Our associates will ensure the tool works properly before you leave the store. If you experience issues with the tool while completing your project, simply bring it back to the Tool Rental Center to get a replacement. If you purchase Damage Protection at the time of your rental, you are not responsible for repair costs for tools that break due to normal use.

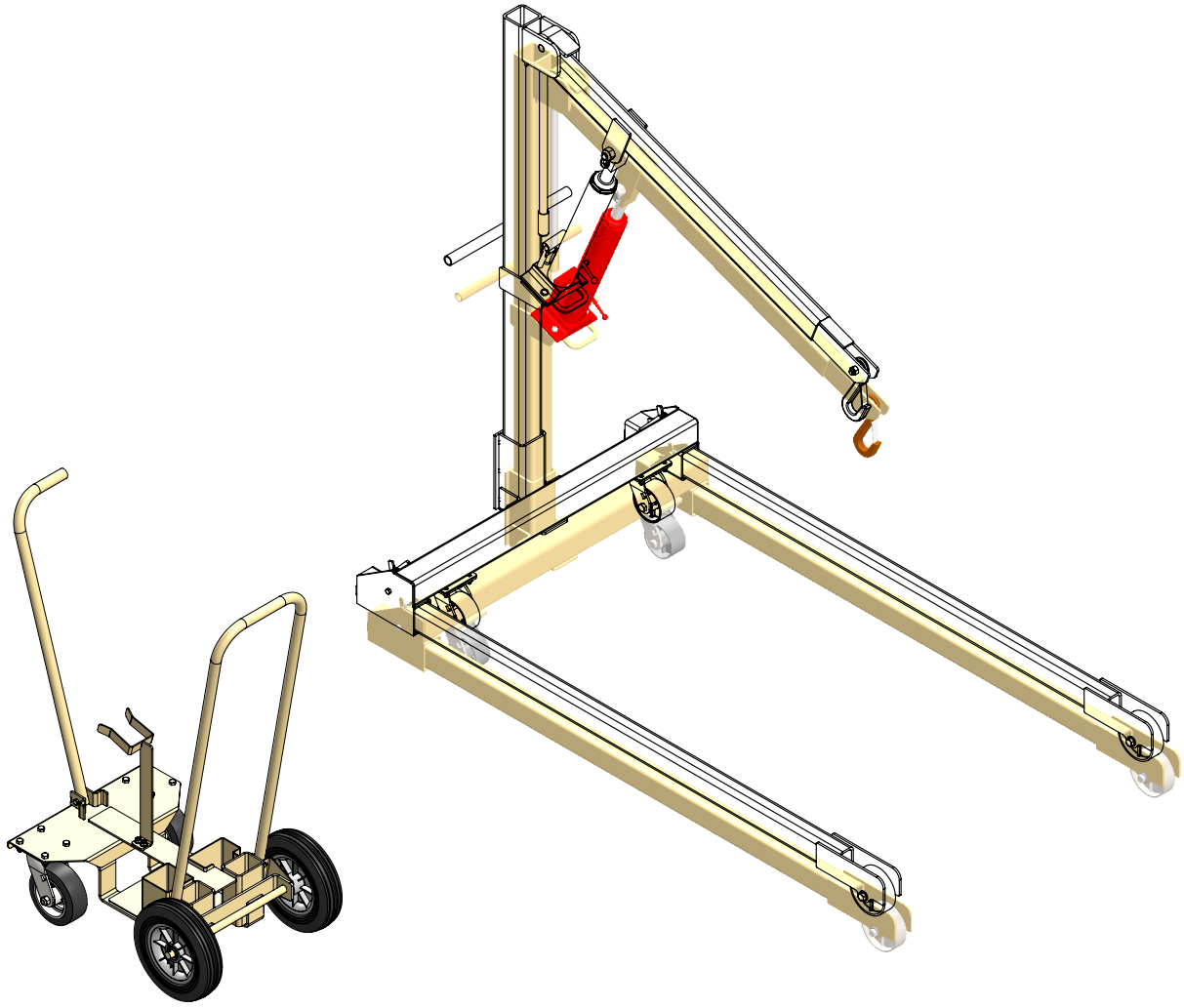
Engine hoist depicted in this manual varies slightly to the one you are renting. Difference is illustrated on page (8)

Video for demonstrational pupose only

STARTING SERIAL # 220810065

OPERATORS INSTRUCTIONS AND PARTS LIST MANUAL

MODEL EH1500



Engine Hoist and Engine Hoist Carrier Cart

SKU #	MODEL #
99500-SBG	EH1500

READ AND UNDERSTAND THE OPERATOR'S SAFETY MANUAL THOROUGHLY BEFORE ATTEMPTING TO OPERATE THIS EQUIPMENT.

Death or serious injury could occur if this machine is used improperly.

Machine specific Operator's Instruction Manuals are offered at edcoinc.com/customer-support/parts-and-manuals

EQUIPMENT DEVELOPMENT COMPANY, INC.
100 Thomas Johnson Drive, Frederick, MD 21702-4600 USA
Phone: 800-638-3326 or 301-663-1600 • Fax: 800-447-3326 or 301-663-1607
Website: www.edcoinc.com • E-mail: techsupport@edcoinc.com

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SAFETY INFORMATION

SAFETY MESSAGES

• Safety Instructions are proceeded by a graphic alert symbol of DANGER, WARNING, or CAUTION.

DANGER Indicates an imminent hazard which, if not avoided, will result in death or serious injury.

WARNING Indicates an imminent hazard which, if not avoided, can result in death or serious injury.

CAUTION Indicates hazards which, if not avoided, could result in serious injury and or damage to the equipment.

GASOLINE / PROPANE POWERED EQUIPMENT

WARNING • Engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

WARNING • Tilting a gasoline powered machine fitted with an EPA approved vented charcoal filter gas cap, beyond 20° can cause fuel leakage. If a leak occurs, do not start or run the engine until the leak is fixed. Eliminate all other ignition sources in the immediate area (no smoking, flares, sparks or flames). Use approved gasoline absorbing material to contain the fuel leakage. Then use clean, non-sparking tools to collect absorbed materials then dispose of these contaminants properly.

• Gasoline is extremely flammable and poisonous. It should only be dispensed in well ventilated areas, and with a cool engine.

