PowerClimber®

OPERATOR'S MANUAL

PC3-1000 Relevation

Relevation

MODEL:
PC3-1000-RE

Manufactured by: Safeworks, LLC | 365 Upland Drive, Seattle, WA 98188 | Phone: (800) 560-2546
Email: ProductSupport@PowerClimber.com | Website: PowerClimber.com

WARNING

- **All persons** operating this equipment must read and completely understand this manual.
- **All persons** must be thoroughly trained in the use of this equipment, its operational and safety features, and they must also be capable of carrying out the daily inspections.
- Only authorized persons shall operate this equipment.
- Any operation in violation of these instructions is at the **operator's own risk** and **may result in serious injuries.**
- Keep this manual with the hoist at all times.
- Use only spare parts and recommended steel wire rope from Power Climber®.
- It is the responsibility of the user of this hoist to determine that this hoist is suitable to be used in conjunction with any other equipment. The user must also determine that this hoist and other components used will be in strict conformity with the provisions of National, Provincial, and local ordinances and regulations.
- The lithium-ion battery pack contains flammable and toxic materials. **Mishandling or exposing the battery to extreme conditions may result in serious injuries.**

Symbol Legend

The following symbols found in this manual categorize important tasks related to operation and maintenance of this hoist:

▲ = Inspect ● = Verify ■ = Perform process

Table of Contents

1. ABOUT THIS MANUAL

Before using the Power Climber® PC3-1000 Relevation (PC3-1000-RE) hoist, learn the procedures described in this manual. Any operation in violation of these instructions may result in bodily injury or death.

This manual is included with each Power Climber® PC3-1000-RE hoist. Additional copies are available from your hoist supplier. Keep a current copy of this manual with the hoist at all times. It is the duty of the employer to provide each operator with a copy of this manual. Power Climber® reserves the right to make changes or modifications to its hoists. Users of this equipment must request current operating information prior to using this equipment. Call your local hoist supplier.

The design and manufacturing of the Power Climber® PC3-1000-RE hoist complies with UL 1323 standards. The use of this Power Climber® hoist within the United States is governed by OSHA CFR 29. Consult OSHA CFR 1926 for temporary applications and OSHA CFR 29 1910 for permanent applications.

1.1 Symbols Used in this Manual

This manual includes symbols that denote information that is important for hazard avoidance. Read carefully and follow all instructions when you see these symbols.

Symbol	Term	Meaning
	STOP	Stop action and follow instructions before continuing.
	WARNING	Warns against possible immediate death or serious injury.
	CAUTION	Warns against possible injury.
	ELECTRICAL HAZARD	Warns against possible electrical shock hazard.
	READ	Must read this before performing any action that follows.
	NOTE/TIP	Remember and take the following into account.

2. SAFETY INSTRUCTIONS

CAUTION:

Every year, workers on suspended scaffolds are injured, become disabled, or are killed because of carelessness or because they did not understand how to correctly operate the equipment.* DO NOT *become one of them. Know how to use this equipment and prevent accidents. NEVER operate equipment that you* DO NOT *understand. You may cause accidents, resulting in injury or death to you or people around you.

This instruction manual is not all inclusive. It is impossible to anticipate every possible way this equipment may be used, and all possible hazardous situations. It is very important that you determine for yourself whether the equipment is safe. You must understand the operating characteristics of this hoist. You must understand how the hoist will operate in your application. You must be certain not to put yourself or others in danger, or cause damage to property or other persons. Call your hoist supplier if you have any questions concerning this equipment.

1. Read and understand this manual **BEFORE** using this equipment.
2. Setup and use must comply with Power Climber® instructions and local codes.
3. Use the Troubleshooting Guide in this manual to solve problems that may develop with the hoist. Repairs must only be made by people trained and authorized to do so. **NEVER** maintain or repair the equipment while the unit is suspended (above ground level).

Operating the Hoist

1. Be careful when operating the hoist in freezing temperatures. Water or moisture may enter the hoist's overspeed brake or traction assembly. See "Cautions for Cold Weather Operation" on Page 27.
2. Be careful when operating the hoist in high winds. Consider stopping work or adding stabilization at wind speeds of 40 kph (25 mph) or more when working on a 2-line suspended platform. When working on a single line platform, stabilization should be used in winds above 32 kph (20 mph). Avoid carrying large panels of material which can act like a sail in high winds.
3. **DO NOT** remove any parts from the hoist without replacing them. **DO NOT** change or substitute any approved hoist parts for parts that **DO NOT** meet manufacturer's specifications. **DO NOT** modify this hoist without prior approval from Power Climber®. Modifications can put you in danger if not done correctly. Making modifications can also void any manufacturer's warranty and make you liable for any damage.
4. Maintain clearances and make sure no obstructions interfere with vertical travel.
5. Rotate the operating switch by hand only. **DO NOT** use foreign objects to operate the hoist
6. When not in use, store hoist and stage to protect from unauthorized use. Cover the hoist if possible. Always unplug power cord when not in use and equipment is left unattended.
7. Only authorized and properly trained personnel shall operate this hoist. Each operator must determine his own fitness to operate this hoist. Consult your doctor if you are in doubt. Each operator must be free of the influence of alcohol or drugs.

Suspended Scaffolds

1. **WARNING! DO NOT** use suspended scaffolds unless:
   a. You are wearing a personal fall arrest system that meets or exceeds your application requirements.
   b. You have personally made sure that:
      i. the roof support system is complete, properly assembled, counterweighted (or otherwise anchored), tied off, and not overloaded; and,
      ii. hoists and platforms are not overloaded.
   c. The wire rope is free of defects and is the size and type specified for the hoist;
   d. Guardrails and toe boards are properly installed;
   e. The primary suspension wire rope is vertical.
2. Use approved personnel harnesses, lanyards, rope grabs, and independent lifelines at all times. Attach the lifelines to a structural member of the building or structure, never to part of the rigging unless specifically designed for this purpose.
3. Avoid electrical power lines. Ensure the platform cannot swing or be blown within 3 m (10 feet) of a power line. **NEVER**, under any circumstances, rig a platform above power lines.
4. Comply with all local, provincial and federal safety codes and equipment instructions.
5. If you hear any strange noises or if the hoist does not appear to work normally, stop using it immediately. **DO NOT** continue to use the equipment until it has been repaired.
6. **DO NOT** allow anyone under suspended equipment. If necessary, provide protection below the suspended equipment to prevent injury to people from falling objects. Use lanyards to secure tools and materials from falling on personnel below.
7. **DO NOT** reset the overspeed brake until you have first read and completely understood the Troubleshooting Guidelines in this manual.

Wire Rope

1. Inspect the wire rope before rigging. Handle, inspect, and maintain wire rope carefully during and after each job.
2. **DO NOT** use visibly worn, kinked, bird-caged, undersized, or damaged wire rope. Protect wire rope from sharp or abrasive edges of building. **DO NOT** use wire rope that has been exposed to fire, excessive wear, corrosive atmosphere, chemicals, passage of electric current, or temperatures above 200° F (94° C).

Welding/Electrical Cautions

1. When welding from a suspended scaffold, provide proper electrical grounding for the hoist.
2. Ensure platform is grounded to the structure.
3. Insulate wire rope 1.2 m (4 feet) above and below the platform.
4. Insulate wire rope at suspension point and ensure that the wire rope cannot come in contact with the structure at any point along its entire length, including the tail line.
5. Cover the hoist and battery with an insulating material.
6. Avoid power lines. Make sure the platform or hand tools cannot swing or be blown within a minimum of 3 m (10 feet) of a power line. Check your local codes for minimum distances. Never, under any circumstances, rig a platform above electrical power lines.

Corrosive/Explosive Environments

1. Never operate an electric hoist in an explosive atmosphere such as a refinery, chemical plant, grain elevator, distilleries, ship or silo interiors, mines, around coal handling equipment, or around explosive organic vapors or dust.
2. Never use hoists and aluminum platforms around caustic materials, acids, or acid fumes. Use hoist covers when corrosive materials are present.

2.1 General Hazard Warnings

CAUTION:

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 damage equipment or cause injury or death.

There are many hazards when working on a suspended scaffold. The following is a list of common hazards. This list is not complete! It is provided to increase safety awareness on the job site.

2.2 Mechanical Hazards

- ► Crushing between the platform and the building or structure.
- ► Cutting or severing between moving machine parts.
- ► Loss of rigging stability because of one or more of the following:
  - ■ Insufficient counterweight or counterweights not properly fixed;
  - ■ Inadequate mechanical strength;
  - ■ Increase in vertical load on suspension wire because the platform encounters an obstacle, the platform overloads, or the suspension wire rope breaks;
  - ■ Platform catches on overhang when going up.
- ► Falling
  - ■ from the platform when working;
  - ■ by using a wire rope that is too short;
  - ■ if the platform is not strong enough for the weight and breaks;
  - ■ if wire rope or platform interconnections fail;
  - ■ rigging failure can cause falling.
- ► Idling due to loss of traction.
- ► Jamming due to damaged wire rope.

