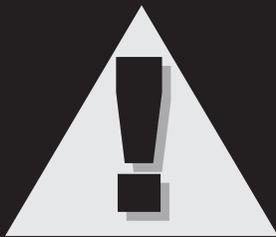


OPERATOR'S MANUAL 2-Ton Folding Engine Crane



WARNING:

IMPORTANT: READ THESE INSTRUCTIONS AND ALL WARNINGS PRIOR TO USING THIS EQUIPMENT. UNDERSTAND ALL OPERATING PROCEDURES, SAFETY WARNINGS AND MAINTENANCE REQUIREMENTS. FAILURE TO DO SO COULD CAUSE AN ACCIDENT RESULTING IN SERIOUS OR FATAL INJURY AND/OR PERSONAL PROPERTY DAMAGE.

A



Brand

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PACKAGE CONTENTS

BOX 1

REF	DESCRIPTION	QTY
1	Base Assembly	1
2	Swivel Caster 3"	2
3	Assembly Hardware	Lot

BOX 2

REF	DESCRIPTION	QTY	REF	DESCRIPTION	QTY
4	Front Leg	2	9	Hydraulic Ram	1
5	Boom	1	10	Pump Handle	1
6	Boom Extension	1	11	Swivel Caster 3-1/2"	4
7	Main Support Post	1	12	Handle	1
8	Support Strap	2	13	Connect Plate	2

SAFETY INFORMATION

Save these instructions. For your safety, read, understand, and follow the information provided with and on this product before using. The owner and/or operator of this equipment shall have an understanding of safe use/operating procedures before attempting to use. The owner and/or operator shall be aware that the use of this product may require special skills and knowledge. Instructions and safety information shall be conveyed in the operator's native language before use of this device is authorized. If any doubt exists as to the safe and proper use of this product as outlined in this factory-authorized manual, remove from service immediately.

Inspect before each use. Do not use if broken, bent, cracked, or damaged parts (including labels) are noted. If the product appears damaged in any way, operates abnormally or is missing parts, it should be removed from service immediately and the manufacturer notified. If you suspect that the product was subjected to a shock load (a load suddenly dropped unexpectedly upon it), immediately discontinue use until product has been checked by a factory-authorized service center (contact distributor or manufacturer). It is recommended that an annual inspection be done by qualified personnel. Labels and owner's manuals are available from the manufacturer.

SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance, and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

WARNING

WARNING: Indicates a hazardous situation which, if not avoided, could result in death or serious injury

WARNING INFORMATION

⚠ WARNING

- Study, understand, and follow all instructions before operating this device.
- Do not exceed 2-ton rated capacity for the engine crane.
- Use only on hard, level surfaces.
- Before moving, lower the load to the lowest possible point.
- Use only sling or chains with a rated capacity greater than the weight of the load being lifted.
- Do not allow load to swing or drop violently while lowering or moving.
- Do not make any alterations or modifications to engine crane.
- Do not adjust safety valve.
- Properly extend leg extensions and secure boom in proper setting before use.
- Follow capacities marked on boom; capacity decreases as boom lengthens.
- Wear ANSI-approved safety goggles and heavy-duty work gloves during use.
- Verify replacement jack has same rating, mounting points, and maximum length.
- Inspect before every use; do not use if parts loose or damaged.
- Keep your work area clean and well lit. Cluttered work areas invite accidents.
- Keep bystanders, children, and visitors away while operating engine crane. Distractions can cause you to lose control.
- Stay alert. Watch what you are doing, and use common sense when operating a jack. Do not use a jack while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating jacks may result in serious personal injury.
- Maintain labels and nameplates on the engine crane. These carry important information.

