

WG-01 WINCH AND BRACKET



Part #: 32270; 32273; 15056

Instruction Manual

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- ✗ Do not throw instructions away.
- ⚠ Read and understand instructions before using this equipment.

Worker Classifications

- **Qualified Person:** A person with an accredited degree or certification, and with extensive experience or sufficient professional standing, who is considered proficient in planning/reviewing the conformity of fall protection and rescue systems.
- **Competent Person:** A highly trained and experienced person who is ASSIGNED BY THE EMPLOYER to be responsible for all elements of a fall safety program, including, but not limited to, its regulation, management, and application. A person who is proficient in identifying existing and predictable fall hazards, and who has the authority to stop work in order to eliminate hazards.
- **Authorised Person:** A person who is assigned by their employer to work around or be subject to potential existing fall hazards.

Applicable Safety Standards

Meets or exceeds:

- **ANSI Z359.4-2013**
- **OSHA 1910.140**
- **OSHA 1926.502**

Weight Capacity

- Maximum user weight range (including all clothing, tools, and equipment):
 - One Person: ANSI: 310 lbs / OSHA 420 lbs
- Material lifting only:
 - 550 lbs.
- Cranking force at maximum load:
 - 24 lbs.

Product Specific Applications



RESCUE/CONFINED SPACE: The WG-01 Winch may be used in Rescue/ Confined Space applications. Rescue systems function to safely recover a worker from a confined location or after exposed to a fall. There are various configurations of Rescue systems depending on the type of rescue. Structure must withstand loads applied in the directions permitted by the system of at least 3,000 lbs. No free fall is permitted.

Applicable D-rings: Dorsal, Chest, Shoulder (pairs only).

When lifting/lowering personnel a secondary SRL-R (Self Retracting Lanyard with Integral Rescue Capability) must be used in conjunction with this winch.

See Diagram C on page 11.



MATERIAL HANDLING: The WG-01 Winch may be used for Material Handling with a maximum load of 550lbs. A Competent Person **MUST** determine the safe and proper methods for equipment handling.

For all applications, the WG-01 Winch **MUST be used in combination with a tripod deemed compatible by a Competent Person, such as the Guardian Arc-O-Pod (part # 15030) or TR3 Weight Capacity (part # 32200).**

Product Specifications

Part #	Description	Weight
32270	WG-01 Winch with 65' x 3/16" Galvanized Cable and 15056 Tripod Bracket	28 lbs
32273	WG-01 Winch with 65' x 3/16 " Galvanized Cable	24.5 lbs
15056	WG-01 Winch Tripod Bracket for TR3 and Arc-O-Pod Tripods	3.5 lbs



Materials

Steel, Rubber, Nylon

Limitations

Fall Clearance: There must be sufficient clearance below the work surface to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for a MINIMUM 2' safety factor, deceleration distance, user height, length of lanyard/SRL, harness stretch, free fall, and all other applicable factors.

See Diagram A on page 11.

Swing Falls: Prior to installation or use, make considerations for eliminating or minimising all swing fall hazards. Swing falls occur when the anchor is not directly above the location where a fall occurs. Always work as close to in line with the anchor point as possible. Swing falls significantly increase the likelihood of serious injury or death in the event of a fall.

Compatibility

When making connections to the WG-01 Winch, eliminate all possibility of roll-out. Roll-out occurs when interference between a connector and the attachment point causes the connector gate to unintentionally open and release.

All connections must be selected and deemed compatible with the WG-01 Winch by a Competent Person.

All connector gates must be self-closing, self-locking, and withstand a minimum load of 3,600 lbs.

See Diagram B on page 11 for examples of compatible and incompatible connections.

Maintenance, Cleaning, and Storage

Cleaning after use is important for maintaining the safety and longevity of the WG-01 Winch. Remove all dirt, corrosives, and contaminants from the WG-01 before and after each use. If winch cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean WG-01 with corrosive substances.

When not in use or during transport, store equipment where it will not be affected by heat, light, excessive moisture, chemicals, or other degrading elements.

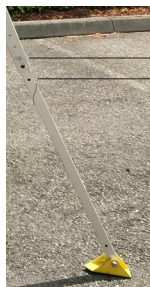
Installation and Use

- **PFAS equipment must be selected and deemed compatible with WG-01 Winch by a Competent Person (CP). ALWAYS follow instructions of equipment used in combination with this product.**
- **Ensure selected installation location for corresponding tripod is free of any debris, loose materials, and slippery surfaces. Tripod installation location must meet all criteria specified in tripod manufacturer's instructions.**
- **Total length of WG-01 is 65'. If applicable work area is not within reach of fully deployed cable, the WG-01 Rescue Winch MUST NOT be used.**

Arc-o-Pod Tripod

Step 1

Setup Arc-o-Pod to desired height. On leg with pulley, identify installation location.



Upper Bracket Pin Location

Lower Bracket Pin Location

For Arc-o-Pod, you must install lower bracket pin through the bottom of the top two holes on the telescoping leg.

Note: Location of WG-01 Winch relative to top of Arc-o-Pod will change depending on tripod height adjustment.

Step 2

Place bracket over tripod leg and install **LOWER** bracket locking pin first.



Step 3

While one person holds the upper tripod leg to prevent it from sliding, remove tripod leg adjustment pin and rotate bracket fully onto leg. Install locking pin in place of tripod leg adjustment pin.