2.3 Electrical Hazards

- ► Failure of the electrical supply may delay travel of the platform.
- ► Control system failure can cause unwanted/unexpected movement of the platform.
- ► All electrical connections must be locked and supported to midrail with velcro strap.
- ► Make sure the electrical cord (if required) and wire rope are long enough to allow full travel of the suspended equipment.

2.4 Environmental Hazards

- ► Consider and prepare for the effects of climate: heat/cold/ice/wind.
- ► Sandblasting and acid wash procedures may introduce special concerns. They may adversely affect the immediate health of an operator and may pose serious risks to the hoist and other equipment being used.

2.5 Wire Rope Warnings

- ► Use protective gloves to handle the steel wire ropes.
- ► Use only Power Climber® approved steel wire rope.
- ► Steel wires ropes must be replaced under any of the following conditions:
  - ■ Six randomly distributed broken wires in one rope lay or three broken wires in one strand in one rope lay, where a rope lay is the length along the rope in which one strand makes a complete revolution around the rope.
  - ■ Significant corrosion;
  - ■ Damage due to heat or electric arc;
  - ■ Reduction of the nominal diameter by more than 5%;
  - ■ Kinking (see ① below), bird-caging (see ② below), crushing (see ③ below) or any other distortion of the wire rope structure.

Figure: 2.5.1

3. BATTERY

Battery Information	
Cycle Life	Minimum 800 cycles (a cycle is from 0% to 100%)
Operating Temperature	Charge: 0° to 40°C (32° to 104° F) Discharge: -10° to 40°C (14° to 104° F)
Capacity	40.5 Amp hours
Max Charge Voltage	54 V
Discharge Cut-off Voltage	40 V
IP rating	IP64
Certifications	UN 38.3 UL 1642 (Cell level) UL 2271 (Pack level)

3.1 Battery Warnings

The lithium-ion battery pack is potentially volatile if mishandled and therefore must be treated properly. The battery pack must be protected from the following:

Heat

- Keep the battery from temperatures above 80° C (176° F).
- Keep the battery pack away from open flame, and other heat sources. Excessive heat could cause smoke, fire, or the batteries to explode.

Water

- **DO NOT** immerse the battery pack in any water or other liquids. Exposure could lead to a short circuit as well as cause smoke, fire, or the batteries to explode.
- In the event that electrolytes from the battery leak and contact skin or eyes, flush with fresh water and seek medical attention immediately.

Impact / Mishandling

- **DO NOT** crush, dent, puncture, disassemble, incinerate, solder, or expose the batteries to flames and other heat sources.
- Always set the battery pack down gently. **DO NOT** drop the battery pack during transport or set objects on top of it.
- **DO NOT** use the battery pack as a stool, seat, weight or for any other purpose than as designed.

3.2 Battery Charging

CAUTION:

The battery charger is only suitable for the 48 VDC lithium-ion battery pack of the hoist and must not be used for other purposes.

The battery must be charged indoors to protect charger reduce the risk of moisture/debris getting into the charging port.

The battery must be turned off before connecting or disconnecting the charger or hoist to reduce the chance of electrical arcing between connectors.

DO NOT ***charge the battery near high temperatures. The battery's protection circuit may activate if temperatures are too high and prevent charging.***

1. Connect the battery charger to a 110V wall outlet. **DO NOT** connect the battery pack directly into the 110V outlet. If an extension cord is required, ensure it is rated for a minimum of 15A.
2. If not already done, disconnect the battery from the hoist and bring to the charger location.
3. Remove the charging plug from the battery and connect the cable from the charger to the battery.
4. The top POWER light will display red when plugged into 110V source.
5. The bottom CHARGE light has two colors:
   a. When RED, the light indicates that the battery is charging.
   b. When GREEN, the light indicates that the battery is fully charged or disconnected.
6. Check the voltage meter on the battery pack to ensure battery is fully charged. A completely charged battery will read 54V (or 100%) on the meter.
7. Remove the battery pack from the charger and reinstall the charging port plug.

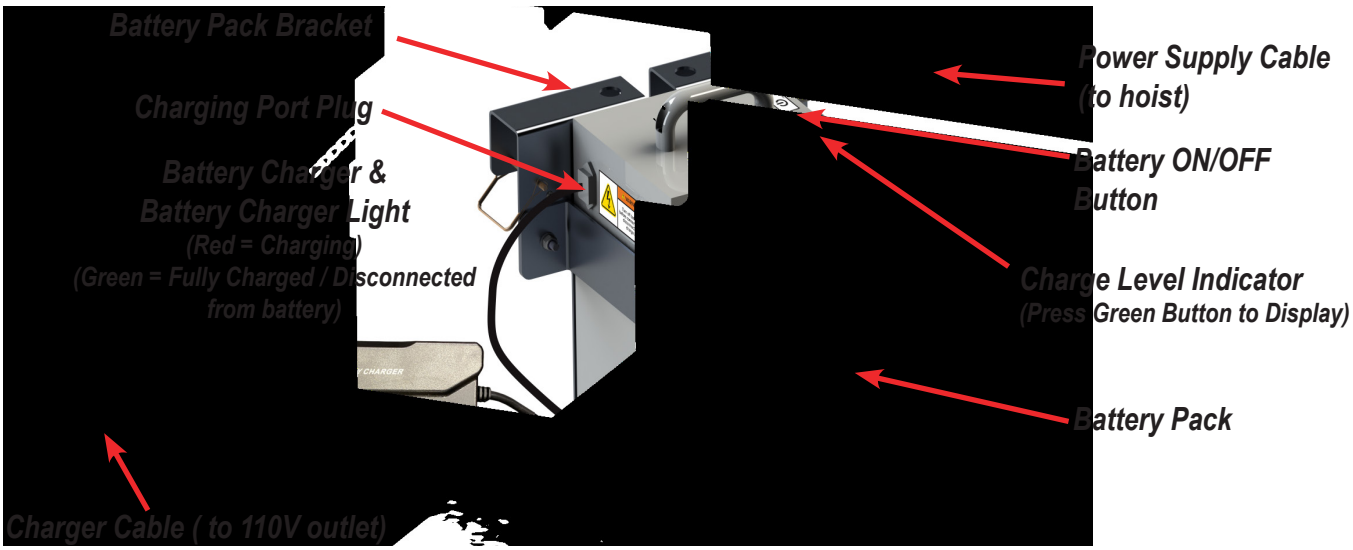


Figure: 3.2.1

3.3 Charge Indicator

The battery charge indicator displays the current charge remaining on the battery. One of ten colored bars will be illuminated (seven green, two yellow, and one red bar) as the battery discharges from left to right. If the two bars on the far left are flashing, the battery charge is less than 30% and should be charged.

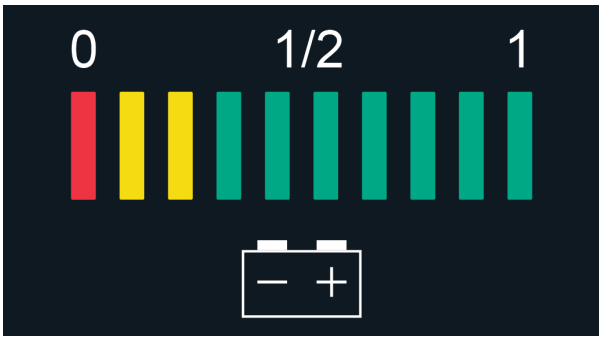


Figure: 3.3.1

3.4 Battery Storage

For long term storage (longer than three months), **DO NOT** store the battery pack at full charge as this could lead to swelling, leakage, or loss of performance; 50% of capacity is ideal.

To maintain peak battery life, the battery pack should be stored in a dry, clean area with good ventilation.

- For storage of under one month, the battery pack can be stored in a location between -20° to 60°C (-4° to 140°F).
- For storage between one and three months, the battery pack can be stored in a location between 0° to 40°C (32° to 104°F).
- If the battery will be stored for over three months, the ambient temperature should be maintained at 20°C +/- 5°C (68°F +/- 10°F) with a relative humidity of 65% +/- 20%.

Depending on ambient temperature, the battery pack will self discharge at approximately 3% per month. The battery pack should be checked periodically to prevent under-voltage conditions and partially recharged as necessary.

3.5 Battery Disposal

The battery must be returned to a certified Power Climber® service center for proper disposal.

4. WIRE ROPE

4.1 Wire Rope Terminations

1. To prepare the end of IWRC wire rope for insertion, cut back the steel center at least 2” (51 mm) to allow for independent movement of the core. Braze and rough shape the end of the wire rope to form a smooth, tapered, bullet shape no more than 1/4” (6.4 mm) long. **DO NOT** cool the end of the hot wire rope in water or oil as this makes the end brittle and may cause it to break off. Oil the bullet after it cools to prevent rusting.

