unfolded, re-tighten the thumbscrew.
4. Locate and squeeze the handle near the end of the leg. This will extend the telescoping portion of the leg to the ground. Repeat process for each leg.
5. Locate the bubble level at the end of the lifting piston (see photo). Verify the bubble is in the center circle.
6. Using the squeeze handle from step 4, adjust (extend/retract) the necessary legs to achieve getting the bubble in the center circle of the bubble level.
7. Shake the lift from side to side to make sure that the bubble does not move outside the center circle of the bubble level. If it does move, continue to adjust the legs until it does not.









8. Install the lifting platform on top of the mast by:
   a. loosening the thumbscrew

   b. sliding the mast into the pocket on the bottom of the platform, aligning the hole in the mast with the thumbscrew.

   c. Re-tighten the thumbscrew.

9. If the lifter needs to be placed close to a wall the 2 legs without wheels can be adjusted to shorten the base on one side (see photo). Follow the steps below:

   a. ***NOTE*** If the lifter has already been leveled, it will need to be re-leveled again after these legs are shortened. (follow steps 4-7)

   b. On the legs without wheels locate the pins that attach the legs to the bottom support arms coming from the mast (see photo)

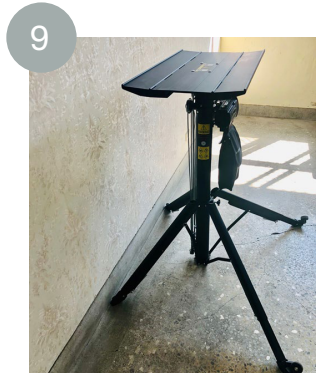
   c. Remove pin and move support arm to upper hole in leg

   d. Re-insert the pin.

   e. Repeat procedure on other leg.

   f. ***NOTE*** return the supports to their original position after the lifter is moved away from the wall. The lift is more stable in this configuration.







5.2 - Safety Pin Procedure

Safety Pins

Safety Pins will stop the platform from raising when it reaches the height limits. Before removing Safety Pins to raise the platform higher, please refer to the table to the right.



Table of Safety Pin and Height/ Weight Limit:

Safety Pins	Height Limit	Weight Limit
With Both Yellow and Red Pins are in place 	Max Height: 11.8 ft.	Max Weight: 220 lbs.
Yellow Pin removed, Red Pin cannot be removed. 	Max. Height: 13 ft.	Max Weight: 220 lbs.

**** It is recommended to use the lifter with both safety pins in place. If additional height is needed the criteria in the table must be followed. Additional care is required to make sure that the load is CENTERED on the lifting platform.*

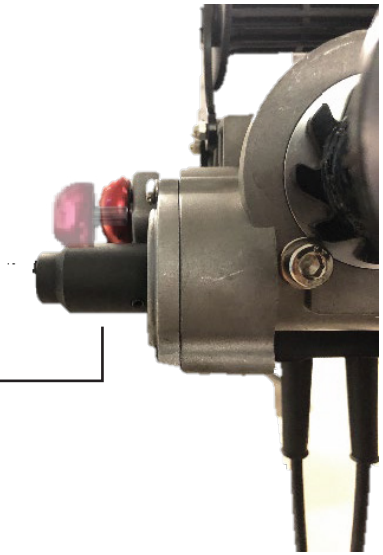
5.3 - Rasing and Lowering the Lift

I. Motorized Mode

- Make sure the Motorized/Manual Selector is pulled out.

  **If the Motorized/Manual Selector button cannot be pulled out successfully, lightly press the trigger to slowly activate the motor, and pull out the stop button at the same time to engage the internal gears.*

- Before operation, make sure the power cable is firmly plugged into electrical outlet.
- Before operating in the Motorized mode, make sure there's nothing mounted on the Manual (hand crank)/Power Drill Input Shaft
- Before lifting, make sure the direction selection switch on the remote is in the UP position. Please refer to the next section.





Up/Down Switch
Lever Trigger



- Please note that the trigger will control the speed that the lift will operate, the further the trigger is pulled the faster it will go.
- **Up:** place switch in the UP position and depress the trigger to raise the load.
- **Down:** place the switch in the DOWN position and depress the trigger to lower the load.

II. Manual Mode

**Power Drills should not be used as the main source of power, only during a power outage.*

**In case of motor failure or power outage, you can switch to Manual Mode. *Please do not use hammer drills or impact drivers, use power drills only or operate manually with hand crank.*

**Operator should pay extra attention when using a power drill or hand crank, ensure the load is centered and the cylinder is not tilted.*

a) Make sure the Motorized/Manual Selector is pushed in.
b) When operating with the power drill, 18V power drill is recommended.
c) When operating manually, please make sure to mount the hand crank onto the shaft firmly.
d) Operation: Refer to direction label on lift above the Manual (hand crank)/Power Drill Input Shaft
e) To Lift: Spin “Counterclockwise” to lift.
f) To Lower: Spin “Clockwise” to lower.





Hand crank

6. Notice & Danger

⚠ DANGER ⚠

During the lifting operation, always keep an eye on the lifter. If it shows any sign of tilting, it means the load is unbalanced and/or too heavy. STOP the lifting operation immediately and lower the lifter back to the starting position. Redistribute the load as center as possible or reduce the weight before lifting again.

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7. Troubleshooting

PROBLEM	CAUSE	ACTION
The lifter does not move when the motor runs	The Motorized/Manual Selector is not fully engaged.	Pull the Motorized/Manual Selector out to re-engage. If the selector cannot be pulled out, lightly press the trigger to slowy turn the motor and put out the selector at the same time. This should re-engage the selector.
The lifter motor does not operate when trigger is pulled.	Poor electrical connection	Verify outlet is functioning properly then verigy plug is fully inserted into electrical outlet.
The lifter will not operate in Manual mode	The Motorized/Manual Selector is not fully engaged.	Push the Motorized/Manual Selector in fully to disengage the motor gears.

8. Maintenance

ITEM	TASK	TOOLS	INTERVAL	STEPS
Lifting Cylinder	Lubrication	1. Brush 2. Electrical contact cleaner 3. 3-in-1 electric motor oil	After some uses, the lifting cylinders might cover with dust or debris. In order to prevent them from jamming, clean then lubricate the cylinders with oil.	1. Wipe out the dust or debris with electrical contact cleaner. 2. Lightly brush the cylinder with 3-in1 oil.
Steel cable	Cable inspection	N/A	Find 5 to 10 or more broken threads throughout the entire cable	Cable replacement is required. Contact Malco about replacement.

9.Specification Table

Model PL13220	
Weight (Mast)	56.5 lbs (25.6 kg)
Weight (Platform)	10 lbs (4.6 kg)
Lifting Platform Size	30 in X 17.7 in
Lifting Capacity	220 lbs max to a height of 13 ft
Overall Dimensions, when collapsed	10 in X 10.5 in X 44.5 in (25 cm X 27 cm X 113 cm)
Voltage	115VAC, 60Hz
Power Cord Length	9 ft
Control Cord Length	13 ft
Power	1100 W
Length and Width of base when legs are open/ extended.	45 in X 45.5 in

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PRODUCT REGISTRATION

ENREGISTREMENT DU PRODUIT
REGISTRO DEL PRODUCTO

MALCO TOOLS, INC.
14080 HWY 55 NW
Annandale, MN 55302
www.malcotools.com

SL70317B