

PARTS BREAKDOWN AND OPERATING MANUAL

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 Rev: 05/15/07



This operating manual contains important safety information.
 Read carefully and understand all information before operating tool.
 Save this manual for future use.

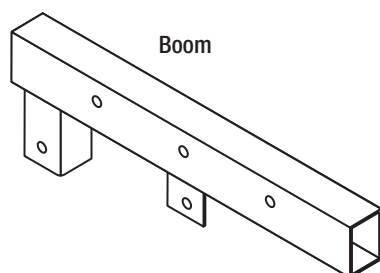
PO Box 58

Travelers Rest, SC 29690

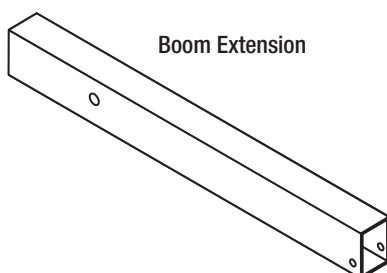
Customer Service: (800) 879-7316 Mon-Fri 8:30AM - 5:30PM

Fax: (864) 834-0073

PARTS LIST



Boom



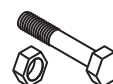
Boom Extension



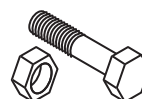
1/2" x 3"
 Hex Head Bolt and Nut



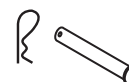
5/8" x 3"
 Hex Head Bolt and Nut



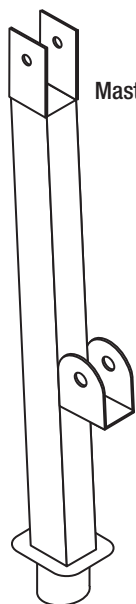
5/8" x 4-1/2"
 Hex Head Bolt and Nut



1" x 4-1/2"
 Hex Head Bolt and Nut

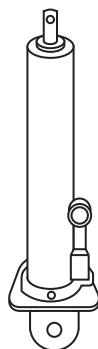


1/2" x 3-1/2"
 Pin and Clip



Mast

Long Jack



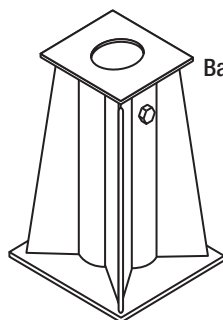
Jack Handle



Plastic Ring



Hook and Chain



Base

TOOLS NEEDED



2 People



Safety Glasses



Rubber Mallet



1/2" Wrench



5/8" Wrench



1" Wrench



Adjustable Wrench

ASSEMBLY INSTRUCTIONS

Step 1: Assembly preparation.

Before assembly, attach base to a permanent surface capable of sustaining the maximum load of 1,000 lbs. Parts for this application are not included with the purchased product.

NOTE: Base comes pre-attached to mast. Remove mast before attaching base to a permanent surface. Be sure to loosen the pre-attached bolt in the base to slide the mast out freely.

⚠ WARNING

Mount base to a permanent surface capable of sustaining the maximum load.

NOTE: If vehicle mounted, user must consult with vehicle manufacturer to ensure vehicle is capable of supporting the hoist and the hoist loaded at a maximum of 1,000 lbs. Modifications to the vehicle may be required for proper installation and safe vehicle operation.