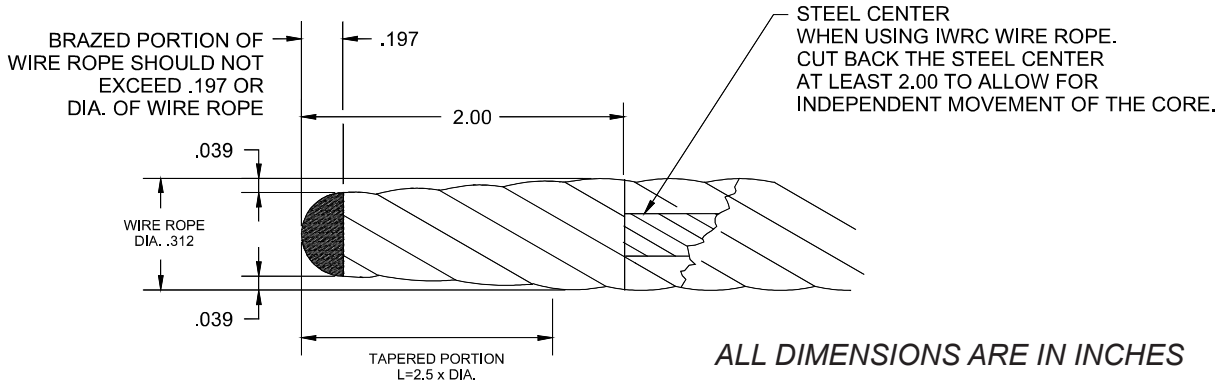


Figure: 4.1.1

2. Use a heavy-duty thimble for the primary suspension wire rope and follow the manufacturer’s requirements for termination of the wire rope hardware that you are using.
3. In situations where it is not possible to lower the platform to the ground, secure the tail line with a suspension loop, as shown below, to prevent the platform from sliding off the suspension ropes. Before rigging in such a situation, consult a safety professional.

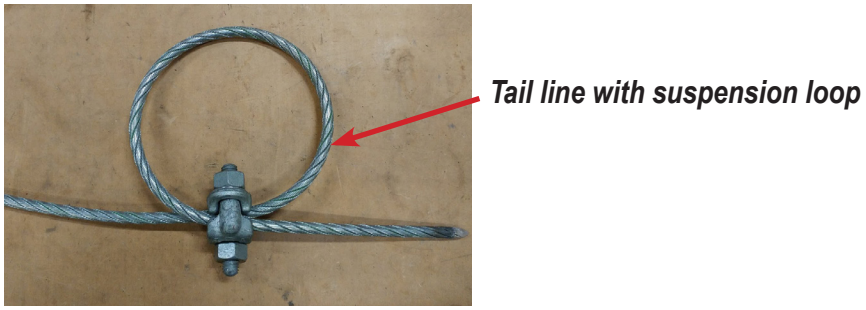


Figure: 4.1.2

4.2 Wire Rope Cautions

1. Wire rope stretches when loaded, which reduces the diameter. Wire rope begins to wear the moment it is used. It must be regularly inspected to be sure it is in good condition. Wire rope must be removed from service when diameter loss or wire breakage occurs, as detailed in ANSI A10.4.
2. Be sure there is enough wire rope to reach the lowest possible point of travel.
3. **DO NOT** expose the wire rope to fire, temperatures above 200° F (94° C), passage of electrical current, corrosive atmospheres, or corrosive chemicals. Such exposure will make the wire rope unsafe.
4. Acids will corrode and reduce the strength of both inner and outer stands. If wire rope has been exposed to corrosive chemicals, it MUST be discarded upon completion of the project, or sooner if any damage is evident. **DO NOT** save wire rope that has been in contact with corrosive substances. When in doubt, replace the wire rope.

4.3 Wire Rope Inspection

The need for replacement of suspension wire ropes shall be determined by regular inspection and shall be based on the condition of the wire rope inspected. Wire rope in active service should be visually inspected **once every working day**. A thorough inspection shall be made once a month, or before each use if the suspension wire ropes have been inactive for 30 days or longer and are placed into service. Dated and signed monthly reports indicating the condition of the ropes found during inspections must be kept.

Any of the following conditions, or combination of conditions, shall be considered as sufficient reason for the removal of the wire rope from service:

Wire rope with one or more of the following defects shall be removed and replaced immediately:

1. Whenever there is severe corrosion. Any development of slight corrosion shall be noted and watched closely;
2. Whenever there are broken wires, as follows:
   a. When there is more than one valley break. A valley break is a wire break occurring in the valley between two adjacent strands.
   b. When there are six (6) randomly distributed broken wires in one rope lay or three (3) broken wires in one strand in one rope lay. (A rope lay is the length along the rope in which one strand makes a complete revolution around the rope.)
3. Whenever there are broken wires in the vicinity of attachments. If this condition is localized in an operating rope, the section in question may be eliminated by making a new attachment. This may be done instead of replacing the entire rope.
4. Whenever there is abrasion, scrubbing, flattening, or peening that causes loss of more than one-third of the original diameter of the outside wires.
5. Whenever there are severe kinks, crushing, bird-caging, or other damage resulting in distortion of the rope structure.
6. Whenever there is evidence of any heat damage resulting from a torch or caused by contact with electrical wires; and when the reduction from the nominal diameter of the rope is:
   a. More than 1.2 mm (0.047 in.) for diameters up to and including 20 mm (0.78 in.)
   b. 1.5 mm (0.059 in.) for diameters 22 to 28 mm (0.87 to 1.10 in.)
   c. 2.5 mm (0.01 in.) for diameters 32 to 40 mm (1.26 to 1.57 in.)
7. Always inspect the wire rope termination and refer to the manufacturer’s inspection procedures.

5. THE POWER CLIMBER® PC3-1000-RE SERIES HOIST

The Power Climber® PC3-1000-RE hoist is used to raise, support, and lower suspended scaffolds and work cages on, or in, buildings and structures. If this hoist is used for any other purpose, all necessary precautions must be taken to ensure that both the design and operation of the setup in which the hoist will be used will be hazard-free, and that such use conforms to the manufacturer's specifications.

Power Climber® reserves the right to make changes or modifications to its hoist. Users of this equipment must request current operating information prior to using this equipment. Call your local Power Climber® operations center.

5.1 Features of the Power Climber® PC3-1000-RE Series Hoist

Feature	Function	Benefit
Operating Range: 40 VDC - 48 VDC	• Proven reliable performance • Tested in 1 hour continuous run tests	• Reduces service calls • Extends electric component life • Eliminates power-induced down time • Saves time and money
Load-sensitive Traction	• Applies only the traction needed to lift load, not full 1,000 lb (454 kg) lifting force on rope • Virtually eliminates the risk of wire rope jams	• Greater tolerance of wire rope condition • Extends wire rope life by minimizing wear and tear on rope • Prevents costly wire rope jams • Reduces the need for rescues
Emergency Descent	• Allows downward travel at a controlled rate of speed in the event of power loss	• Eliminates need for rescue • Allows self-rescue of workers and platforms
Built-in Overspeed Brake	• Stops hoist in overspeed condition • Can't be left behind in shop, bypassed, or dismantled	• Ensures greater operator safety • Improved reliability
Battery Powered	• Provides up to 3 hours of run time • Rechargeable	• Allows for operation in situations where on-site power is not available or feasible
Battery Regeneration (in down direction)	• Battery will recharge while operating in the down direction	• Extends operational time
Overspeed Trip Indicator (Incorporated into DOWN Button)	• DOWN button lights up red when overspeed has been tripped and DOWN circuit has been interrupted	• Gives the operator greater control and understanding

5.2 Features of the Power Climber® PC3-1000-RE Series Hoist (continued)

Feature	Function	Benefit
Voltage Indicator Light (Incorporated into UP Button)	• Indicates voltage is flowing to unit and battery is properly connected	• Easy visual inspection can eliminate a service call
Remote Ready	• Built-in pendant port accepts plug-in remote control • Compatible with 723263-xxx pendant	• No need to drill and wire remote into hoist • Leaves hoist mounted controls operable
Overload Kit	• Allows overload to be shop-set to 125% of rated load	• Reduces rigging material and labor
Battery Charge Indicator	• Displays the remaining charge on battery while moving	• Easily indicates to operator when to charge the battery
Hour Meter	• Displays the number of hours the hoist has been in use	• Easily indicates when service needs to be performed

5.3 Optional Features of the Power Climber® PC3-1000-RE Series Hoist

Feature	Function	Benefit
Optional Top Limit Switch	• Stops upward travel on contact with an overhead obstruction	• Easy installation
Optional Built-in Secondary Suspension Wire Rope	• Mounts to hoist for maximum security and durability • Allows use of secondary suspension wire rope for applications that require it	• Eliminates possible loss/damage because it is built-in • Adds versatility to hoist applications

5.4 Specifications

	Single Phase
Working Load Limit (WLL)	1,000 lb (454 kg)
Power Supply	48 VDC
Amperage at WLL	28 amps at 1,000 lb (454 kg)
Wire Rope Diameter	5/16" (8 or 8.4 mm)
Wire Rope Specification	5x26, 6x19, or 6x31; IWRC (Independent Wire Rope Core) or FC (Fiber Core); Right Regular Lay, IPS (Improved Plow Steel) or EIPS (Extra Improved Plow Steel); Preformed; Galvanized or Bright User must verify that the wire rope meets or exceeds applicable codes for breaking strength safety factor. US temporary applications require 6:1.