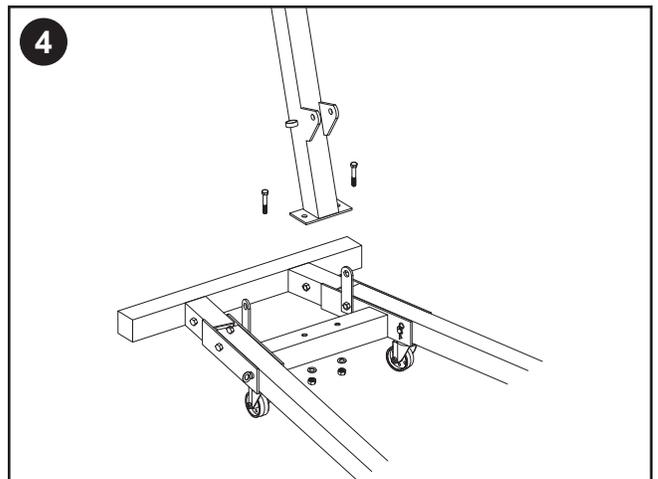
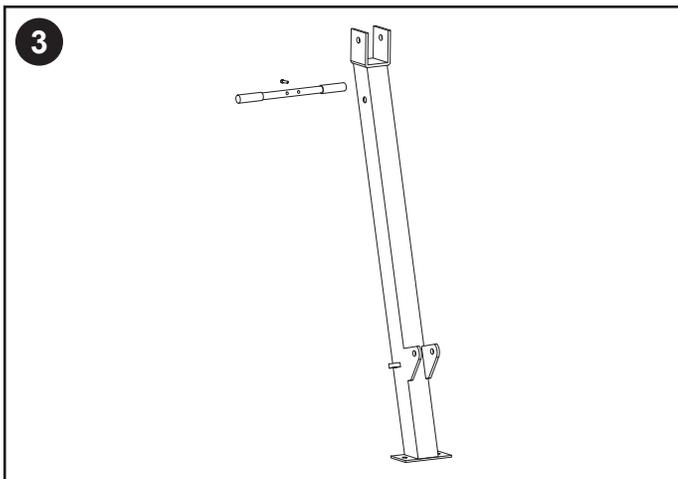
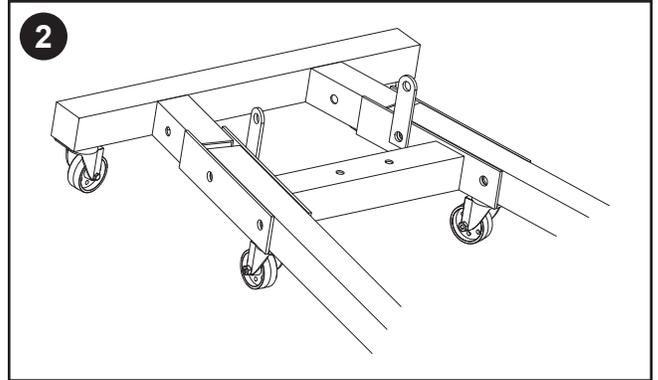
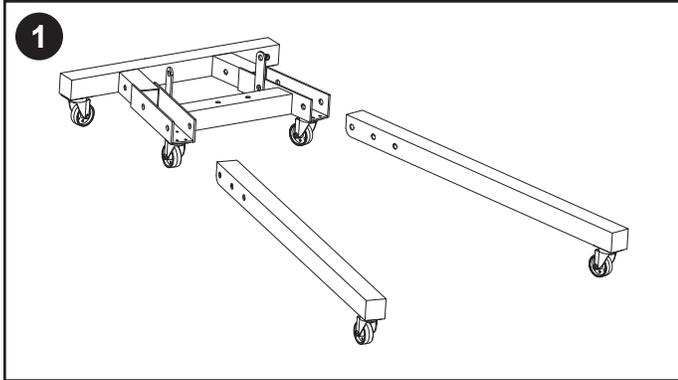
OWNER'S MANUAL