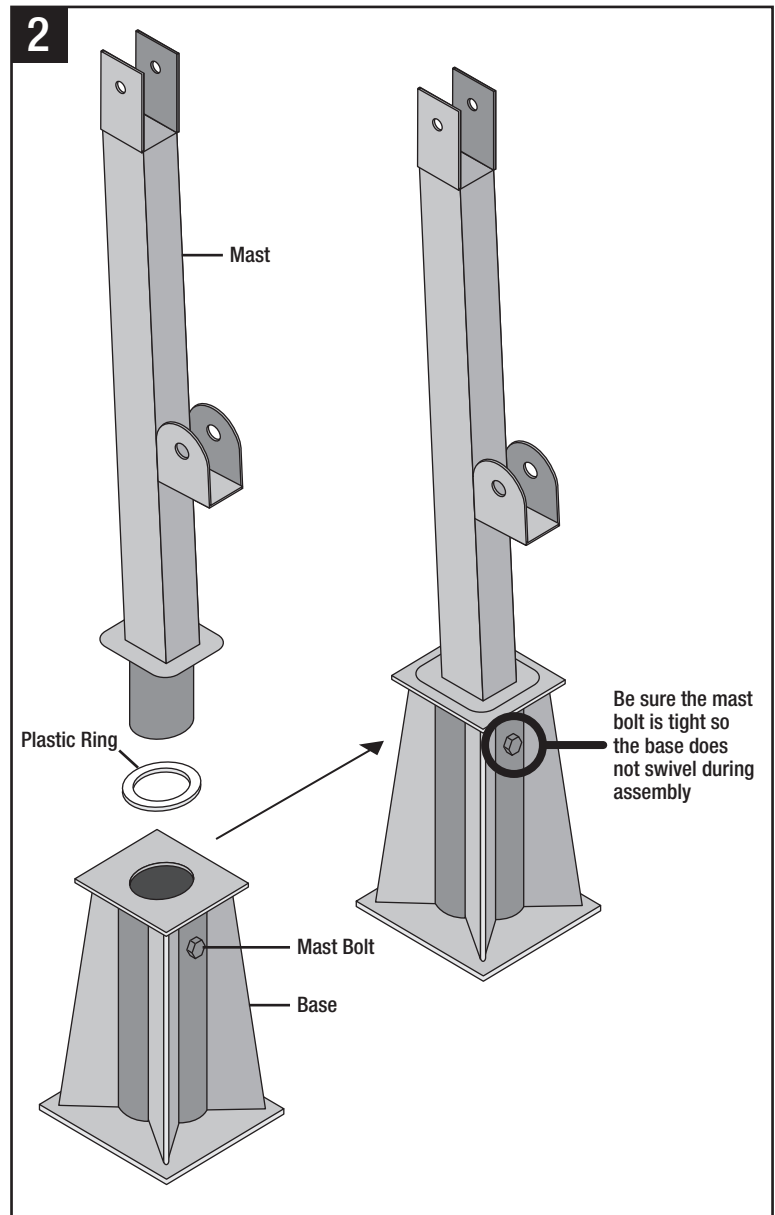
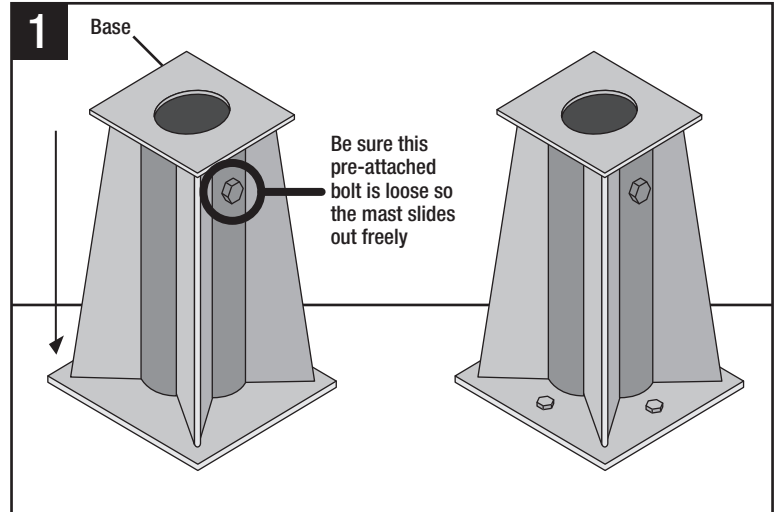
Step 2: Connecting the mast to the base.

Position the plastic ring so it fits around hole in base. Using two people, fit the mast through the plastic ring and into the hole in the base.