6. PARTS OF THE POWER CLIMBER® PC3-1000-RE HOIST

6.1 Front View

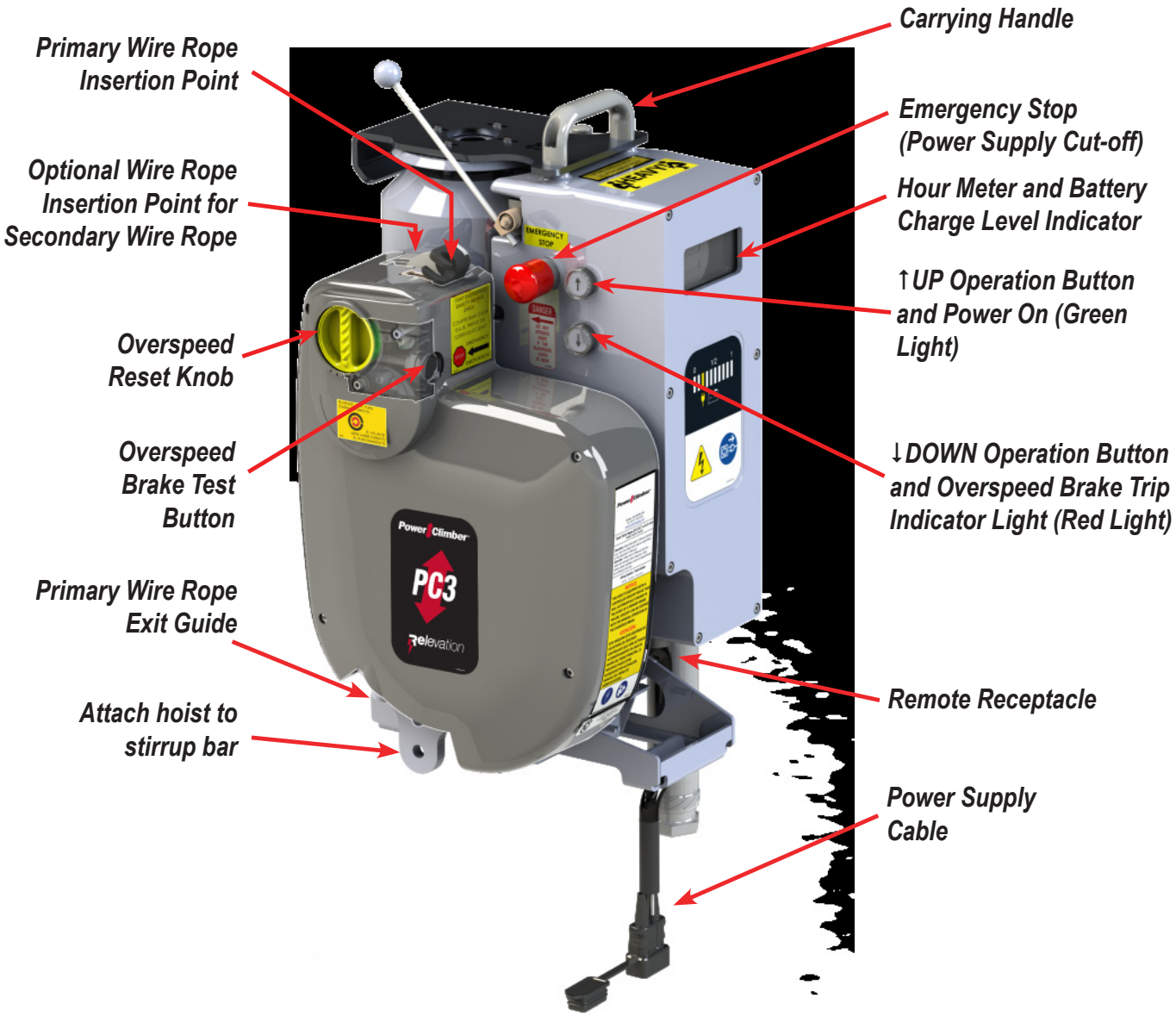


Figure: 6.1.1

6.2 Back View & Battery Pack

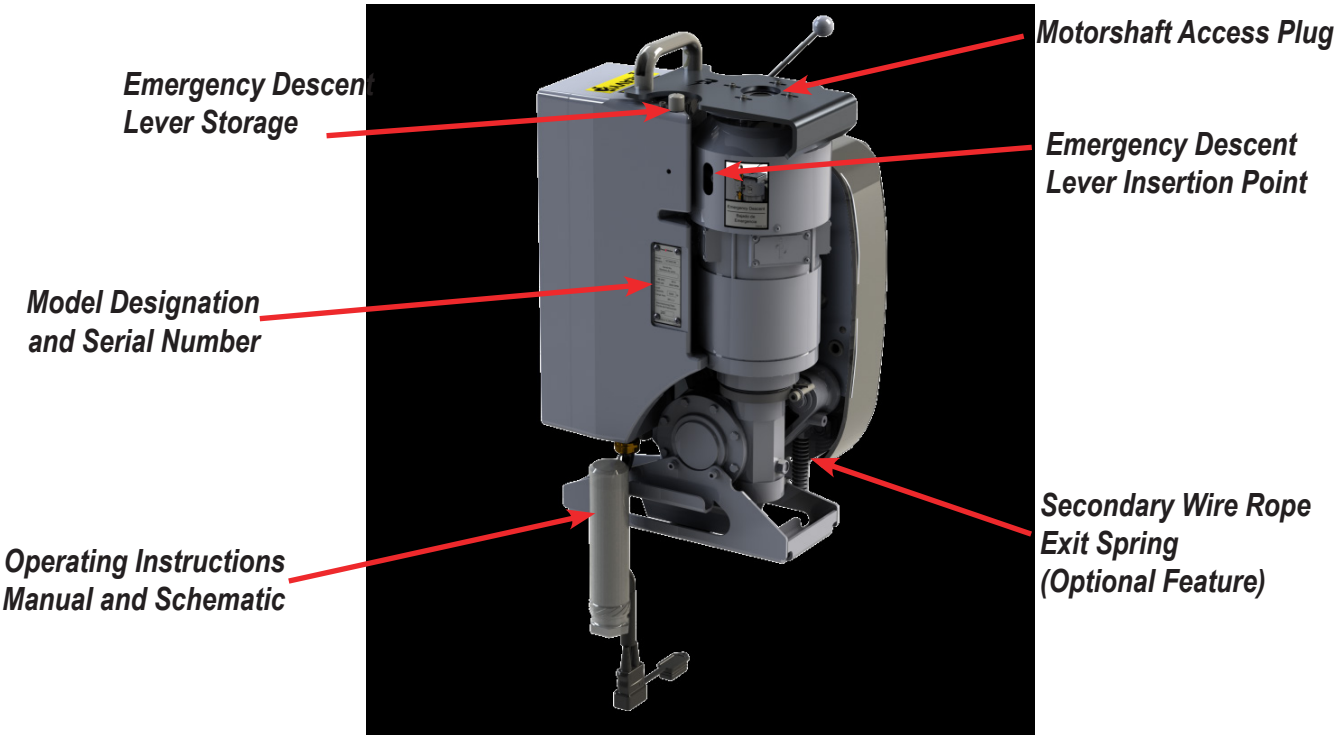


Figure: 6.2.1

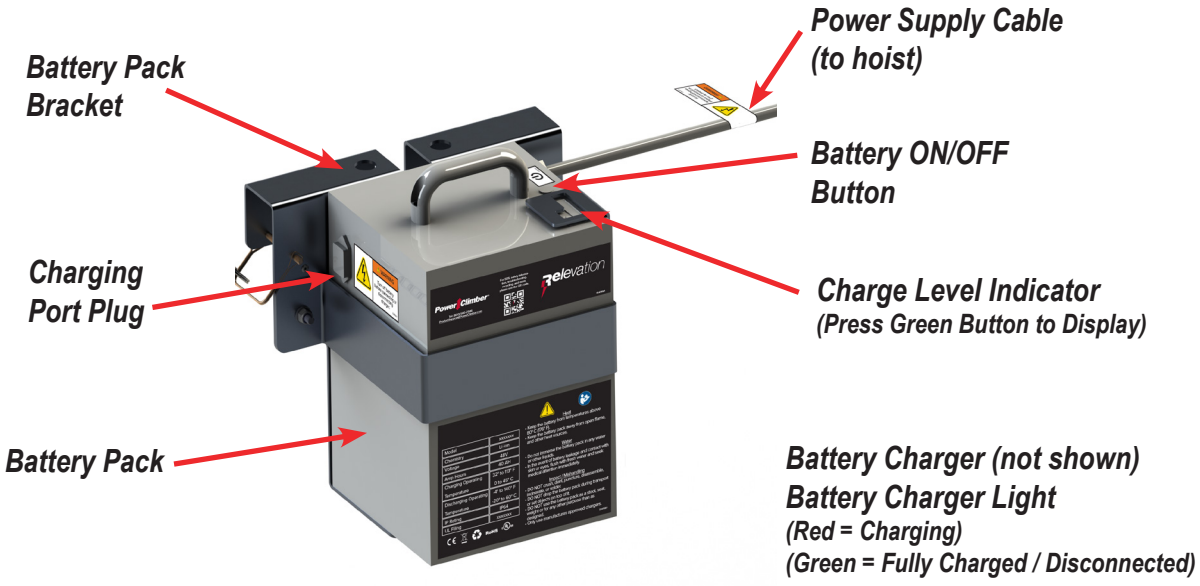
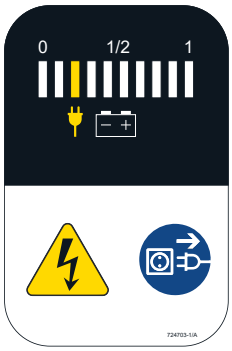


Figure: 6.2.2

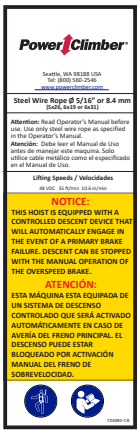
6.3 Labels

Front Cover Label (724748-1)



Battery Charge Label (724703-1)

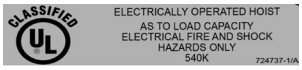
Emergency Descent Label (723542-1)



Wire Rope Size Label (724280-1)

Lift Handle (709896-1)

Flywheel Operation (9986)



UL Mark Label (Factory Only)

Heavy Object Label 720351-1

Slackrope Lever Warning (8-0206)

Emergency Stop Label (8-0261)

Overspeed (9996)

▲ = Inspect ● = Verify ■ = Perform process

7. HOIST SETUP

7.1 Installing Hoist onto Platform

Follow the manufacturer's instructions for platform assembly.

