



Astro 85 Series Hoist

! WARNING: Before you operate this hoist you must read and understand the operator’s manual and follow its instructions. All hoists MUST have a copy of this manual, if one is not present with this hoist, contact your Power Climber dealer. Do not operate this hoist unless you are properly trained, are in good health, and are authorized to do so. Failure to comply with these instructions could result in serious injury or death.

****If you do not have a copy of the 10-58 Operator’s Manual for this hoist, please contact your Power Climber dealer:**

Local Power Climber Dealer _____

Phone: _____

These instructions are not all inclusive. It is impossible for Power Climber to know, review, and instruct on every possible way this equipment may be used, and on all possible hazardous situations. Any deviation from the instructions in this operator’s manual may jeopardize the safety of yourself and others, and/or result in damage to the equipment.

! WARNING: If the hoist is suspended in the air and the motor runs but the wire rope does not move through the hoist, STOP the hoist immediately! Damaged wire rope may be jammed inside the hoist. Any attempt to move the hoist up or down could result in damage to the equipment and/or injury or death to you or others.

DAILY TEST REQUIREMENTS

The following tests must be performed at the start of each work shift. If the hoist fails any of them, **DO NOT USE IT until it is repaired.**

OVERSPEED ROPE GRAB While powering the ASTROHOIST UP and DOWN approximately 3 feet, look through the window of the hoist to see that the parts are moving freely. The flywheel rotation must be checked under load and must turn smoothly.

Test the overspeed safety by pulling the last 18 inches of wire rope out fast enough to activate the safety. To reset the overspeed, turn reset knob counterclockwise.

EMERGENCY STOP BRAKE

Push the UP button and raise the platform approximately three feet. While pushing the DOWN button, push the red emergency stop button. The hoist should quickly stop. The UP and DOWN buttons should not work now. Now release the "no power" emergency descent lever to make sure that the overspeed safety is locked onto the suspension rope.

TO RESET the emergency stop brake, move the hoist upwards a few inches by pushing the bypass button while pushing the UP button, or by using the crank handle. (See page 11.) Replace crank handle properly before operating the hoist or the “no power” descent lever.

“NO POWER” EMERGENCY DESCENT

Raise hoist UP approximately 3 feet. Disconnect power supply. During this test and before actually using the emergency descent, CAREFULLY release the “NO POWER” emergency descent lever. Hoist should descend at a slow, controlled speed. Any overspeed indicates that the emergency descent system is not working properly and should not be used. When using emergency descent system, be sure crank handle is in its stored position. Failure to do so could result in bodily injury to yourself and/or others, and/or property damage.

SLACK ROPE DEVICE

Lower platform to ground level. Slacken the main suspension rope. Pull on second suspension rope to ensure that the grab jaws are locked onto it. Jaws should release when main suspension rope becomes tight again.

TOP LIMIT SWITCH (Use is optional).

Run hoist in UP DIRECTION AND DEPRESS TOP LIMIT SWITCH. Hoist should stop running.

CRANK HANDLE

Be sure the crank handle is properly in place or the hoist will not run in either direction. Never use the emergency descent feature if the crank handle is in cranking position. Always disconnect the power supply before using the crank handle. Failure to follow these instructions may result in bodily injury.

IF THE HOIST IS SUSPENDED IN THE AIR, PUSH THE EMERGENCY STOP BUTTON AND WAIT TO BE RESCUED. DO NOT USE HOIST UNTIL SITUATION IS CORRECTED.

WARNING

BEFORE operating this hoist you must understand and follow the instruction in this manual. You must be properly trained, physically fit, and authorized to operate the hoist.

Failure to comply with these instructions could result in serious injury or death.



DAILY INSPECTION

Inspect the wire rope, power supply, rigging, platform, and hoist to make sure they are in proper working order and are not damaged. Bolts, nuts, and clamps must be tight and well secured.

Make sure the stirrup frame is secured with SAE Grade 5 hardware and all nuts and cotter pins are properly installed.

NOTE: When using the hoist in a dirty environment that contains epoxy, paint, cement, sand blast residue, or corrosive material, inspect the secondary overspeed brake several times a day. Protective covers are recommended for use in such environments. Contact your local supplier.

SAFETY NOTES

DO NOT operate hoist if you hear any unusual noises.

DO NOT operate hoist if adjustments or repairs seem necessary.

DO NOT operate hoist if any warning, operating, or capacity instructions are unclear or damaged. Report any Problems to your supervisor and notify the next operator when changing shifts.

NEVER operate an electric hoist or any electrical equipment in an explosive atmosphere. Explosive atmospheres exist around refineries, chemical plants, grain elevators, coal mines or coal handling equipment. This is not a comprehensive list. Consult an expert (e.g. supervisor, safety director, competent person) if you are in doubt about the safety of your immediate surroundings.

Daily Inspection was done by _____ (signature)
_____ (Print name)

Date of Inspection _____ **Time of Inspection** _____

Hoist Serial Number or Unit Number _____

**Some terms such as "overspeed safety", "overspeed brake" or "overspeed rope grab" may indicate the same part and are similar terms. If you do not understand any terms contained in this document, make sure to contact your local Power Climber dealer for assistance. 1-800-560-2546.*