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Operating & Instructions Manual
For
Safety Hoist HD-400 and HD-400H Platform Hoist

IMPORTANT

Retain this manual for instructions on assembly and operation of this hoist.

Read this entire manual carefully before attempting to assemble or operate this hoist. Failure to comply with these instructions may cause the hoist to malfunction and may result in injury to persons and/or property.

I. SAFETY INSTRUCTIONS

Note: the safety instructions and warnings in this section and throughout this manual must be read carefully before assembling and operating the Hoist. These safety instructions and warnings are not substitutes for routine accident prevention measures which must also be observed to avoid potential risks and hazards. Failure to obey these safety warnings may result in injury to you or others, or damage to the Hoist.

A. SAFE ASSEMBLY

1. **Transporting your Hoist:** To avoid damage, handle Hoist component parts with care when transporting.
2. **UNPACKING YOUR HOIST:** When unpacking Hoist component parts, inspect carefully for any damage that may have occurred during transport. **DO NOT ASSEMBLE OR USE THE HOIST IF ANY PART IS DAMAGED!!** Return the damaged part place of purchase for replacement.
3. **SAFETY LABELS:** Observe all labels and instructions attached to various parts of the Hoist.
4. **PROPER PARTS:** For your safety, use only parts, attachments and accessories approved by the Manufacturer for use with this Hoist.
5. **SAFETY CHECK:** Check assembled parts (splice plates, bolts, engine mounting, belts, pulleys, hoist cable, etc.) for proper tightness and fit before using the Hoist, and during frequent periods of use, be certain the equipment is in safe working condition.
6. **BRACING YOUR HOIST:** Never place the Hoist on a slippery, uneven or unstable surface. Make sure the Hoist is properly braced against a building or solid abutment at the correct angle as described herein.
7. **HOUSE-KEEPING:** Keep the area around the base of the Hoist clear of debris to avoid slipping, tripping or falling against the Hoist.
8. **FUELING:** Handle fuel with care. It is extremely flammable and highly explosive under certain conditions.
 - a. Never smoke or allow open flames or sparks to be present in the vicinity of the when the fuel tank is being filled.
 - b. Use an approved fuel container.
 - c. Never add fuel to a hot or running engine.
 - d. Replace fuel caps of the supply container and the engine fuel tank and wipe up any spilled fuel before starting the engine.
9. ***HAZARDS: DO NOT USE OR PLACE THIS METAL HOIST IN ANY AREA WHERE IT COULD COME IN CONTACT WITH ELECTRICAL WIRING CIRCUITS OR OTHER HAZARDS.***

B. SAFE OPERATION

1. Proper Instructions: DO NOT ALLOW ANYONE TO OPERATE THE HOIST WHO HAS NOT BEEN PROPERLY AND THOROUGHLY TRAINED IN ITS OPERATION AND USE.
2. ENCLOSED AREAS: Never operate the engine indoors. Exhaust fumes can be hazardous in enclosed areas.
3. **WARNING!!!! USE THE HOIST TO LIFT MATERIALS ONLY!!!! THE HOIST SHOULD NEVER BE USED TO TRANSPORT A PERSON FROM ONE ELEVATION TO ANOTHER!!!!**
4. MAXIMUM CAPACITY: The MAXIMUM CAPACITY OF THE HOIST IS **400 POUNDS!** When using double line **OR 200 POUNDS!** When using single line **Do not over load.**
5. **WARNING: KEEP HANDS, FEET, OTHER BODY PARTS AND CLOTHING AWAY FROM THE TRACK AND MOVING OR ROTATING PARTS OF THE HOIST WHEN STARTING THE ENGINE OR OPERATING THE HOIST.**
6. **CAUTION:** Do not allow any one to work or walk around or under the Hoist when in operation.
7. MOLTEN SUBSTANCES: Do not use the Hoist to lift buckets of hot asphalt or any other hot, molten substance.
8. SUPERVISION: Stop the engine when you leave the vicinity of the Hoist.

C. DISASSEMBLY AND STORAGE:

1. After stopping the engine, wait for all moving parts to stop and for the engine to **cool** before disassembling.
2. Disconnect the Spark Plug Wire from the Spark Plug.
3. STORAGE OF THE ENGINE: Never store the engine in an enclosed area before cooling.
4. STORAGE OF THE POWER UNIT: Never store the power unit in an enclosed area with fuel in the tank or where flames or sparks may be present. Store the Power Unit in an upright position to prevent gas and oil from leaking.
5. STORAGE OF TRACK SECTIONS: Hang the track sections from a side wall to prevent damage.

II. SPECIFICATIONS:

- ** 3.5 HP Gasoline Engine (B/S Briggs&Stratton)
- ** 400 LB. Maximum Capacity
- ** 150 ft. 5/32" Steel/Galvanized Cable
- ** 100% Ball Bearing Winch
- ** Steel Carriage w/ Nylon Rollers
- ** 28 ft. Aluminum Track Sections (1-16 ft w/ feet, 1-8ft and 1-4ft.)