• Small gasoline engines produce high concentrations of carbon monoxide (CO) example: a 5 HP 4 cycle engine operation in an enclosed 100,000 cu. ft. area with only one change of air per hour is capable of providing deadly concentrations of CO in less than fifteen minutes. Five changes of air in the same area will produce noxious fumes in less than 30 minutes. Gasoline powered equipment should not be used in enclosed or partially enclosed areas. Symptoms of CO poisoning include, head-ache, nausea, weakness, dizziness, visual problems and loss of consciousness. If symptoms occur - get into fresh air and seek medical attention immediately.

- Never refuel a hot engine or an engine while it is running.
- Engines are shipped from factory without fuel/oil.

• Propane is extremely flammable and is heavier than air and tends to settle in low areas where a spark or flame could ignite gas. DO NOT start or operate this propane engine in a poorly ventilated area where leaking propane gas could accumulate and endanger safety of persons in area. If headache develops, shut off machine. Have it checked for carbon monoxide emissions by a qualified technician before using it again. To ensure personal safety, installation and repair of propane fuel supply systems must be performed only by qualified technicians. Carbon monoxide emissions from this machine are greatly increased due to a dirty combustion air cleaner.

ELECTRICAL POWERED EQUIPMENT

Extreme care must be taken when operating electric models with water present: Ensure power cord is properly grounded, is attached to a Ground-Fault-Interrupter (GFI) outlet, and is undamaged.

- Check all electrical cables - be sure connections are tight and cable is continuous and in good condition. Be sure cable is correctly rated for both the operating current and voltage of this equipment.
- Improper connection of the equipment grounding conductor can result in a risk of electric shock. Check with qualified electrician or service person if there is any doubt as to whether the outlet is properly grounded. Adhere to all local codes and ordinances.
- NOTE: In the event of a malfunction or breakdown, grounding provides a path of least resistance for the electric current to dissipate. The motor is equipped with a grounded plug and must be connected to an outlet that is properly installed and properly grounded. DO NOT modify the plug provided on the motor. If the plug does not fit the outlet have a qualified electrician install the proper receptacle.

ELECTRICAL POWERED EQUIPMENT CONTINUED

- Do not disconnect power by pulling cord. To disconnect, grasp the plug, not the cord.
- Unplug power cord at the machine when not in use and before servicing.
- Switch motor OFF before disconnecting power.
- Never use frayed, damaged, taped or under rated extension cords. Electrical shock could result in death or serious injury to the operator and damage to the equipment.
- Assure you are using the proper extension cord length.

GENERAL INSTRUCTIONS

- Equipment should only be operated by trained personnel in good physical condition and mental health (not fatigued). The operator and maintenance personnel must be physically able to handle the bulk weight and power of this equipment.
- This is a one person tool. Maintain a safe operating distance to other personnel. It is the operators' responsibility to keep other people (workers, pedestrians, bystanders, etc.) away during operation. Block off the work area in all directions with roping, safety netting, etc.
  Failure to do so may result in others being injured by flying debris or exposing them to harmful dust and noise.
- This equipment is intended for commercial use only.
- For the operator's safety and the safety of others, always keep all guards in place during operation.
- Never let equipment run unattended.

- Personal Protection Equipment and proper safety attire must be worn when operating this machinery. The operator must wear approved safety equipment appropriate for the job such as hard hat and safety shoes when conditions require. Hearing protection MUST be used when operational noise levels of this equipment may exceed 85db. Eye protection MUST be worn at all times.

Keep body parts, loose clothing and accessories away from moving parts. Failure to do so could result in dismemberment or death.

- Do not modify the machine.
- Stop motor/engine when adjusting or servicing this equipment. Maintain a safe operating distance from flammable materials. Sparks from the cutting-action of this machine can ignite flammable materials or vapors.

DUST WARNING

WARNING Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects, or other reproductive harm. Materials being removed can be toxic or hazardous. A breathing respirator is required to help protect the operator.

Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, concrete and other

masonry products.Your risk of exposure to these chemi cals varies depending on how often you do this type of work. To reduce your risk: work in a well ventilated area, use a dust control system, such as an industrial-style vacuum, and wear approved personal safety equipment, such as a dust/particle respirator designed to filter out microscopic particles.

• See more on the importance of dust prevention and silica warnings at: osha.gov/silica

• More concrete and silica dust supression training and educational materials available at edcoinc.com/silica-standards or scan the QR code on page 5.

• Written exposure plans are provided at http://www.edcoinc.com/written-exposure-control-plans/

PARTS LIST MANUAL

MODEL EH1500

Engine Hoist and Engine Hoist Carrier Cart

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HOW TO ORDER REPLACEMENT PARTS

- To insure product safety and reliability, always use genuine EDCO replacement parts when making repairs to the equipment.
- When calling for parts, specify the MODEL and SERIAL number of the machine, which can be found on the NAME PLATE. Keep that information in the space provided. In addition to this information, give part number, description, and quantity as listed on the parts list to your parts representative.
- Please note: Due to improvements and changes in the equipment, the illustrations shown may be different than the actual machine.