Tighten mast bolt after assembly to hold mast and boom in place.

⚠ WARNING

Mast bolt must be tightened to prevent mast and boom from swiveling.



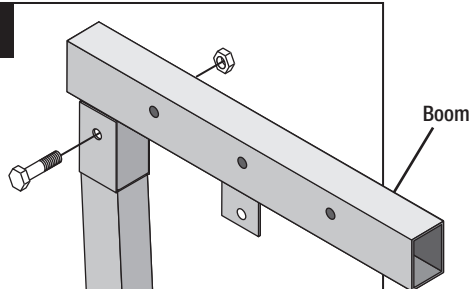
ASSEMBLY INSTRUCTIONS CONTINUED



Step 3: Connecting the boom to the mast.

Using two people, position the boom between the top plates on the mast. Align the holes in the plates with the holes in the connecting part of the boom. Use the 1" x 4-1/2" hex head bolt and nut to secure the boom to the mast and tighten.

3



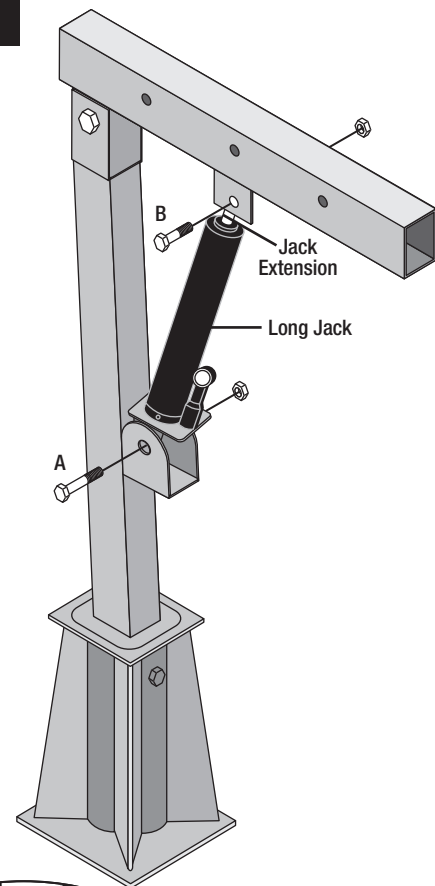
Step 4: Connecting the long jack to the mast and the boom.

1. A. Using two people, lift the long jack into place and align holes in bottom jack plates with holes in mast. Attach to mast using the 5/8" x 4-1/2" hex head bolt and nut.
- B. Align the top hole in the jack extension with the holes in the BOOM.

NOTE: Use the 5/8" x 3" hex head bolt, if necessary, to align the hole in the top of the jack extension. It may be necessary to turn the hole outward to align it properly with the boom plates.