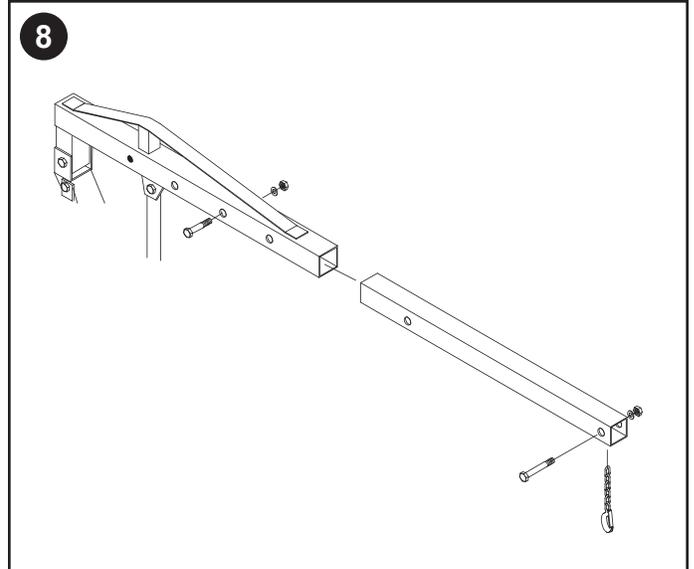
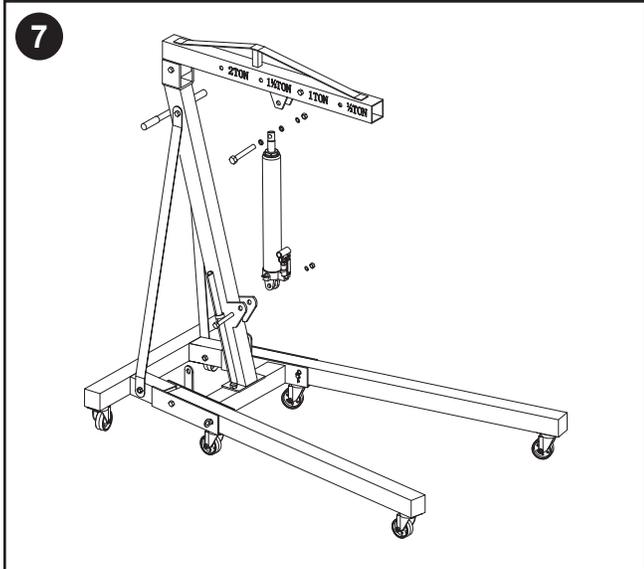
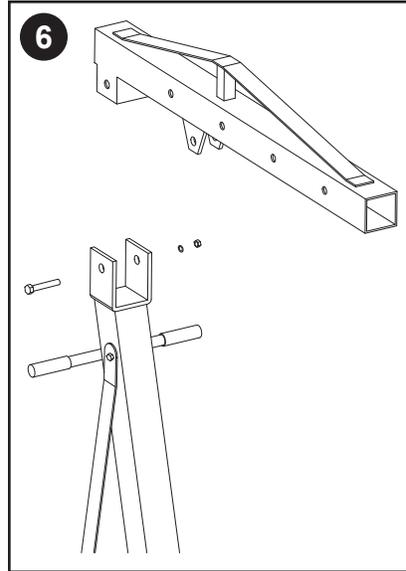
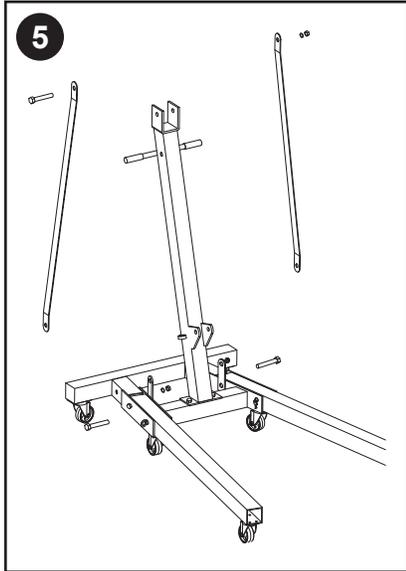
ASSEMBLY INSTRUCTIONS

For safety and ease of assembly, use two people to assemble the Folding Engine Crane

IMPORTANT! Do not tighten any bolts until you are fully finished with assembly. Otherwise, parts will not line up properly

1. Slide legs into front of the base.
2. Lock legs in place using the bolts and spring pins. First, insert the bolts and then insert the ring pins. Lift up on the front of the base until the holes line up. After the two bolts and two ring pins are inserted, put the two spring washers and two nuts in place. Insert the two ring pins through the small holes.
3. Use tow bolts and washers to fasten the handle to the post.
4. Use the bolts, washers, and nuts to secure the bottom of the post to the base
5. Use two bolts, washers, and nuts to fasten the lower ends of the supports to the outside of the frame, then use one bolt, washer, and nut to fasten the top ends of the supports to the post.
6. Use the bolt, washer, and nut to attach the boom to the top of the post.
7. Use a bolt, washer, and nut to attach lower end of the jack to the post and another bolt, washer, and nut to attach the top of the jack to the boom.
8. Slide the boom extension into the booo and use the bolt, washer, and nut to secure at the desired load rating. Use the bolt, washer, and nut to attach the hook and chain to the end of the boom extension.