FILL IN INFORMATION BELOW

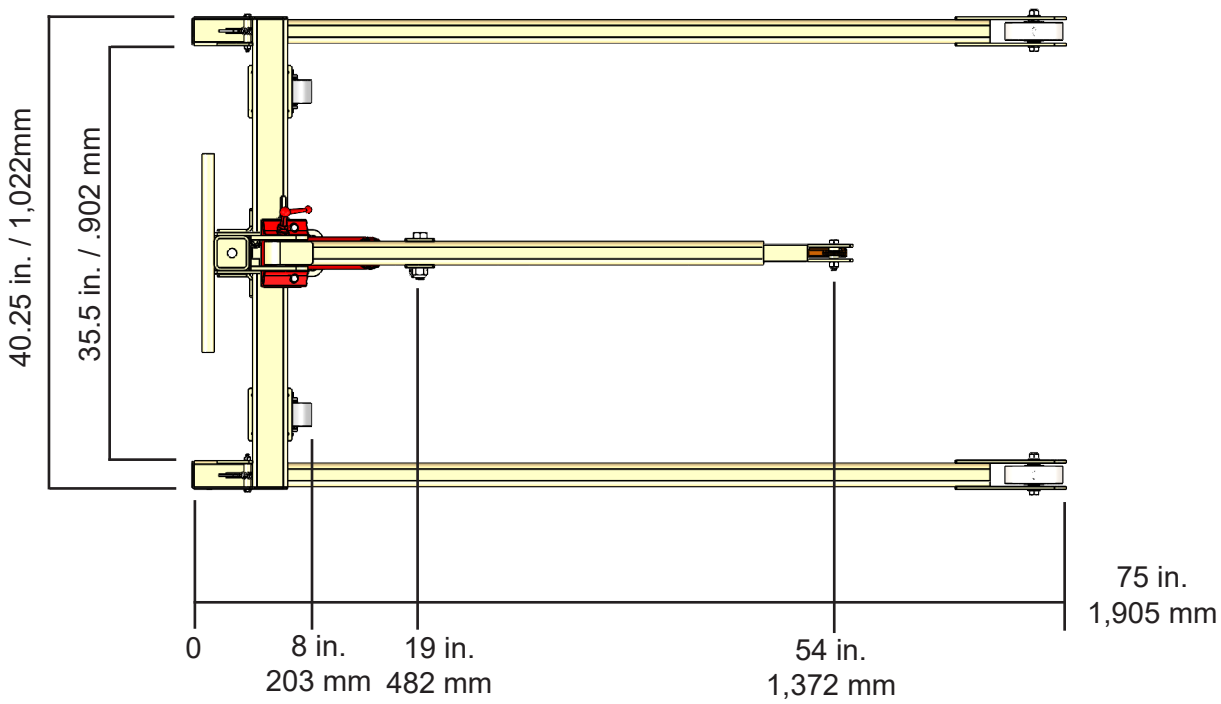
Date of Purchase _____

Model # _____

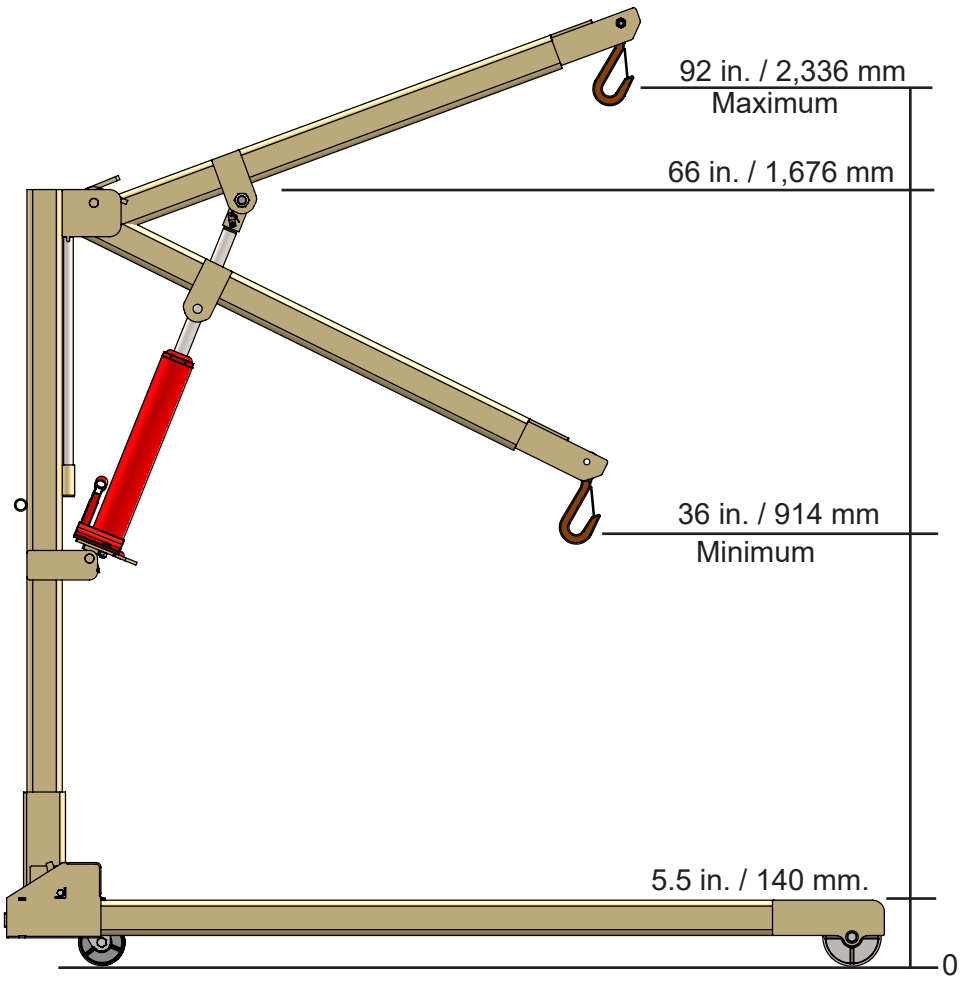
Serial # _____

SKU # _____

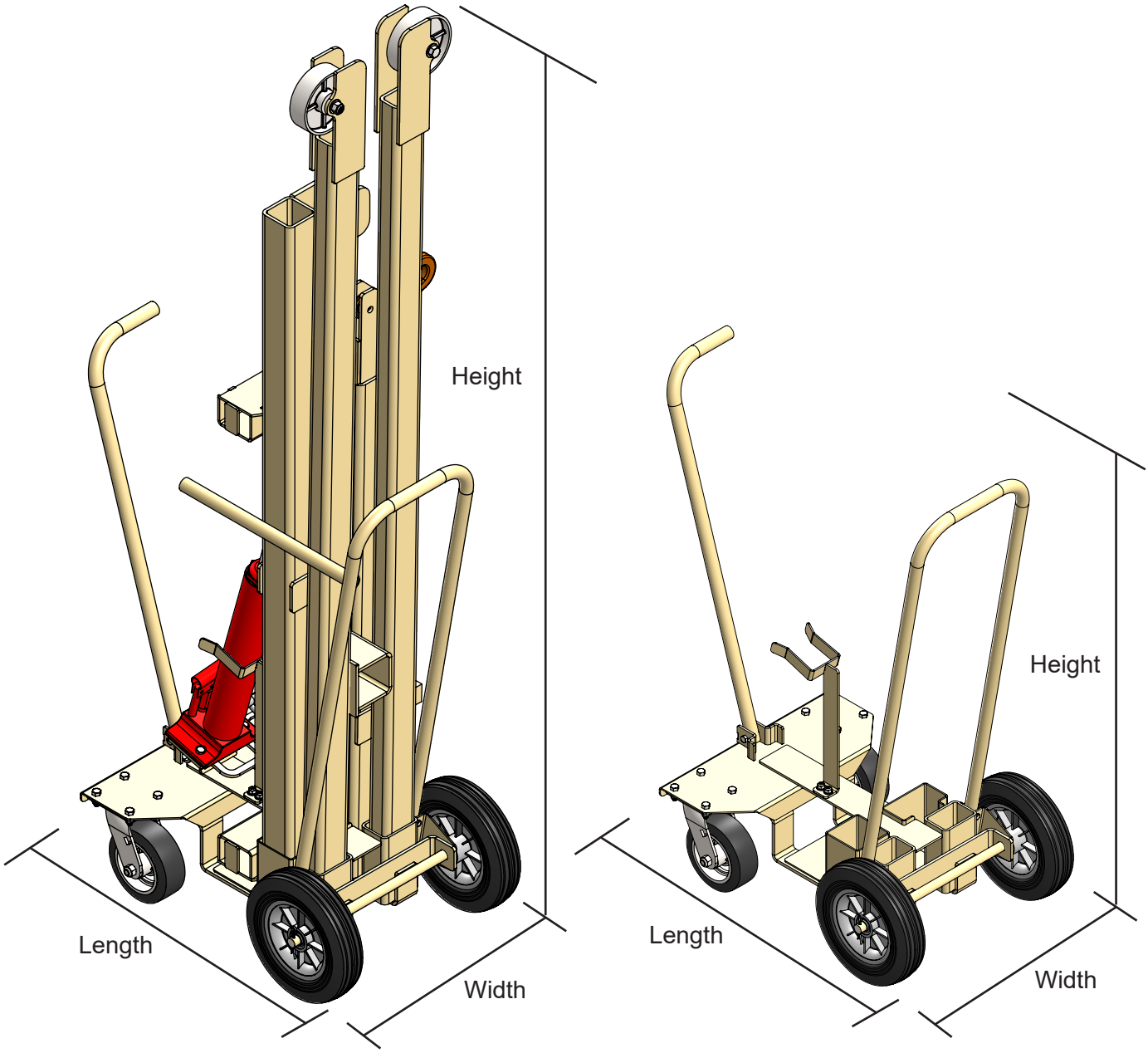
DIMENSIONS AND WEIGHT



Dimensions and Weight are approximate and subject to change.	
Weight	267 lb / 121 kg

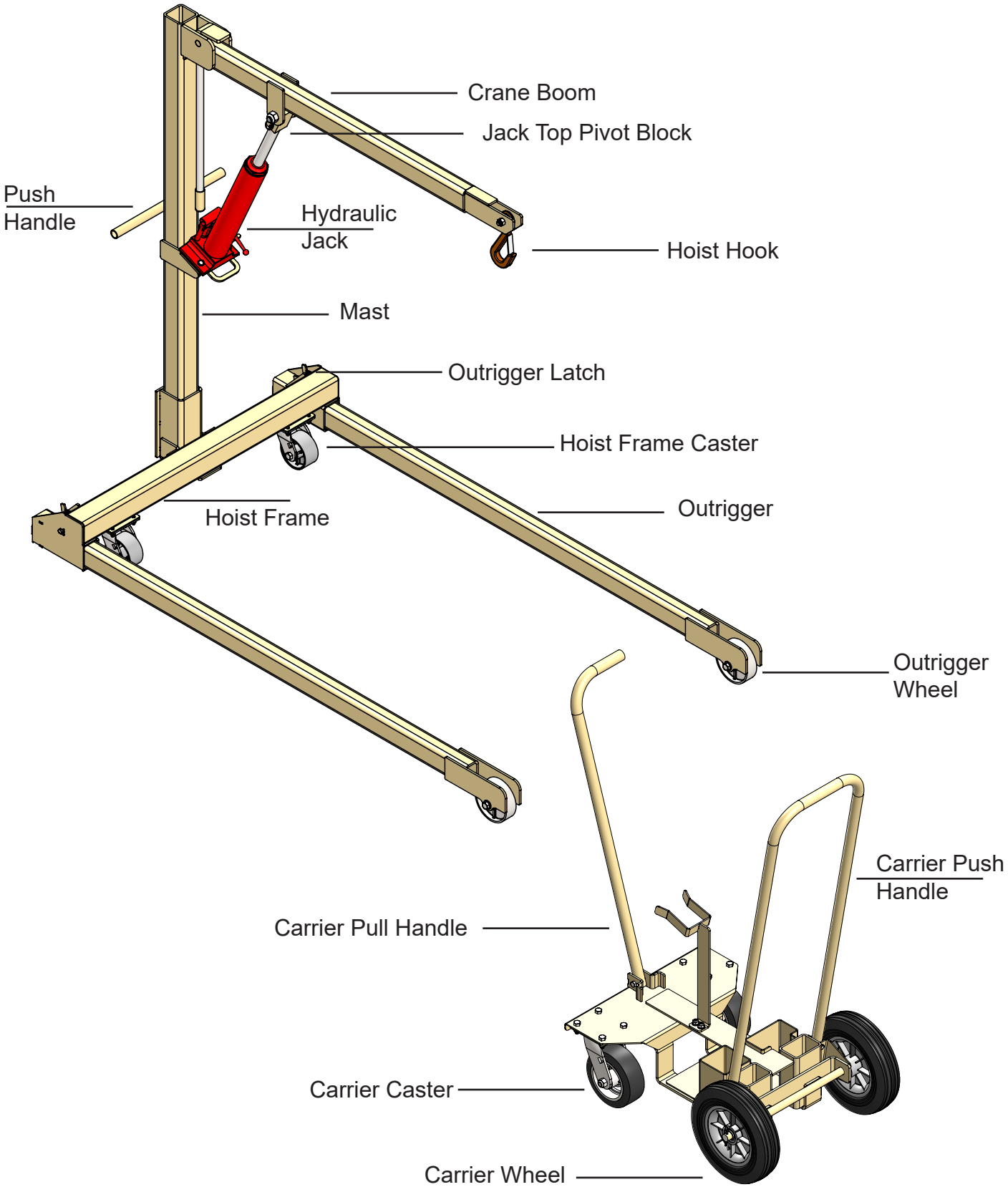


DIMENSIONS AND WEIGHT



Dimensions and Weight are approximate and subject to change.	Loaded Carrier	Unloaded Carrier
Length	37.5” / 953 mm	37.5” / 953 mm
Width	20” / 508 mm	20” / 508 mm
Height	77” / 1956 mm	38” / 965 mm
Weight	339 lb / 153 kg	72 lb / 33 kg

PARTS DESCRIPTIONS



Read and understand the *Operator's Manual*
before operating this equipment.
Death or serious injury can result if this machine is used improperly.