The hoist can be lifted into position by hand or under power.

Attach the hoist stirrup bar to the platform stirrup.

Connect the hoist to the power supply. Power Climber® battery hoists have a push & lock plug.

The power indicator light will come on when the hoist receives power and the emergency stop is not depressed.

7.2 Reeving Primary Suspension Wire Rope

Push the primary suspension wire rope through the wire rope insertion point approximately 15 inches.

Operate the hoist in the ↑UP direction while pushing the rope into the hoist.

Ensure the wire rope runs freely through the wire rope exit guide.

Figure: 7.2.1

▲ = Inspect ● = Verify ■ = Perform process

7.3 Reeving Optional Secondary Wire Rope

Push secondary wire rope through the wire rope insertion point for the secondary rope until it exits the hoist.

Attach a 25 lb (11.5 kg) weight to the end of the secondary wire rope to apply tension to assist in wire rope travel.

Secondary Suspension Wire Rope Insertion Point

Figure: 7.3.1

▲ = Inspect ● = Verify ■ = Perform process

8. OPERATING THE HOIST

8.1 Warnings

CAUTION:

BEFORE operating this hoist, you must understand and follow the instructions 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.

- **DO NOT OPERATE THE HOIST IF** you hear unusual noises.
- **DO NOT OPERATE THE HOIST IF** adjustments or repairs seem necessary.
- **DO NOT OPERATE THE HOIST IF** any warning, operating or capacity instructions are unclear, missing, illegible or damaged you cannot see the flywheel turning through the overspeed window.

Figure: 8.1.1

- Report any problems to your supervisor and also notify the next operator when changing shifts. Tag the hoist "**DO NOT USE UNTIL REPAIRED**".
- NEVER operate an electric hoist or any electrical equipment in an explosive atmosphere. Explosive atmospheres exist around refineries, chemical plants, grain elevators, distilleries, inside silos and mines or around coal handling equipment. This is not a complete list! Consult an expert if you are in doubt about the safety of your immediate surroundings.

▲ = Inspect ● = Verify ■ = Perform process

8.2 Normal Operation

For routine travel in the ↑UP direction, push in the ↑UP operation button.

For routine travel in the ↓DOWN direction, push in the ↓DOWN operation button.

Both the ↑UP and ↓DOWN operation buttons are spring-loaded. When released, each button returns to the OFF position and applies the brake.

If the hoist does not immediately stop the platform when the buttons are released, press the emergency stop button AND the overspeed brake test button. Unplug the power supply cable. Contact your supervisor.

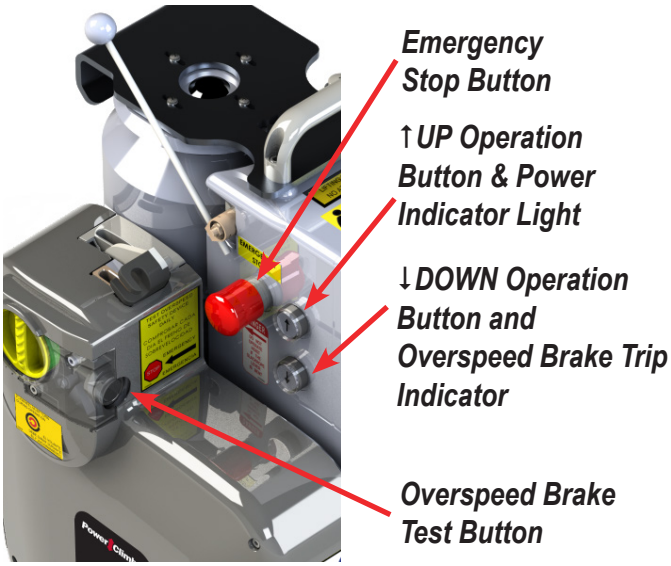


Figure: 8.2.1

▲ = Inspect ● = Verify ■ = Perform process

8.3 Cautions for Cold Weather Operation

When operating the hoist in cold weather, test the secondary overspeed brake frequently to make sure it is not frozen. (Refer to section “9.3 Resetting the Overspeed Brake Test Button” on Page 29).

If the hoist will not raise or lower the platform while you are trying to test the overspeed brake, **DO NOT USE THE HOIST** unless this is corrected during the thaw-out process outlined below.

If the overspeed brake does not stop the hoist, **DO NOT USE THE HOIST** until the brake has been thawed using the instructions below. Wait until the hoist is fully dry and is in proper working condition before using.

Thaw the brake by blowing ducted dry heat (150° F / 66° C max.) on the brake area. This can be done with an ordinary hair dryer. **DO NOT USE AN OPEN FLAME** on the hoist.

If the hoist does not operate properly after thawing, **DO NOT USE**. Return the hoist to your supplier.

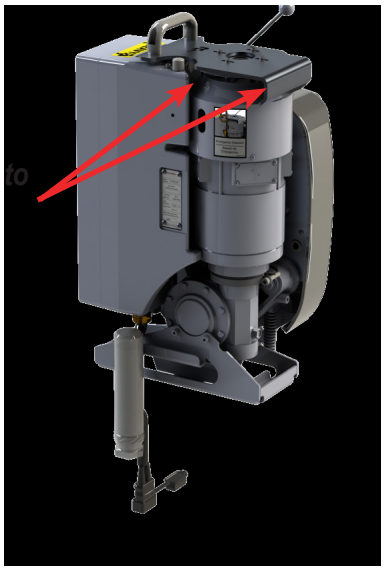


Figure: 8.3.1

CAUTION:

Use extreme caution when operating the hoist in freezing temperatures. Test frequently for normal hoist operation. All tests must be done within 3 feet (1 meter) of ground level.

▲ = Inspect ● = Verify ■ = Perform process

9. DAILY TESTING AND INSPECTION

CAUTION:

Perform all daily tests to ensure correct operation!* DO NOT *use the hoist for lifting until it has successfully completed the daily tests.

The following tests must be performed at the start of each work shift. If the hoist fails any test, **DO NOT USE THE HOIST UNTIL IT IS REPAIRED**. Refer to the pictures on Page 20 through Page 21 to identify components. All tests are performed at or near ground level.

9.1 Inspect after Previous Use

▲ Before operating the hoist, inspect the following:

- ► Wire rope
- ► Power supply
- ► Rigging
- ► Platform
- ► Hoist

● Verify that all parts are present, in proper working order, and are not damaged.

● Bolts, nuts, and clamps must be well secured.

● Ensure the hoist is secured to the stirrup with SAE Grade 5 fasteners and locknuts that are properly installed.

▲ When using the hoist in a harsh environment that contains epoxy, paint, cement, sand blast residue, or corrosive material, inspect the operation of the secondary overspeed brake several times a day. Protective hoist covers are recommended in these environments. Contact your hoist supplier.

▲ = Inspect ● = Verify ■ = Perform process

9.2 Testing the Overspeed Brake Test Button

Push in the ↑UP Operation Button and raise the platform approximately 3 feet (1 meter).

Remove the Emergency Descent Lever from the storage location and insert into brake through the cutout on motor body.

Lift the Emergency Descent Lever. As the hoist begins to descend, push the Overspeed Test Button.

The hoist MUST stop IMMEDIATELY! The ↓DOWN button will light up **RED** to indicate the overspeed brake has activated and the ↓DOWN circuit has been interrupted.