OPERATING INSTRUCTIONS



This is the safety alert symbol used for the **OPERATING INSTRUCTIONS** section of this manual to alert you to potential personal injury hazards. Obey all instructions to avoid possible injury or death. Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at beginning of this manual including all text under subheadings therein before set-up or use of this product.

NOTE: Once assembly is fully completed, tighten **ALL** bolts before initial operation

LIFTING AND LOWERING

1. Locate the hole on the boom with a weight limit higher than the weight you will be lifting. For example: Locate the 1 TON hole on the boom for a load that is under one ton.
2. Adjust the boom extension so the hole furthest from the hook-end aligns with the chosen hole on the boom. Secure into place by inserting the bolt through all aligned holes and tightening in place with the washer and nut.

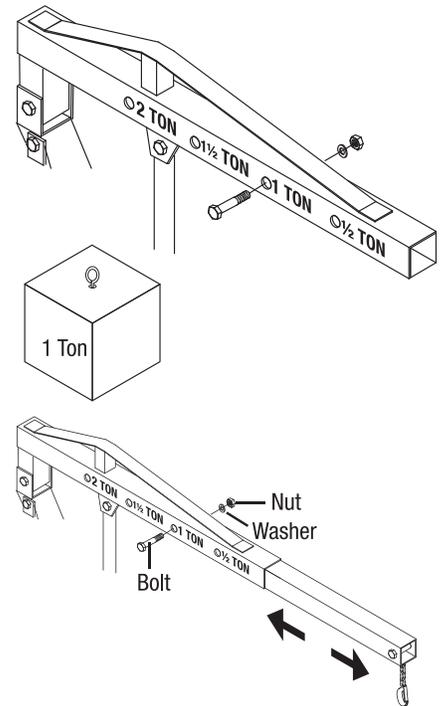
WARNING: Do not stand under an object that is being lifted by the engine crane. Be aware of the possibility of a load slipping off the hook and chain. An item that falls from the crane can cause serious injury.

3. Move the crane so that the hook and chain is directly above the item to be lifted.
4. Securely attach the hook and chain to the item.
5. To raise the boom, turn the jack's release valve fully clockwise (right). Insert the handle into the jack and pump (up and down) repeatedly until the item has been lifted to the desired height.

WARNING! Be sure to fully tighten the release valve or else the jack may lower or may not be able to reach the full height.

WARNING! DO NOT MOVE THE CRANE WHEN UNDER LOAD. The casters are not designed to be rolled when the crane is lifting heavy objects.

6. To lower the crane, SLOWLY turn the jack's release valve counterclockwise (left).

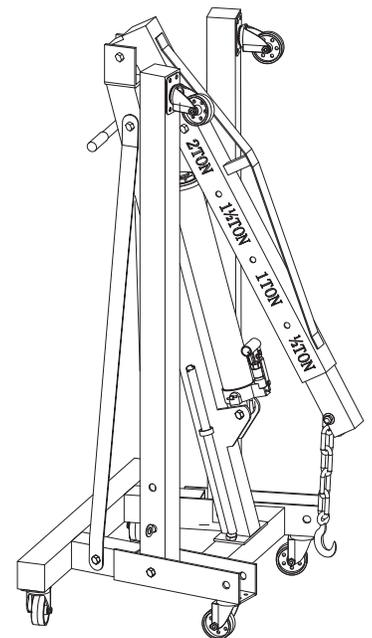


FOLDING THE FRAME

WARNING! Do not fold crane while loaded.

1. Lower crane all the way.
2. Remove R-pins from the front ring pins. Remove the front ring pins. Leave rear ring pins in.
3. Raise leg until it rests against handle.
4. Insert a front ring pin into the middle hole of the base for each leg and reinsert R-pins.

NOTE: Be certain that when unfolding, both ring pins and R-pins are placed back in the proper places.



BLEEDING INSTRUCTIONS



IMPORTANT! Before first use, check for proper hydraulic oil level and thoroughly test the equipment. If it does not work properly, bleed excess air from its hydraulic system as follows:

1. Open release valve and lower jack completely.
2. Remove oil plug and fill with hydraulic oil (sold separately) to full level.
3. Apply downward pressure to the boom and pump the jack handle quickly several times.
4. Check the oil fill hole and, if necessary, top off the oil fill hole with hydraulic oil.
5. Replace the oil plug and close the release valve.
6. Test the equipment several times for proper operation before attempting to lift a load. If, after bleeding, the equipment still does not appear to be working properly, do not use the equipment until it has been repaired by a qualified service technician.