DANGER WARNING

Safety Guidelines

Eye protection must be worn at all times when this machine is in use. Use only ANSI approved safety glasses to help prevent eye injury. Everyday eyeglasses have only impact resistant lenses; they are NOT safety glasses.

Operator must wear appropriate clothing and footwear. Do not wear loose clothing or jewelry that can get tangled or caught in moving parts. Steel toe safety shoes must be worn.

• Maintain the machine in safe operating condition with all guards/latches/hooks in place and secure, all mechanical fasteners tight, all controls in working order and the machine configured for the job application. Be sure all safety decals can be clearly read and understood. Replace damaged or missing decals immediately.

• The EDCO Engine Hoists are designed to lift up to 1500 points on a flat, horizontal firm surface. They are designed to be operated by a single informed operator from a safe position near the piece of equipment that is safe from a dropped load.

• Keep a safe operating distance to other personnel in the area and never leave the machine unattended when a load is being lifted by the engine hoist.

• Avoid unlevel surfaces and any objects protruding from firm surface when manuevering engine hoist and engine hoist carrier with load or without load.

• Never operate this machine while under the influence of drugs, alcohol or when taking medications that impair the senses or reactions, or when excessively tired or under stress.

• Ensure load is completely secure in the hoist hook. Ensure hoist hook latch is always closed when any load is applied. Replace hook if there is any visible damage (deep knicks, broken latch, bent hook).

• Maintain wheels/casters to ensure smooth movement when manuevering the engine hoist.

• Inspect entire engine hoist prior to every use for any visible cracks, bent components and loose hardware. If any of the mentioned is present, do not use the engine hoist until the damage has been remedied.

• Properly maintain the hydraulic jack according to the operating instructions listed on the hydraulic jack. https://www.usjack.com/wp-content/uploads/56064-3-Ton-Bluebird-2021-1.pdf for more info.

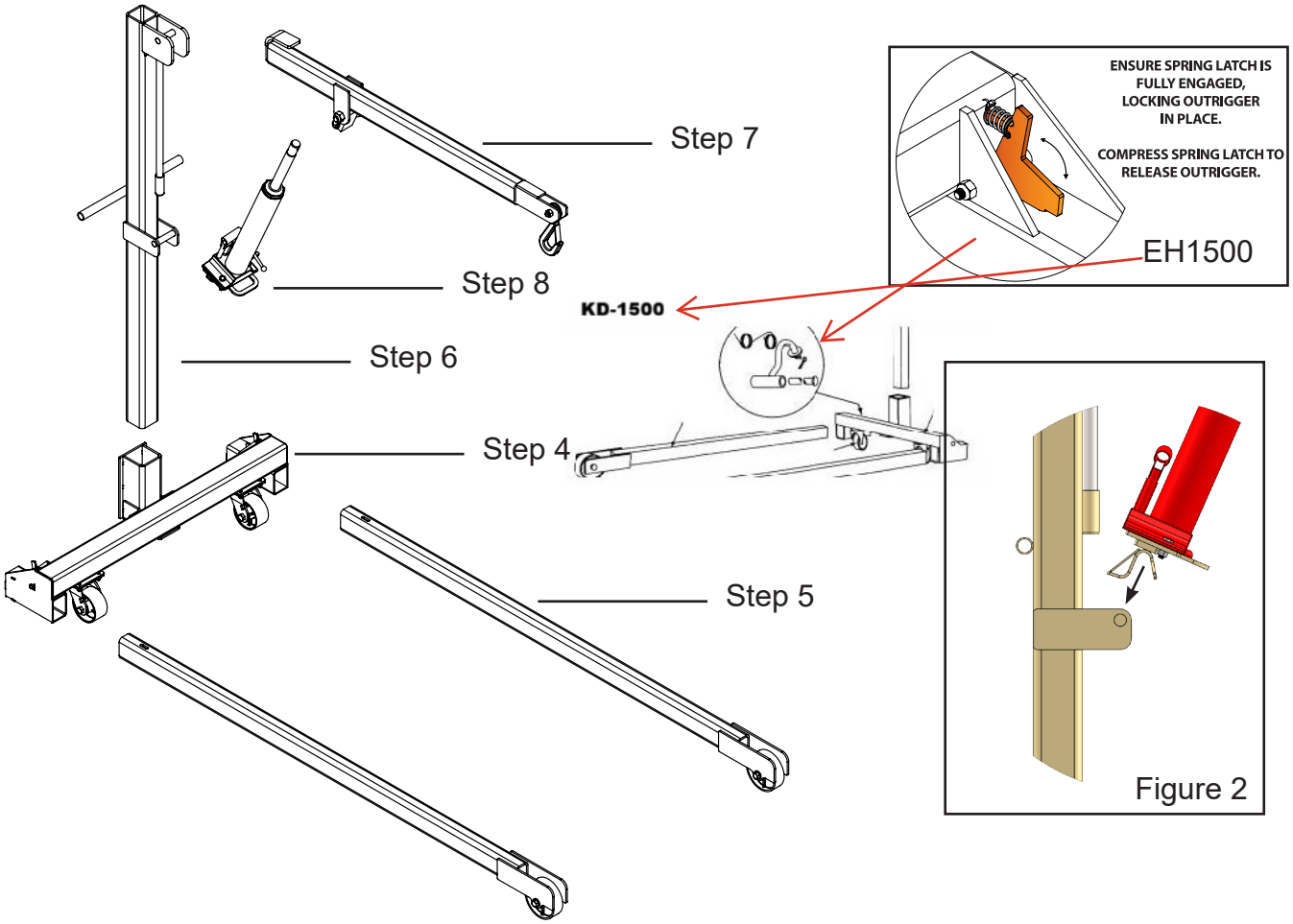
• This is a lifting device ONLY, the load shall be supported immediately by appropriate means.

• Do not overload, overloading can cause dever damage and/or failure of the engine hoist and its components.