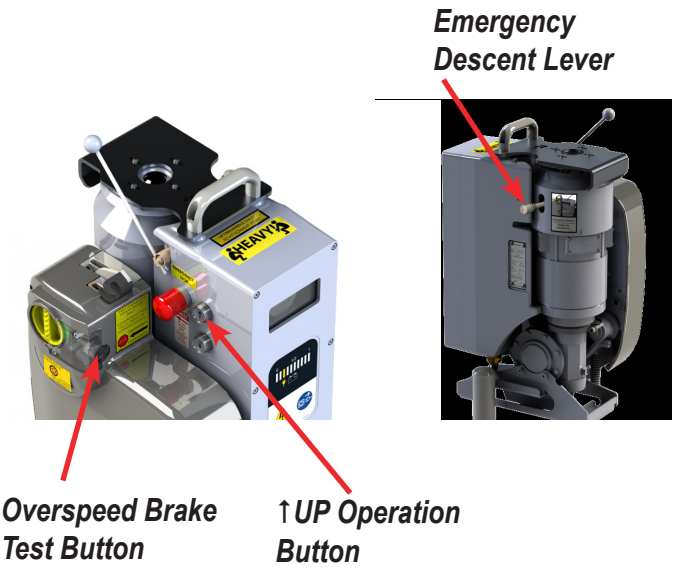


Figure: 9.2.1

9.3 Resetting the Overspeed Brake Test Button

▲ = Inspect ● = Verify ■ = Perform process

Power the hoist ↑UP a few inches while at the same time turning the Overspeed Brake Reset Knob clockwise until it clicks into position with the 'braided' bar vertical. The Overspeed Brake Test Button releases and the ↓DOWN Operation Button is not longer lit up **RED**.

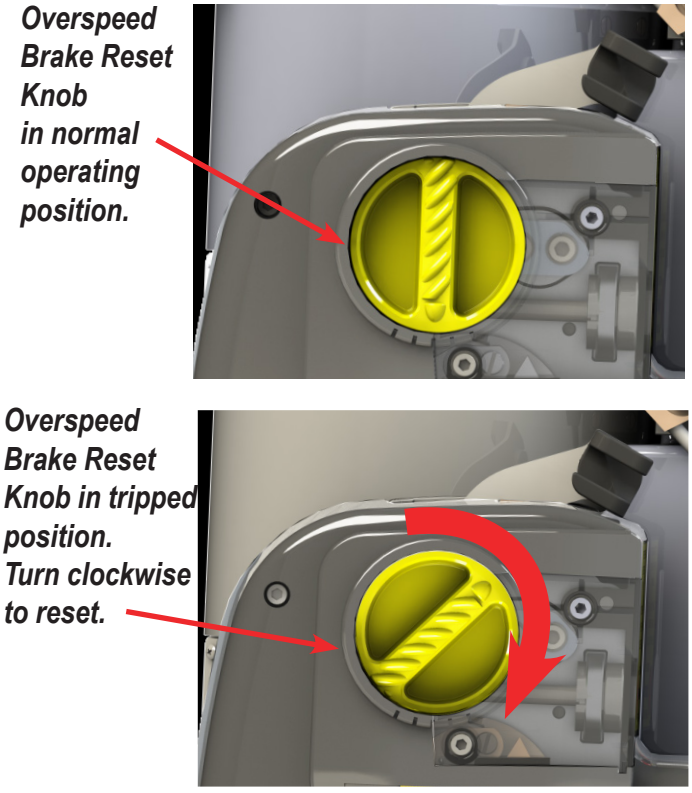


Figure: 9.3.1

▲ = Inspect ● = Verify ■ = Perform process

9.4 Testing the Overspeed Brake

De-reeve the wire rope.

Re-insert the rope about 12" (30 cm) into the hoist.

Holding the wire rope firmly, pull it out quickly.

If the brake is working correctly, it will grab and hold the wire rope in less than 4" (10 cm). The ↓DOWN button will light up **RED** to indicate the overspeed brake has activated and the ↓DOWN circuit has been interrupted.

Repeat this test at least 3 times. If the brake does not work correctly every time, **DO NOT USE THE HOIST**. Return the hoist to your supplier.

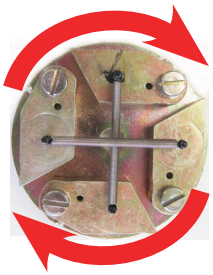
Reset the overspeed brake by turning the overspeed brake reset knob clockwise.

Figure: 9.4.1

▲ = Inspect ● = Verify ■ = Perform process

9.5 Check for Flywheel Movement

While powering the hoist ↑UP and ↓DOWN approximately 3 feet (1 meter), look through the window into the overspeed compartment to see whether the flywheel is turning. The flywheel should rotate either clockwise or counterclockwise depending on whether the hoist is raising or lowering a load.



CAUTION:

DO NOT ***operate the hoist if you cannot see the flywheel turning.***

Figure: 9.5.1

9.6 Testing the Emergency Stop Button

Press the red emergency stop button while running the hoist in either direction.

Once the emergency stop button has been pressed, the hoist should not move at all.

The green POWER ON light will dim and then turn off after a few seconds.

To reset the emergency stop button, pull the button out.

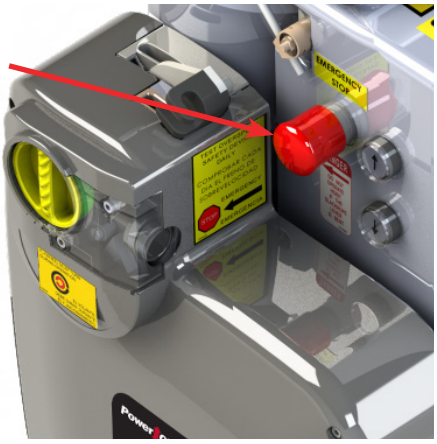


Figure: 9.6.1

▲ = Inspect ● = Verify ■ = Perform process

9.7 Testing the Emergency Descent

Raise the hoist approximately 3 feet (1 meter).

Remove the Emergency Descent Lever from the storage location and insert into brake through the cutout on motor body.

Pull up the emergency descent lever SLOWLY, to make sure the hoist does not overspeed. The platform should descend at a slow, controlled speed.

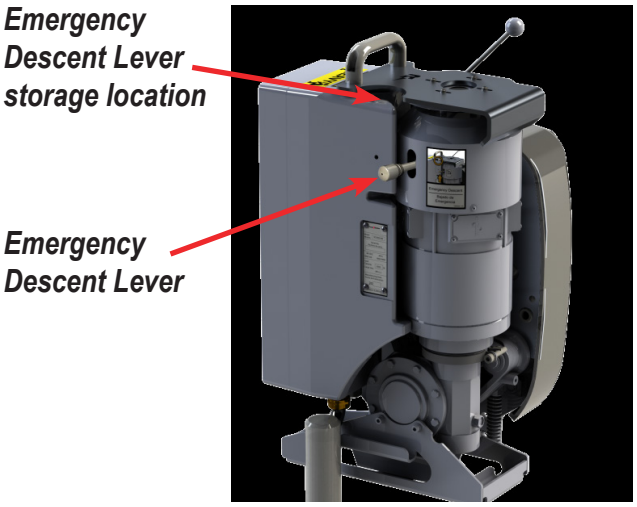


Figure: 9.7.1

CAUTION:

If the overspeed brake trips while testing the emergency descent, the emergency descent system is not working properly and THE HOIST SHOULD NOT BE USED.

NOTE:

In cold temperatures, emergency descent will lower the hoist much slower. This is especially likely when the hoist has not moved for an extended time. If it is too cold for emergency descent to move the hoist at all, operate the hoist up and down two meters (7 ft) for approximately 5 minutes, until emergency descent becomes operational.

▲ = Inspect ● = Verify ■ = Perform process

10. DE-REEVING

10.1 Removing the Optional Secondary Suspension Wire Rope

▲● Verify hoist is secure in the stirrup mount prior to applying slack in the primary suspension wire rope. In order to remove the secondary suspension wire rope, there must be no slack on the primary suspension wire rope and the platform must be supported on a flat, stable surface.

■ Remove the counterweight from the end of the secondary suspension wire rope.

■ Pull the secondary suspension wire rope out of the hoist by hand.

■ If necessary, the primary suspension wire rope can now be removed from the hoist.

10.2 Removing the Primary Suspension Wire Rope

For hoists equipped with the optional secondary wire rope, the secondary wire rope must be removed before the primary wire rope is removed.

CAUTION:

To prevent hoists and platform from tipping and avoid injuries, ensure that the platform is properly supported on a flat, stable surface before putting slack on the primary suspension wire rope.

● Verify that platform is supported by a flat, stable surface before putting slack on the primary suspension wire rope.

■ Push in the ↓DOWN operation button to wind the primary suspension wire rope out of the hoist. To remove the last 15 inches (40 cm) of wire rope, if necessary, grab the wire rope above the insertion point, hold the overspeed brake reset knob in the reset position (vertical) and slowly pull the primary suspension wire rope out of the hoist.

11. HOIST MAINTENANCE

11.1 Regular Maintenance

The hoist should be returned to an authorized Power Climber® service location for annual inspection at least once a year from the date it was placed into service.

The hoist should be returned to an authorized Power Climber® service location every 105 hours of use for overhaul service.

More frequent service may be required if the hoist is subjected to harsh environments.

11.2 Special Maintenance

If the hoist fails any inspection or operation, it should be returned for service.

12. BATTERY MAINTENANCE

Inspect battery housing, battery charger, and power cables for damage.

Verify buttons and LCD screen on battery function properly.

Verify charging port plug is free of debris and secured.