PREVENTATIVE MAINTENANCE



WARNING! TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

NOTE: Procedures not specifically explained in this manual must be performed only by a qualified technician.

1. Before each use, inspect the general condition of the jack. Check for broken, cracked, or bent parts, loose or missing parts, and any condition that may affect the proper operation of the product. If a problem occurs, have the problem corrected before further use. Do not use damaged equipment.
2. Before each use, thoroughly test the jack for proper operation prior to its actual use. If the jack appears not to be working properly, follow bleeding instructions.
3. Change the hydraulic oil at least once every three years:
 - A. With the jack fully lowered, remove the oil filler plug on the side of the housing.
 - B. Tip the jack to allow the old hydraulic oil to drain out of the housing completely, and dispose of the old hydraulic oil in accordance with local regulations.
 - C. With the jack upright, completely fill the housing with a high quality hydraulic oil (not included) until the oil just begins to run out of the oil fill hole.
 - D. Open the valve release screw and pump the handle to bleed air from the system.
 - E. Reinstall the oil filler plug.
4. Wipe dry with a clean cloth. Then, store the jack in a safe, dry location out of reach of children and other non-authorized people.

TROUBLESHOOTING



This is the safety alert symbol used for the **TROUBLESHOOTING** section of this manual to alert you to potential personal injury hazards. Obey all instructions to avoid possible injury or death. Do not use damaged equipment.

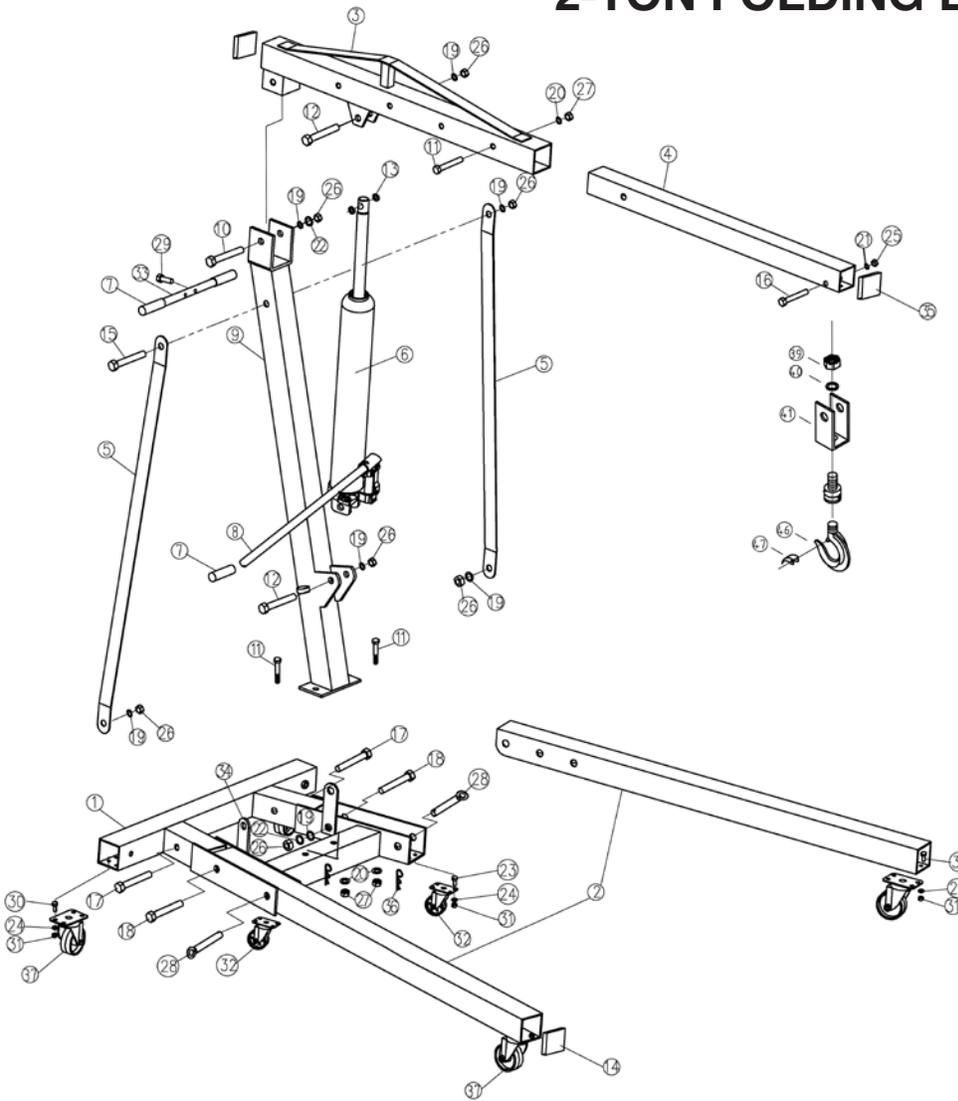
WARNING! To prevent serious injury: Use caution when troubleshooting malfunctioning jack. Stay clear of supported load. Completely resolve all problems before use. If solutions presented in Troubleshooting guide do not solve the problem, have a qualified technician inspect and repair jack before use. After jack is repaired: Test it carefully without a load by raising and lowering it fully, checking for proper operation, before returning jack to operation.