INSTRUCTIONS

Unloading Carrier & Assembly

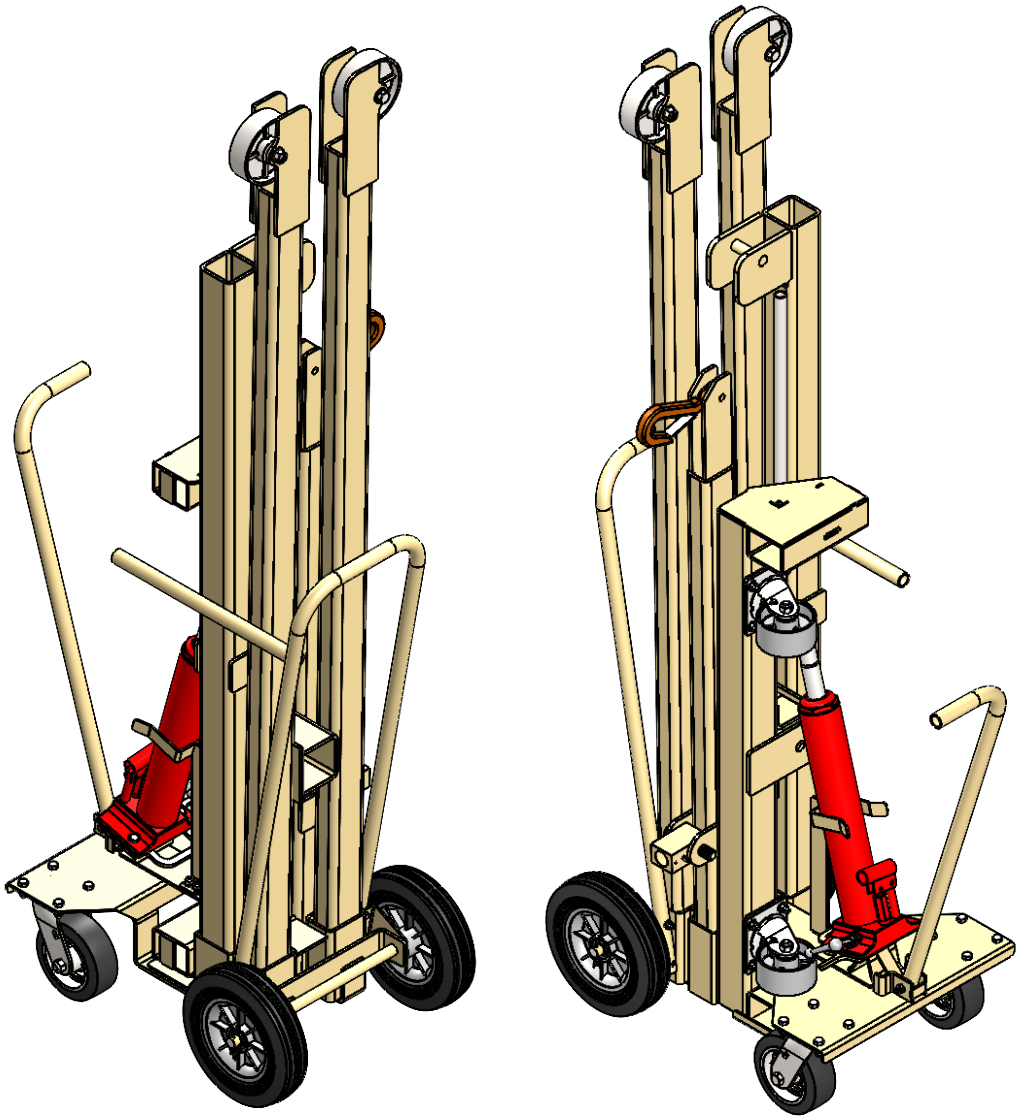
1. Familiarize yourself with the descriptions on page 6 of this manual. Following the sequence below will allow for ease of assembly.
2. Remove crane boom from carrier, set aside.
3. Remove both outriggers from the carrier, set aside.
4. Remove hoist frame from the carrier, set on firm level surface.
5. Place the outriggers removed in step 3, in to the pockets on the hoist frame. There are two orange outrigger latches on the rear of the hoist frame. Both outriggers should not be able to be removed without the release of these latches. (See Figure 1)
6. Remove the mast from the carrier, place in the vertical pocket of the hoist frame, with the handle bar on the opposite side from the outriggers.
7. Place the crane boom removed in step 2, over the bar support at the top of the mast. Rest the crane boom with the hook latch over the bar, on the mast. Ensure crane boom pivot block is hanging down.
8. Remove the hydraulic jack from the carrier, link the hydraulic jack shaft to the crane boom pivot block utilizing the detent pin. Ensure detent pin is fully inserted through the pivot block. Lower hydraulic jack mount over the bar support on the middle part of the mast. The carrying handle on the lower portion of the hydraulic jack is to be facing forward towards the outriggers. (See Figure 2)



INSTRUCTIONS

Loading Carrier & Dis-Assembly

1. Familiarize yourself with the descriptions on page 6 of this manual. Following the sequence below will allow for ease of dis-assembly and loading of the carrier. Orientation is important to note. Follow the directions below as well as the images below.
2. Ensure jack is completely compressed, by releasing the jack lever on the side of the jack. Once compressed, lift the jack out of the bar support on the mast, rest the crane boom on to the mast, then remove the detent pin from the crane boom pivot block. Place hydraulic jack in to the carrier.
3. Remove the crane boom, set aside.
4. Remove the mast, and load in to the carrier.
5. Remove the outriggers from the hoist frame, set aside. Place the hoist frame in to the carrier.
6. Load the outriggers in to the carrier.
7. Load the crane boom, removed in step 3, in to the carrier.



UTILIZING HOIST, OPERATION INSTRUCTIONS

Securing load on Engine Hoist Swivel Hook DANGER

1. Always ensure the load is balanced evenly on the swivel hook, this will prevent slipping of the lifted item once lifted. An uneven load could cause the engine hoist to tip and cause severe bodily injury, possibly death, as well as property damage.
2. Ensure lifting assist items, such as, but not limited to, crane boom hooks, chains, tethers, straps, are in good working condition with NO cuts, tears, frays and are properly rated.
3. Ensure the Swivel Hook latch is completely closed before lifting any item. This will prevent lifted items from coming off the hook while lifting.
4. The Swivel Hook has the ability to rotate 360° which allows for easy manevuring the lifted item once it is lifted.
5. Lift only from areas as specified by the vehicle, equipment manufacturer. Lifting from unapproved areas could cause property damage.