If any damage is discovered, notify supervisor and return battery to a certified Power Climber® service center.

= Inspect = Verify = Perform process

13. TROUBLESHOOTING

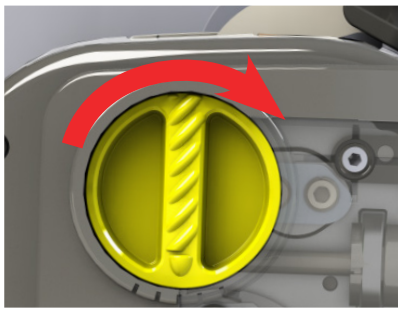
STOP! Read ALL troubleshooting guidelines before attempting any solution.

Problem	Possible Cause and Solution
13.1 No Power to Platform AND Voltage indicator light (↑UP button) is OFF. Consult supervisor to correct problems.	● Verify hoist is connected to 48 VDC battery source. ● ■ Plugs are not connected; check hoist, power cord, and battery power source. ● Damaged connection between battery and supply plug. ● ▲ Power indicator light is burnt out. ● Emergency Stop button may be depressed; reset button.
13.2 Hoist does not Run AND Voltage indicator light is ON.	● ■ If the motor is hot, thermal overload protection may have been tripped. Allow motor to cool and see if it resets. This may take 30 minutes or more. ● Frequent stops and starts, high outside temperature, a dragging brake, or overloading can cause the motor to heat up. ● Determine if overspeed device is activated. ● Verify that the voltage is between 40-48 VDC. This can be checked using the *battery charge level indicator on the battery box*.
13.3 Motor runs Normally, but Hoist will not Lift	**WARNING! WIRE ROPE MAY BE JAMMED. DO NOT OPERATE HOIST. CALL YOUR SUPERVISOR.** ● Make sure the bullet end of the wire rope has come out of the wire rope exit guide. ▲ ■ Inspect the wire rope for damage or wear. Replace if necessary.

▲ = Inspect ● = Verify ■ = Perform process

Problem	Possible Cause and Solution
13.4 Hoist does not move ↑UP, only↓DOWN.	■ Check battery voltage. This can be checked using the battery charge level indicator on the battery box. ► If voltage is lower than 40V the hoist will still operate in the down direction, but battery needs to be charged. ● ■ Overloading due to too much weight on platform. ● ■ Overloading due to rigging. ● ■ Overload might not be properly set. If battery voltage is sufficient, operate hoist down to next landing platform and remove excess load.
13.5 Wire Rope will not Reeve	■ Increase hand pressure on the wire rope while rotating the control switch in the ↑ UP direction. ■ Take the wire rope out, rotate it 180° and put it back into the hoist while pushing in the ↑ UP operation button. ● ■ Poor bullet: prepare new end. ● ■ End of wire rope is bent or kinked: prepare new end. ● ■ Dirt or other material is obstructing the rope inside the hoist. Clean out with air or flush with water.
13.6 Overspeed Flywheel does not Turn while Hoist moves ↑UP or ↓DOWN and YOU ARE IN THE AIR	**WARNING! DO NOT OPERATE HOIST. CALL YOUR SUPERVISOR.** ■ Push the overspeed brake test button and wait to be rescued.

Problem	Possible Cause and Solution
13.7 Overspeed Flywheel does not Turn while Hoist moves ↑UP or ↓DOWN and YOU ARE ON THE GROUND	**WARNING! DO NOT OPERATE HOIST.** ▲ ☐ Check and correct the following: ► Clear obstructions such as dirt or other materials. ► Wire rope may be worn out. Call your supervisor. ► Hoist parts may be worn out. Call your supervisor,
13.8 Hoist Operates in ↓DOWN Direction when Overspeed Brake Test Button is Pushed	**WARNING! HOIST MAY HAVE A BAD OVERSPEED SWITCH. DO NOT OPERATE.** ☐ Call your supervisor. ☐ Contact a certified Power Climber® service center for servicing and repair.
13.9 Hoist does not Stop Immediately when the Control Switch is Released	☐ Push the overspeed brake test button and wait to be rescued. ☐ Call your supervisor. ☐ Return the hoist to a certified Power Climber® service center for servicing.
13.10 You hear Unusual Noises coming from the Hoist and YOU ARE IN THE AIR	**WARNING! WIRE ROPE MAY BE JAMMED. DO NOT OPERATE. ANY ATTEMPT TO OPERATE THE HOIST MAY CAUSE SERIOUS INJURY OR DEATH.** ☐ Push the emergency stop button. ☐ Push the overspeed brake test button and wait to be rescued. ☐ Unplug the hoist from the battery. ☐ Call your supervisor. ☐ Return the hoist to a certified Power Climber® service center for servicing.

Problem	Possible Cause and Solution
13.11 You hear Unusual Noises coming from the Hoist and YOU ARE ON THE GROUND	**WARNING! WIRE ROPE MAY BE JAMMED. DO NOT OPERATE.** Check for damaged wire rope and replace as necessary. Check for dirt on the wire rope and clean as necessary. Check the hoist for visible signs of damage. Call your supervisor. Return the hoist to a certified Power Climber® service center for servicing.
13.12 Cannot Reset the Overspeed Brake Reset Knob (Hoist HAS Power)	**WARNING! WIRE ROPE MAY BE JAMMED. DO NOT OPERATE HOIST.** **DO NOT RESET THE OVERSPEED UNTIL:** ► You have determined that there is enough wire rope to reach a safe landing surface. ► You know that the wire rope is not jammed in the hoist. ► You know the reason that the overspeed has been tripped and there will be no danger when it is reset. ► You have checked for and corrected the following situations: ► Undersized wire rope ► Worn parts ► Foreign contaminants that defeat traction, such as ice or lubricants. ► Improper use of the platform, such as overloading. Power the hoist up a few inches at the same time as you turn the reset knob clockwise until the reset knob engages.  *Figure: 13.12.1*

Problem	Possible Cause and Solution
13.13 Hoist Will NOT Travel Downward AND You Cannot Reset the Overspeed Brake Reset Knob (Hoist has NO Power)	Once it is safe to reset the overspeed safety (refer to 13.12), unplug the power supply cable and engage the red emergency stop button to ensure that power does not come back on while performing the steps that follow. Remove the plastic motor cap. Place a 13 mm deep well socket wrench on the hex shaft of the motor and with other hand, pull up on the emergency brake handle. Turn the wrench clockwise (from the vantage point of the front of the hoist). Be sure to release the emergency brake handle BEFORE releasing tension on the wrench so that the hoist does not slip backwards. Turn the wrench the hoist has moved up the wire rope enough to reset the overspeed safety. Replace the plastic motor cap. Return the platform to a safe landing location, troubleshoot electrical issues, and perform the Daily Testing and Inspection procedures found on Page 28 before continuing normal operation.

14. CODE OF SAFE PRACTICES FOR ADJUSTABLE SUSPENDED SCAFFOLDS

CO-DEVELOPED BY THE **SCAFFOLDING, SHORING & FORMING INSTITUTE (SSFI)**
and THE **SCAFFOLD AND ACCESS INDUSTRY ASSOCIATION, INC. (SAIA)**

It shall be the responsibility of all users to read and comply with the following common sense guidelines which are designed to promote safety in the erecting, dismantling and use of adjustable suspended scaffolds. These guidelines **DO NOT** purport to be all-inclusive nor to supplant or replace other additional safety and precautionary measures. If these guidelines conflict with any local, provincial, state, federal or other government regulations, the regulations shall supersede these guidelines and it shall be the responsibility of each user to comply therewith.

I. GENERAL GUIDELINES

A. POST THESE SAFE PRACTICES in a conspicuous place. Be sure that all persons who erect, use, relocate, or dismantle adjustable suspended scaffold systems are fully aware of them. Use them in tool box safety meetings.

B. FOLLOW ALL EQUIPMENT MANUFACTURER'S RECOMMENDATIONS as well as all local, provincial, state and federal codes, ordinances and regulations relating to adjustable suspended scaffold systems.

C. SURVEY THE JOB SITE. A competent person shall survey the job site for hazards such as exposed electrical wires, obstructions and, unguarded roof edges or openings.

D. INSPECT ALL EQUIPMENT BEFORE EACH USE. Never use any equipment that is damaged or defective in any way. Mark it or tag it as damaged or defective and remove it from the job site.

E. ERECT AND DISMANTLE ADJUSTABLE SUSPENDED SCAFFOLD EQUIPMENT in accordance with the design and/or manufacturer's recommendations.

F. DO NOT ERECT, DISMANTLE OR ALTER ADJUSTABLE SUSPENDED SCAFFOLD SYSTEMS except under the supervision of a competent person.

G. DO NOT ABUSE OR MISUSE ADJUSTABLE SUSPENDED SCAFFOLD EQUIPMENT. Never overload any equipment.

H. ERECTED ADJUSTABLE SUSPENDED SCAFFOLDS ARE TO BE INSPECTED REGULARLY by the user to be sure that they are maintained in a safe condition. Stop work and report any unsafe condition to your supervisor.

I. NEVER TAKE CHANCES! IF IN DOUBT REGARDING THE SAFETY OR USE OF ADJUSTABLE SUSPENDED SCAFFOLDS, CONSULT A QUALIFIED PERSON.