SYMPTOM	REMEDY (Make certain that the jack is not supporting a load while attempting a solution)
Jack will not lift at its weight capacity	Check that the release valve is closed fully. Bleed air from the system.
	Valves may be blocked and may not close fully. To flush the valves:
	1. Lower the chain / hook and securely close the release valve.
	2. Manually lift the chain / hook several inches.
Chain and/or hook lowers under load	3. Open the release valve and force the chain/ hook down as quickly as possible.
	Jack may be low on oil. Check the oil level and refill if needed.
	Jack may require bleeding. See instructions.
	Check that the release valve is closed fully. Bleed air from the system.
Pump stroke feels spongy	Valves may be blocked and may not close fully. To flush the valves:
	1. Lower the chain / hook and securely close the release valve.
	2. Manually lift the chain / hook several inches.
	3. Open the release valve and force the chain/ hook down as quickly as possible.
Chain and/or hook will not lift all the way	Jack may be low on oil. Check the oil level and refill if needed.
	Jack may require bleeding. See instructions.
Handle moves up when jack is under load	Jack may be low on oil. Check the oil level and refill if needed.
	Valves may be blocked and may not close fully. To flush the valves:
	1. Lower the chain / hook and securely close the release valve.
Oil leaking from filler plug	2. Manually lift the chain / hook several inches.
	3. Open the release valve and force the chain/ hook down as quickly as possible.
	Unit may have too much hydraulic oil inside. Check fluid level and adjust if needed.