III. HOIST ASSEMBLY AND OPERATION

A. HOW TO ASSEMBLE YOUR HOIST PROPERLY "ON THE GROUND WORK"

1. Notice that the Rungs on the Track Sections are closer to one surface than the other.
2. After determining how many Track Sections are required to reach the proper height for the job, lay the Track Sections on the ground with the Rungs Closer to the ground.
3. Install the Splice Plates on the **INSIDE** of the Track Sections making sure to use the proper fasteners, securely tightened.
4. Install the Carriage on the assembled Track Sections making sure the Large Rollers ride on **TOP**, and the Small Rolls ride **UNDER** the top rail of the Track Sections.
5. The Carriage should roll freely the full length of the assembled Track Sections. If the Carriage binds, call your dealer or the factory immediately. **DO NOT PLACE THE HOIST IN OPERATION IF THE CARRIAGE BINDS UP!!**
6. Install the Peak on the top Section using the proper fasteners.
7. Raise the assembled Track Sections to the roof with the base the proper distance from the base of the building. (Refer to the chart in this manual) Make sure the Track Section Shoes are positioned correctly for stability.
8. Tie the track to the roof securely with a rope. Tie the rope to a rung or the peak. Do not tie to the rail because the rope will interfere with the travel of the platform/carriage.

B. INSTALLING THE POWER UNIT

1. Wheel the Power Unit to the back-side of the Track Sections, lift it and "hang" the unit on the Fifth rung of the Track Section between the collars. Pull the bottom of the Power Unit in until the frame is against the Track Rungs. Insert the Locking Pin through the holes in the bottom of the unit, locking the Frame in place against the Track Rungs. Make sure the locking pin and the cable it is attached to do not interfere with the movement of the carriage.
2. Install the Operating Handle over the Actuator (pivoting) Bar and secure with the Hitch Pin. (Make sure the handle is properly fastened so it will not fall off during operation)

C. STRINGING THE CABLE

1. With a man on the roof, and a rope attached to the Cable, release the Brake by pushing down on the Operating Handle. The man on the roof can now pull the Cable up the 'under-side' of the Track Sections and 'reeve' the Cable through the Peak Pulley, and drop the line to the ground on the front side of the Track Sections.
2. 'Reeve' the Cable through the Pulley on the Carriage and Pull the Cable back to the top of the Track Sections and affix the Cable End to the Catch Hook on the Peak. Note: Raising 400 lb. Requires this 'Double-Line Pull'.
3. During the Stringing of the Cable, take care that the Cable unwinds from the Winch Drum in an orderly manner. The Hoist should not be operated with the Cable wound in a Cris-Cross fashion.

D. OPERATION OF YOUR SAFETY HOIST

PLEASE NOTE: Your Safety Hoist features a SINGLE OPERATING LEVER which when lifted, tightens the drive belt raising the Carriage; releasing the Operating Lever causes the Brake to engage and hold the Carriage in place. When the Lever is pressed down, it releases the Brake allowing gravity to bring the Carriage down.

WARNING: The Brake on your SAFETY HOIST is self-energizing, self-releasing and self-adjusting. The Brake is controlled by a fulcrum which pivots, with a tensioning spring at one end, and a release cable at the opposite end. (when the Control Lever is in the neutral position, the release cable should have at least 1" of slack, side to side) THE BRAKE IS ADJUSTED AT THE FACTORY AND NO ATTEMPT SHOULD BE MADE TO RE-ADJUST IT WITHOUT CONSULTING THE FACTORY.

1. Load the Carriage taking care that the load is balanced and secured if necessary.
2. Start the engine, and with the Carriage properly loaded, raise the Carriage 2 or 3 feet by lifting the Operating Lever. Then release the Lever. **THE CARRIAGE SHOULD STOP IMMEDIATELY AND REMAIN THERE WITH NO SLIPPAGE.** (If the Carriage slips downward, call your Dealer or the Factory Immediately) Repeat this procedure several times to ensure the Brake is functioning properly. **This test should be run each time you put your SAFETY HOIST in operation to make sure it has not been damaged or knocked out of adjustment during transport or set-up.**
3. Observing the above steps, your SAFETY HOIST is now ready for operation. By lifting the CONTROL LEVER, raise the load at a safe speed, observing the Carriage at all times.
4. To lower the Platform/Carriage, after the materials have been unloaded, push gently down on the CONTROL LEVER once again taking care to observe the Platform/Carriage and control the speed of descent by varying the pressure on the CONTROL LEVER.

NOTE: ALWAYS OBSERVE THE OPERATION OF THE CARRIAGE TO ENSURE THAT THE CABLE IS WINDING CORRECTLY ON THE WINCH DRUM. DO NOT ALLOW THE CABLE TO WIND IN A CRIS-CROSS PATTERN. The Cable winds in an orderly manner when it coils cable next to cable on the same line.

ALWAYS REPLACE THE CABLE IF BROKEN STRANDS OR SHARP KINKS ARE EVIDENT.

UNDER NO CIRCUMSTANCES STAND IN FRONT OF THE HOIST WHILE IN OPERATION, OR WHEN A LOAD IS IN THE AIR!!!!!!!

TRACK LENGTH/BUILDING HEIGHT TABLE

<u>Building Height</u>	<u>Length of Track</u>	<u>Distance from Bldg.</u>
12'	16'	3'
16'	20'	4'
20'	24'	5'
24'	28'	6'

Warning-All nuts and bolts must be secured tightly. If all nuts and bolts are not in place and tightened securely, track failure will occur under load.

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