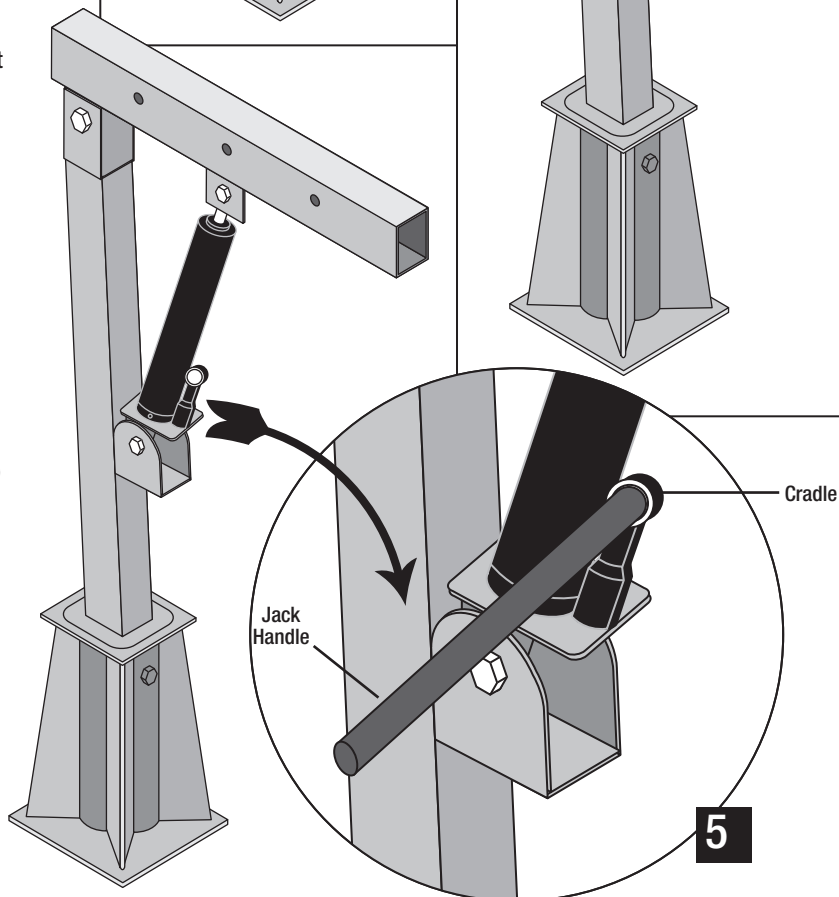
2. Attach to boom using the 5/8" x 3" hex head bolt and nut.

4



Step 5: Extend the boom to a 90° angle.

Position the jack handle in the jack cradle and pump until boom is horizontal. This will prevent the boom extension from sliding out during assembly in step number 6.

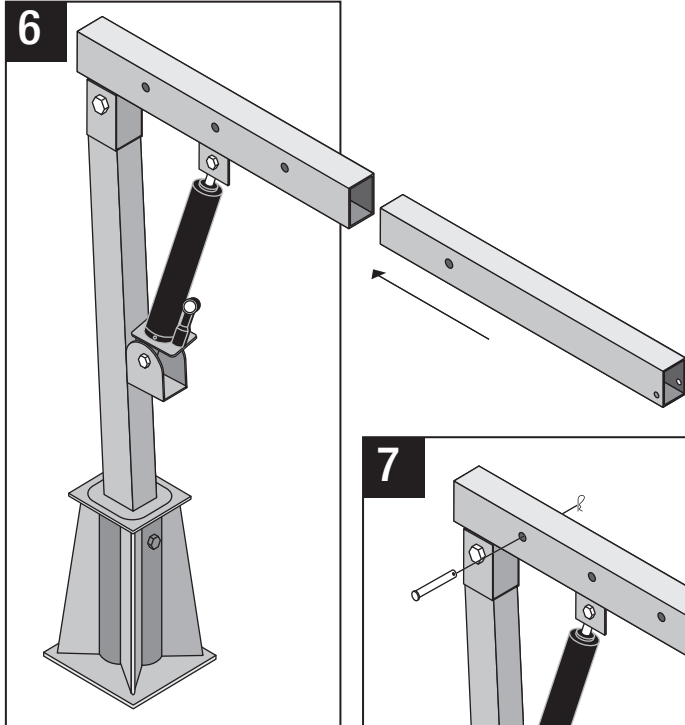


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ASSEMBLY INSTRUCTIONS CONTINUED

Step 6: Inserting boom extension into the boom.

Align the boom extension with the boom and slide into place.

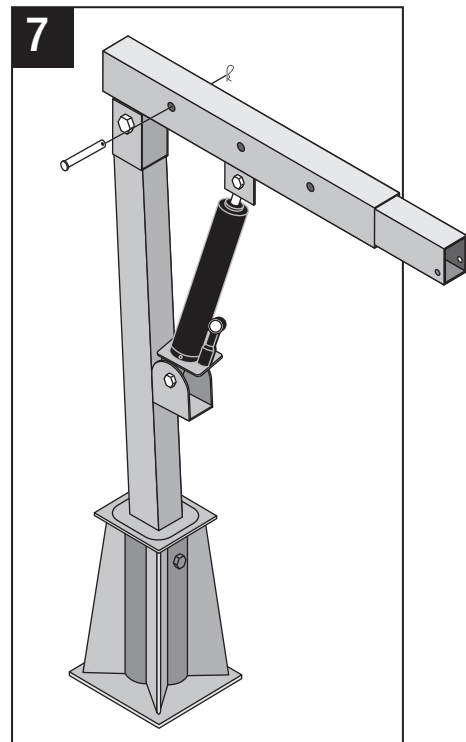


Step 7: Securing boom extension.