J. NEVER USE ADJUSTABLE SUSPENDED SCAFFOLD EQUIPMENT FOR PURPOSES FOR WHICH IT WAS NOT INTENDED.

K. **A COMPETENT PERSON SHALL CONSIDER STOPPING WORK WHEN WIND SPEED EXCEEDS 25 MPH FOR 2 POINT ADJUSTABLE SUSPENDED SCAFFOLDS OR 20 MPH FOR SINGLE POINT SUSPENSION.** If materials on a platform create a sail effect, stopping work at lower wind speeds must be considered.

L. **ADJUSTABLE SUSPENDED SCAFFOLD SYSTEMS** are to be installed and used in accordance with the manufacturer's recommended procedures.

M. **ADJUSTABLE SUSPENDED PLATFORMS MUST NEVER BE OPERATED NEAR LIVE POWER LINES** unless proper precautions are taken. Contact the power service provider for advice.

N. **ALWAYS UTILIZE FALL ARREST EQUIPMENT** when working on adjustable suspended scaffolds or when working near unguarded edges.

O. **DO NOT WORK FROM, INSTALL OR MOVE ADJUSTABLE SUSPENDED SCAFFOLDS** if you are sick or impaired in any way.

P. **DO NOT WORK ON ADJUSTABLE SUSPENDED SCAFFOLDS** when under the influence of alcohol or drugs.

Q. **DEBRIS SHOULD NOT BE STORED OR ALLOWED TO ACCUMULATE ON A PLATFORM.**

R. **INDEPENDENT ADJUSTABLE SUSPENDED SCAFFOLDS ARE TO BE POSITIONED SO AS TO AVOID OVERLAPPING OR POSSIBLE INTERFERENCE FROM ANOTHER SCAFFOLD.**

II. GUIDELINES FOR ERECTION AND USE OF ADJUSTABLE SUSPENDED SCAFFOLD SYSTEMS

A. RIGGING:

1. **UTILIZE FALL PROTECTION EQUIPMENT** when rigging near unguarded edges.
2. **SUPPORTING DEVICES** must be capable of supporting the hoist rated load with a safety factor of 4.
3. **ALL OVERHEAD RIGGING** must be secured from unwanted movement in any direction.
4. **COUNTERWEIGHTS USED WITH OUTRIGGER BEAMS** must be of a non-flowable material and must be secured to the beam to prevent accidental displacement.
5. **OUTRIGGER BEAMS THAT DO NOT USE COUNTERWEIGHTS** must be installed and secured to the roof structure with bolts or other direct connections. Direct connections shall be evaluated by a competent person.
6. **TIE BACK ALL TRANSPORTABLE RIGGING DEVICES.** Tieback shall be equivalent in strength to the suspension ropes.
7. **INSTALL TIEBACKS AT RIGHT ANGLES TO THE FACE OF THE BUILDING** and secure them without slack, to a suitable anchor capable of supporting the hoist rated load with a safety factor of 4.
8. **IN THE EVENT THAT TIEBACKS CANNOT BE INSTALLED AT RIGHT ANGLES,** two tiebacks at opposing angles must be used to prevent movement.
9. **RIG AND USE HOISTING MACHINES DIRECTLY UNDER THEIR SUSPENSION POINTS** to prevent movement or side loading.

B. WIRE ROPE AND HARDWARE:

1. **USE ONLY WIRE ROPE AND ATTACHMENTS** specified by the hoisting machine manufacturer.
2. **HANDLE WIRE ROPE WITH CARE.** Always use gloves.**COIL AND UNCOIL WIRE ROPE** in accordance with manufacturer's instructions in order to avoid kinking or damage.
3. **ASSURE THAT THE WIRE ROPE IS LONG ENOUGH** to reach to the lowest possible landing.
4. **CLEAN AND LUBRICATE WIRE ROPE** in accordance with the wire rope manufacturer's instructions.
5. **INSPECT WIRE ROPE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. DO NOT USE WIRE ROPE THAT IS KINKED, BIRD-CAGED, CORRODED, UNDERSIZED, OR DAMAGED IN ANY WAY. DO NOT** expose wire rope to fire, undue heat, corrosive atmosphere, electricity, chemicals or damage.
6. **WIRE ROPES USED WITH TRACTION HOISTS MUST HAVE PREPARED ENDS.** Follow hoist manufacturer's recommendations.
7. **USE THIMBLES AT ALL WIRE ROPE SUSPENSION TERMINATIONS.**
8. **USE J-BOLT WIRE ROPE CLAMPS OR SWEDGE FITTINGS. DO NOT USE U-BOLT CLAMPS.**
9. **TIGHTEN THE J-BOLT WIRE ROPE CLAMPS** in accordance with the manufacturer's instructions.

C. **POWER SUPPLY FOR MOTORIZED EQUIPMENT:**

1. **USE PROPERLY GROUNDED ELECTRICAL POWER CORDS.** Protect them with circuit breakers.
2. **USE POWER CORDS AND AIR HOSES OF THE PROPER SIZE THAT ARE LONG ENOUGH** for the application.
3. **POWER CORD AND AIR HOSE CONNECTIONS MUST BE RESTRAINED** to prevent separation.
4. **USE STRAIN RELIEF DEVICES TO ATTACH POWER CORDS AND AIR SUPPLY HOSES THE PLATFORM,** to prevent them from separation.
5. **PROTECT POWER CORDS AND AIR HOSES FROM SHARP EDGES.**
6. **USE GFCI WITH POWER TOOLS.**

D. **FALL ARREST EQUIPMENT:**

1. **EACH PERSON ON AN ADJUSTABLE SUSPENDED SCAFFOLD** must be attached to an independent fall arrest system.
2. **EACH VERTICAL LIFELINE SHALL BE ATTACHED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS** to a separate anchorage capable of supporting a minimum of 5000 pounds (2267 kg) or an anchorage designed by a qualified person.
3. **DO NOT WRAP LIFELINES AROUND STRUCTURAL MEMBERS** unless lifelines are protected and a suitable anchorage connection is used.
4. **PROTECT LIFELINES AT SHARP CORNERS AND EDGES** to prevent chafing.
5. **RIG FALL ARREST SYSTEMS** to minimize free fall.
6. **INSTALL VERTICAL LIFELINES SO THEY HANG FREELY.**
7. **USE LIFELINES** that are compatible with the rope grab.
8. **INSTALL ROPE GRAB IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.** Rope grab must be properly oriented.
9. **KEEP ROPE GRAB POSITIONED ABOVE YOUR HEAD.**
10. **UTILIZE FULL BODY HARNESSES** of the proper size and fit.
11. **UTILIZE SHOCK-ABSORBING LANYARD** attached to the D-ring at the center of your back between the shoulder blades.
12. **INSPECT FALL PROTECTION ANCHORAGE/EQUIPMENT BEFORE EACH USE.** Consult the fall protection supplier for inspection procedures.
13. **WHEN A SECONDARY WIRE ROPE SYSTEM IS USED** instead of a vertical lifeline, attach the lanyard to a horizontal lifeline or an approved platform anchor.

E. DURING USE:

1. **USE ALL EQUIPMENT AND ALL DEVICES** in accordance with the manufacturer's instructions.
2. **DO NOT OVERLOAD OR MODIFY EQUIPMENT.**
3. **INSPECT ALL EQUIPMENT INCLUDING HOISTS, PLATFORM, AND RIGGING** before each use.
4. **INSPECT WIRE ROPE BEFORE AND DURING USE.**
5. **USE CARE TO PREVENT DAMAGE TO EQUIPMENT.**
6. **CLEAN AND SERVICE EQUIPMENT REGULARLY.** Follow the manufacturers' recommendations.
7. **ALWAYS MAINTAIN AT LEAST (4) FOUR WRAPS OF WIRE ROPE ON DRUM TYPE HOISTS.**
8. **DO NOT CONNECT PLATFORMS** unless the installation was designed for that purpose.
9. **DO NOT MOVE ADJUSTABLE SUSPENDED SCAFFOLDS HORIZONTALLY** unless safe work practices are followed.
10. **WHEN RIGGING FOR ANOTHER DROP** assure sufficient wire rope is available before moving the suspended platform horizontally to the next location.

F. WELDING FROM SUSPENDED SCAFFOLDS REQUIRES SPECIAL TRAINING:

1. **ASSURE PLATFORM IS GROUNDED TO THE STRUCTURE** using a grounding conductor.
2. **INSULATE WIRE ROPE ABOVE AND BELOW THE PLATFORM.**
3. **INSULATE WIRE ROPE AT SUSPENSION POINT AND ASSURE WIRE ROPE DOES NOT CONTACT THE STRUCTURE ALONG ITS ENTIRE LENGTH.**
4. **PREVENT THE WIRE ROPE END FROM BECOMING GROUNDED.**
5. **INSULATE EACH HOIST WITH A PROTECTIVE COVER.**
6. **INSULATE TIE BACK WIRE ROPES AT THE CONNECTION POINTS.**

Since field conditions vary and are beyond the control of the SSFI and the SAIA, safe and proper use of adjustable suspended scaffolding is the sole responsibility of the user.

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