Utilizing Hydarulic Jack to lift and lower

1. To operate valve, open release valve, pump handle several times with provided jack pump handle this will release any airbound condition. Close release valve. Utilizing pump handle begin pumping slowly to ensure the load is safe to lift. Continue lifting to designated height. Then support with proper support tools.
2. To lower load, begin by slowly rotating/opening the release valve. Ensure you operate the release valve slowly to begin the lowering. Opening release valve rapdily, can cause property damage and could cause loss of load.

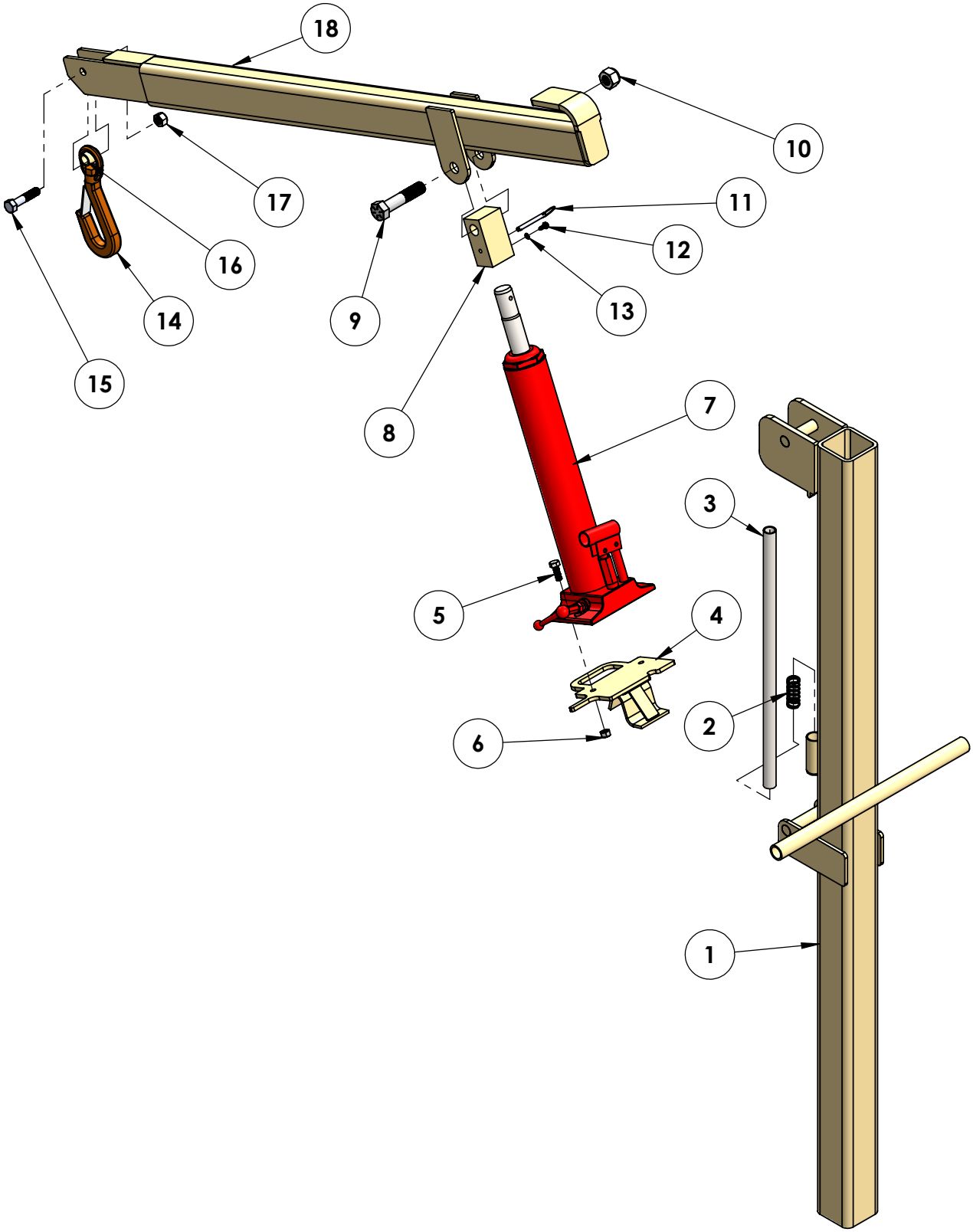
MAINTENANCE INSTRUCTIONS

Maintaning Engine Hoist and components

1. Hydarulic Jack: Refill Hydraulic Jack with recommended Jack Oil. Never use a substitute. Use only HAND JACK OIL, 5W to 10W grade 15 with ram **COMPLETELY** collapsed, fill to the bottom of the filler plug.
2. Hydraulic Jack: When storing Engine Hoist, always compress the ram of the hydraulic jack completely with the release valve closed.
3. Hydarulic Jack: Light machine oil on all moving parts periodically.
4. Engine Hoist: There are 2 casters on the engine hoist, there are 3 grease points on each caster. Grease these bearings weekly.
5. Engine Hoist: There are 2 casters on the engine hoist carrier, there 3 grease points on each of these casters. Grease these bearings weekly.
6. Engine Hoist: Inspect/Replace the engine hoist swivel hook as needed. When visible wear is present or if there are any knicks/cracks: Replace immediately.