Make sure all holes in boom and boom extension are aligned. Use the 1/2" x 3-1/2" pin and clip to secure the boom extension to the boom at the desired lift rating.

WARNING

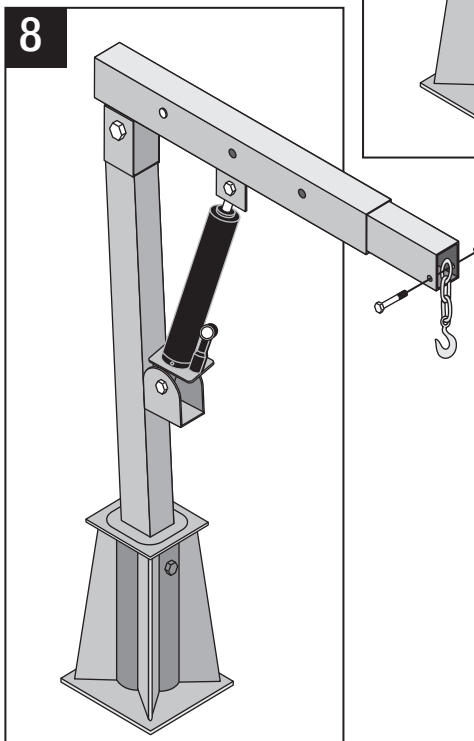
Make sure pin is completely through boom and boom extension.



Step 8: Attaching the hook and chain to the boom extension.

Using the 1/2" x 3" hex head bolt, go through one hole on the end of the boom extension, through a link of chain, and out through the opposite boom extension hole. Secure with nut.

Assembly is complete.



OPERATING INSTRUCTIONS

BEFORE OPERATION

CAUTION

Before operation, check to ensure all parts are assembled correctly and all fasteners are tight.

LONG JACK OPERATION (see illustration below)

1. Close release valve by rotating clockwise (fig. 1).
2. Insert handle into cradle (fig. 2).
3. Pump to raise the load (fig. 2).
4. Remove handle from cradle and turn release valve counter-clockwise to open. (fig. 3).

WARNING

Turn release valve SLOWLY to prevent load from dropping suddenly.

Fig. 1



Fig. 2



Fig. 3



OPERATION INSTRUCTIONS

1. Position the hoist so that the engine sling, leveler or load can be lifted by the boom hook. Attach the hook securely to the sling or load to be lifted.

Ensure that any device or devices used to attach the load to the hoist are capable of sustaining the load. The load must be secured so that it can be lifted in a safe and controlled manner. Clear the area of any bystanders and check for obstructions and hazards before operating hoist. Failure to follow these warnings could result in sudden loss of load, property damage and fatal injury.

WARNING

2. Raise the boom by first turning the release valve on the long jack clockwise until it is closed.
3. Insert the pump handle into the pump cradle and operate the pump by moving handle up and down until load is at the desired height.
4. To lower the load, remove handle from the pump cradle and slowly turn the release valve on the long jack counter-clockwise.

The release valve must be turned slowly so the load can be lowered in a safe and controlled manner. Failure to follow these warnings could result in sudden loss of load, property damage and fatal injury.