2-TON FOLDING ENGINE CRANE

PROD. NO. 030319

MOD. NO. 216-1

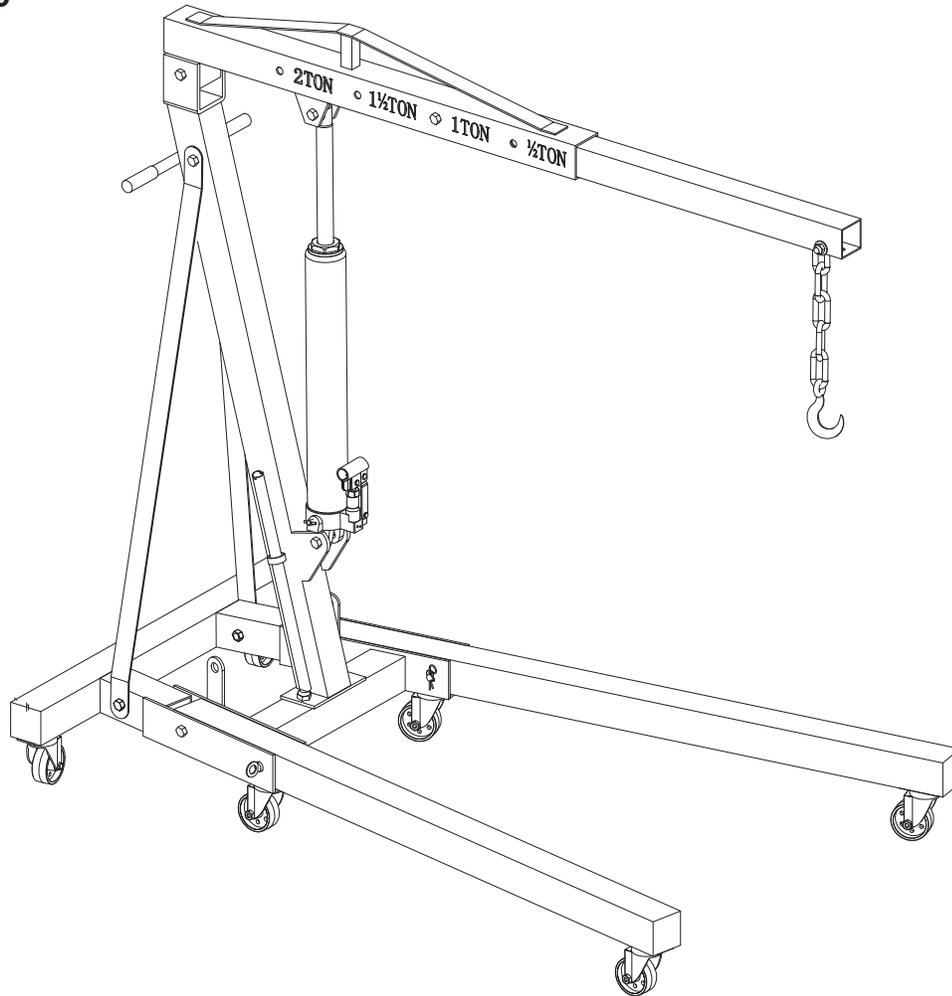


REF	PART NUMBER	DESCRIPTION	REQ	REF	PART NUMBER	DESCRIPTION	REQ	REF	PART NUMBER	DESCRIPTION	REQ
1	PCN-216-1P01	FRAME BASE	1	15	PCN-216-1P15	BOLT	1	29	PCN-216-1P29	BOLT	2
2	PCN-216-1P02	FRAME LEG	2	16	PCN-216-1P16	BOLT	1	30	PCN-216-1P30	BOLT	16
3	PCN-216-1P03	CROSS BEAM ASSEMBLY	1	17	PCN-216-1P17	BOLT	2	31	PCN-216-1P31	NUT	24
4	PCN-216-1P04	BOOM EXTENSION	1	18	PCN-216-1P18	BOLT	2	32	PCN-216-1P32	CASTER B	2
5	PCN-216-1P05	SUPPORT STRAP	2	19	PCN-216-1P19	WASHER	8	33	PCN-216-1P33	PULL HANDLE	1
6	PCN-216-1P06	HYDRAULIC RAM	1	20	PCN-216-1P20	WASHER	3	34	PCN-216-1P34	RESTRAINT BRACKET	2
7	PCN-216-1P07	HANDLE GRIP	3	21	PCN-216-1P21	WASHER	1	35	PCN-216-1P35	PLASTIC COVER	1
8	PCN-216-1P08	PUMP HANDLE	1	22	PCN-216-1P22	WASHER	3	36	PCN-216-1P36	R-PIN	2
9	PCN-216-1P09	MAIN SUPPORT POST	1	23	PCN-216-1P23	BOLT	8	37	PCN-216-1P37	CASTER A	4
10	PCN-216-1P10	BOLT	1	24	PCN-216-1P24	WASHER	24	38-49	PCN-216-1P46	HOOK ASSEMBLY	1
11	PCN-216-1P11	BOLT	3	25	PCN-216-1P25	NUT	1				
12	PCN-216-1P12	BOLT	2	26	PCN-216-1P26	NUT	8				
13	PCN-216-1P13	BUSHING	2	27	PCN-216-1P27	NUT	3				
14	PCN-216-1P14	PLASTIC COVER	5	28	PCN-216-1P28	FRAME PIN W/HAIR PIN	2				

2-TON FOLDING ENGINE CRANE

PROD. NO. 030319

MOD. NO. 216-1



SPECIFICATIONS

Capacity (tons)	Capacity (lbs)	Shipping weight	Handle length	Base Length	Base Width (Front)	Base width (Rear)	Folded Height	Wheel Diameter Front	Wheel Diameter Rear	Wheel Diameter Middle
2	4,000	86 kgs	498 mm	1,656 mm	1,000 mm	800 mm	1,530 mm	Φ90x31	Φ90x31	Φ75x28

Boom Extensions

Position	Capacity (tons)	Capacity (lbs)	Boom Length	Min Height	Max Height
1	1/2	1,000	54.7"	/	88.2"
2	1	2,000	47.6"	/	82.9"
3	1-1/2	3,000	40.6"	9.4"	77.4"
4	2	4,000	33.5"	15.7"	72.1"