Maintenance Notes:

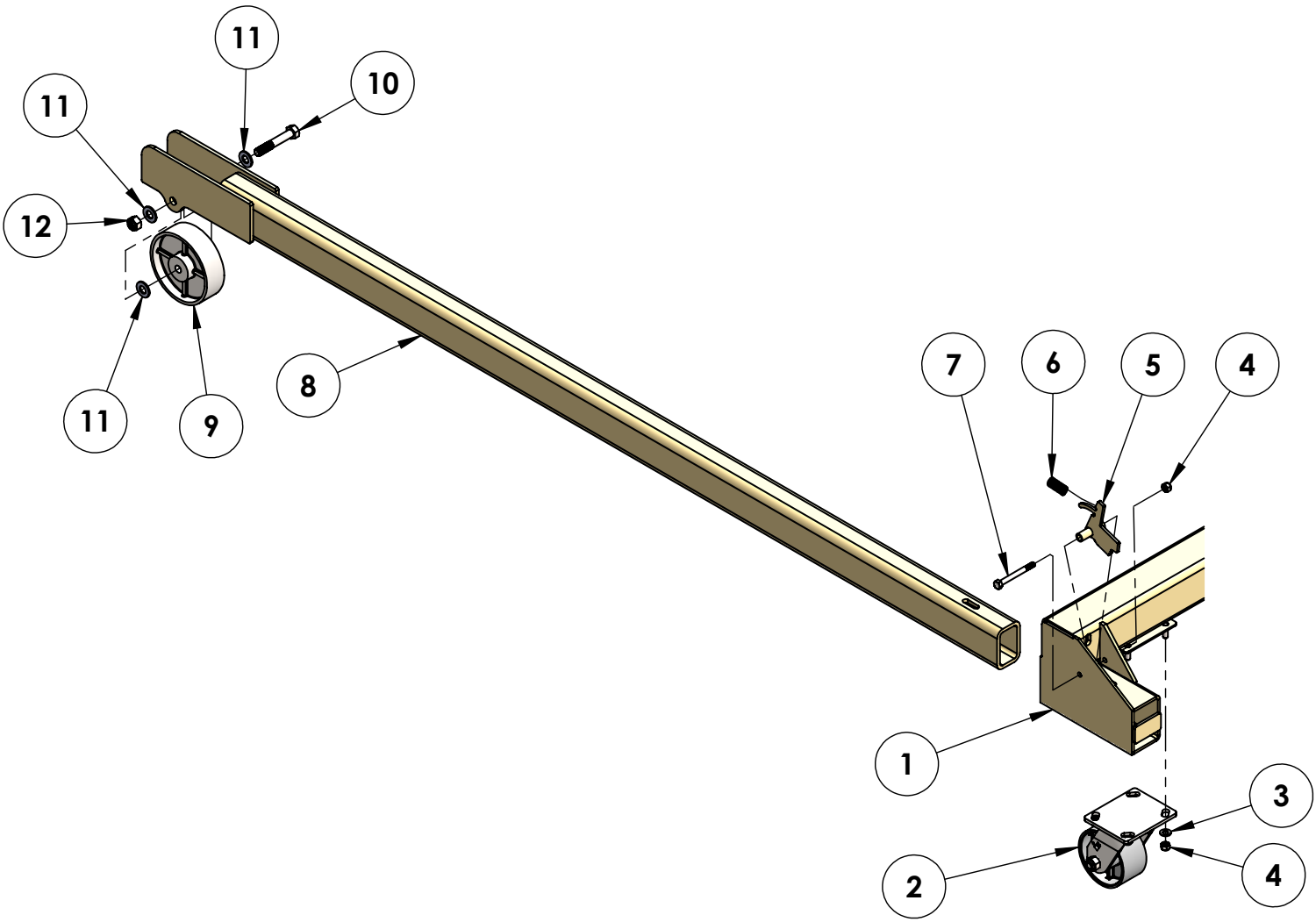
ILLUSTRATION 1: CRANE BOOM & MAST



PARTS LISTING - ILLUSTRATION 1: CRANE BOOM AND MAST

Item #	Part #	Part Description	Qty
1	101241	HOIST MAST WELDMENT	1
2	101261	SPRING, COMP. .845”OD X 2”FL	1
3	101256-1	JACK, TUBE (PROVIDED WITH #7, 101256)	1
4	101244	JACK MOUNT WELDMENT	1
5	10806	SCREW, CAP 5/16-18 X 1	2
6	10151	NUT, HEX NYLON LOCK 5/16-18 ZINC	2
7	101256	JACK, 3 TON HYDRAULIC	1
8	101245	JACK TOP PIVOT BLOCK	1
9	101257	SCREW, CAP 3/4-16 X 3-1/2 GR8	1
10	101258	NUT, HEX NYLON 3/4-16 ZINC	1
11	101260	PIN, DETENT RING 1/4 X 2 EL W/ LANYARD	1
12	10877	SCREW, CAP STSHW 10-24 X 1/2	1
13	10831	WASHER, LOCK, INT. TOOTH #10	1
14	101251	HOOK, HOIST 1 TON	1
15	101259	SCREW, CAP 1/2-13 X 2-1/4 GR8	1
16	101264	CRANE BOOM HOOK TUBE	1
17	10155	NUT, HEX NYLON LOCK 1/2-13 ZINC	1
18	101242	CRANE BOOM WELDMENT, 1500	1

ILLUSTRATION 2: OUTRIGGER AND HOIST FRAME



PARTS LISTING - ILLUSTRATION 2: OUTRIGGER AND HOIST FRAME

Item #	Part #	Part Description	Qty
1	101238	HOIST FRAME WELDMENT	1
2	101253	WHEEL, CASTER 4X2	2
3	10213	WASHER, FLAT 5/16 SAE ZINC	8
4	10151	NUT, HEX NYLON LOCK 5/16-18 ZINC	10
5	101239	OUTRIGGER LATCH WELDMENT	2
6	101262	SPRING, COMP. .60”OD X 1.25”FL	2
7	11734	SCREW, CAP 5/16-18 X 3	2
8	101240	OUTRIGGER WELDMENT	2
9	101254	WHEEL, CAST IRON, 5X1.5	2
10	10324	SCREW, CAP 1/2-13 X 3-1/2	2
11	10312	WASHER, FLAT 1/2 SAE ZINC	8
12	10155	NUT, HEX NYLON LOCK 1/2-13 ZINC	2

STOP

BEFORE USING THIS PRODUCT

Have You Used EDCO's Online Customer Support??

Scan This QRC or Visit
www.edcoinc.com/customer-support

READ: **EDCO Owner's Manuals and Parts Listings** share basic information and parts of each product. Download and print them whenever needed.

WATCH: **EDCO Product Training Videos** show how to use products, install tooling, and perform basic maintenance.

EDCO SCAN FOR TRAINING MATERIAL

Example Only

FIND: Somewhere on this product is an **EDCO QRC Training Decal**. Scanning this code provides owner's information, videos, and other training content anywhere/anytime on your mobile device.

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CONCRETE KNOWLEDGE

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Also see Operator's Safety & Limited Warranty Manual

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