WARNING

MAINTENANCE

- Inspect the hoist before each use. Check for cracks, loose, missing, or damaged parts, and for hydraulic leaks. If the hoist is found to be badly worn or damaged in any way, it MUST BE REMOVED FROM SERVICE IMMEDIATELY UNTIL IT IS REPAIRED BY A FACTORY AUTHORIZED REPAIR FACILITY. Repair of this hoist requires specialized knowledge and facilities and must not be attempted by unauthorized agents. Use only factory authorized parts, labels, and decals on this hoist.
- Check to ensure the hoist has not been modified from its original condition. Never modify this hoist in any way. Never use unapproved accessories. Modifications and inferior accessories can lead to failure of the hoist resulting in loss of load, property damage, or fatal injury.
- Keep all surfaces of the hoist clean and free of contaminants. Maintain all labels, decals, and warnings.
- Periodically grease pivot points:
 - Boom to Upright Mast joint
 - Ram Mount to Boom
- Periodically check oil level in Hydraulic Unit.

TO CHECK OIL LEVEL:

1. Lower the Boom until the Ram is fully retracted.
2. Remove the Oil Fill Plug.
3. With Ram in horizontal position, oil should be even with bottom of Fill Plug hole. If oil is low, fill with new, clean hydraulic jack oil.

WARNING

Use only products labeled "Hydraulic Jack Oil" with this hydraulic unit. Other fluids will damage the hydraulic system, resulting in failure of the hoist.

4. Replace filler plug.
5. Close Release Valve and check for proper Hydraulic Unit operation.

STORAGE

1. Retract boom and secure with locking pin.
2. Slowly turn release valve on long jack counter clockwise and allow boom to reach its lowest position. Turn release valve on long jack clockwise to close and store in closed position.
3. Ensure that mast bolt in base of the hoist is tightened to prevent boom and mast from moving un-expectedly.
4. Ensure that boom is stored in a manner which will prevent it from coming into contact with any obstructions.

TROUBLESHOOTING

HYDRAULIC SYSTEM AIR PURGE - Air may occasionally enter the hoist's hydraulic system, hindering operation of the ram. To purge air:

1. Turn Release Valve counterclockwise to open.
2. Slowly pump Handle eight full strokes.
3. Close Release Valve.
4. Pump Handle until Ram is fully extended and continue to pump Handle to purge air from underneath the Ram.
5. Lower Boom.
6. Repeat as often as necessary.

OTHER SYMPTOMS:

SYMPTOM	CAUSE	REMEDY
Ram will not lift to full height	Low Oil Level	see Check Oil Level
Hydraulic Ram will not hold	Release Valve Open	Close Release Valve
	Pump Valves not sealing	Contact Arcan
	Air trapped in system	see Air Purge
Boom will not lower	Ram binding	Contact Arcan
	Release Valve broken	Contact Arcan
	Parts worn/bent	Contact Arcan
Hydraulic action feels spongy	Air trapped in system	See Air Purge

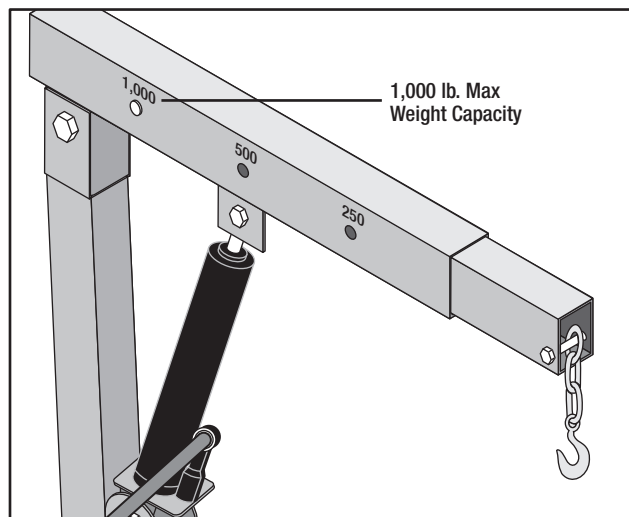
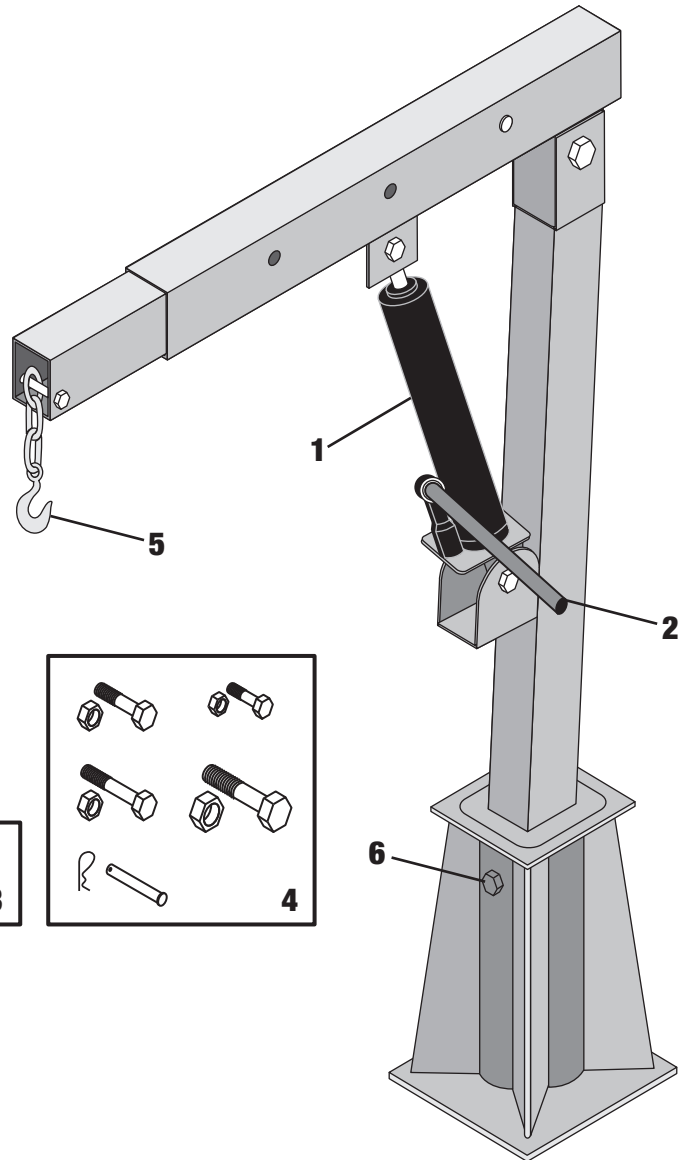
SPECIFICATIONS AND PARTS LIST

SPECIFICATIONS

	POS. 1	POS. 2	POS. 3
Max Lifting Height Base to Hook:	106"	95.5"	88"
Min Lifting Height Base to Hook:	15"	21.5"	27.25"
Boom Capacity:	250 lbs	500 lbs	1000 lbs
Boom Ext (From End to Ram):	48"	38"	28"
Base Dimensions:	10-1/4" x 10-1/4"		
Boom Swivel:	360°		
Power Unit:	8 Ton Heavy Duty Quick Lift		
Shipping Weight:	135 lbs		

PARTS LIST

ITEM	PART #	# REQ'D	DESCRIPTION
1	RS5040B	1	Long Jack (with handle)
2	RS5040BHD	1	Jack Handle
3	SWH1001	1	Plastic Ring
4	SWH1002	1	Hardware Kit
			1/2" x 3" Hex Head Bolt and Nut
			5/8" x 3" Hex Head Bolt and Nut
			5/8" x 4-1/2" Hex Head Bolt and Nut
			1" x 4-1/2" Hex Head Bolt and Nut
			1/2" x 3-1/2" Pin and Clip
5	SWH1003	1	Hook and Chain
6		1	Mast Bolt



We want to know if you have any problems with our products. If you are missing any parts or find any damage, call Arcan directly, and we will remedy the situation. Please do not call the store where you purchased this product.

Customer Service: (800) 879-7316
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