Step 4

Route snap hook end of winch cable over pulley and through tripod head opening.



TR3 Tripod

Step 1

Setup TR3 to desired height. On leg with pulley, identify installation location.

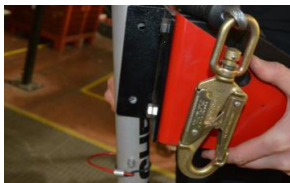


For TR3, bracket may be installed in any available location on upper tripod leg.

Available Bracket Mounting Locations

Step 2

Align holes in bracket with those on tripod leg at desired location and install locking pins.



Step 3

Route snap hook end of winch cable through tripod head opening.



Step 4

Slide spring-loaded pulley to the right to clear the cable retention pin and lay cable in pulley track. Allow pulley to return to normal operating position.



Operation

- Adjust handle to desired setting: For rapid winding with no load, use the shortest position. For greater control with max loads, use longer position. Tighten knurled knob firmly.
 - Once worker or load is connected to snap hook, rotate handle clockwise to lift or counter-clockwise to lower. Always keep a firm grip on handle and use a smooth motion when operating WG-01 winch.
 - Load will remain stationary when force is removed from the handle. If handle continues to rotate or load moves without user input, cease operation and immediately remove the device from service.
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- ⚠ WARNING!** Never touch any working parts during operation.
 - ⚠** For vertical lifting/hoisting only. Never attempt to pull a load horizontally.
 - ⚠** Never unwind WG-01 winch completely. Always leave at least seven (7) turns of cable on the drum. STOP deployment once red colored cable is reached. Failure to do so may result in an unsafe condition.
 - ⚠** Never attempt to add a load to the winch during active operation.
 - ⚠** Never attempt to mechanize the winch by the use of a drill or other powered device.
 - ⚠** Never use the equipment near moving machinery, electrical hazards, sharp, or abrasive surfaces.
 - ⚠** Never use this equipment in a manner other than as described in this user manual. For questions, contact Guardian immediately.
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Inspection

Prior to EACH use, inspect WG-01 Winch for deficiencies, including, but not limited to, corrosion, deformation, pits, burrs, rough surfaces, sharp edges, cracking, rust, paint buildup, excessive heating, alteration, fraying, bird-caging, and missing or illegible labels. IMMEDIATELY remove WG-01 Winch from service if defects or damage are found, if exposed to forces of fall arrest, or if red load indicator on swivel snap hook is visible.

Ensure that applicable work area is free of all damage, including, but not limited to, debris, rot, rust, decay, cracking, and hazardous materials. Ensure that work area will support the application-specific minimum loads set forth in this manual. Work area MUST be stable.

At least every 12 months, a Competent Person (CP) other than the user must inspect WG-01 Winch.

Inspections MUST be recorded in inspection log in instruction manual and on equipment inspection grid label. The CP must sign their initials in the box corresponding to the month and year the inspection took place.

During inspection, consider all applications and hazards the winch has been subjected to.

Product lifetime is indefinite as long as it passes pre-use and CP inspections.

This inspection log must be specific to one harness. Separate inspection logs must be used for each harness. All inspection records must be made visible and available to all users at all times. If equipment fails inspection it must be discarded immediately.

Inspection Log

Serial No:	Date:
Model #:	User:

Date:	Condition:	Inspected by:

Safety Information

⚠ WARNING! Failure to understand and comply with safety regulations may result in serious injury or death. Regulations included herein are not all-inclusive, are for reference only, and are not intended to replace a Competent Person's judgment or knowledge of federal or state standards.

Do not alter equipment. Do not misuse equipment.

Workplace conditions, including, but not limited to, flame, corrosive chemicals, electrical shock, sharp objects, machinery, abrasive substances, weather conditions, and uneven surfaces, must be assessed by a Competent Person before fall protection equipment is selected.

The analysis of the workplace must anticipate where workers will be performing their duties, the routes they will take to reach their work, and the potential and existing fall hazards they may be exposed to. Fall protection equipment must be chosen by a Competent Person. Selections must account for all potential hazardous workplace conditions. All fall protection equipment should be purchased new and in an unused condition.

Fall protection systems must be selected and installed under the supervision of a Competent Person, and used in a compliant manner. Fall protection systems must be designed in a manner compliant with all federal, state, and safety regulations. Forces applied to anchors must be calculated by a Competent Person.

Unless explicitly stated otherwise, the maximum allowable free fall distance for lanyards must not exceed 6'. No free fall allowed for non-LE SRLs. Class A SRLs must arrest falls within 24"; Class B SRLs must arrest falls within 54".

Harnesses and connectors selected must be

compliant with manufacturer's instructions, and must be of compatible size and configuration. Snap hooks, carabiners, and other connectors must be selected and applied in a compatible fashion. All risk of disengagement must be eliminated. All snap hooks and carabiners must be self-locking and self-closing, and must never be connected to each other.

A pre-planned rescue procedure in the case of a fall is required. The rescue plan must be project-specific. The rescue plan must allow for employees to rescue themselves, or provide an alternative means for their prompt rescue. Store rescue equipment in an easily accessible and clearly marked area.

Training of Authorized Persons to correctly erect, disassemble, inspect, maintain, store, and use equipment must be provided by a Competent Person. Training must include the ability to recognize fall hazards, minimize the likelihood of fall hazards, and the correct use of personal fall arrest systems.

NEVER use fall protection equipment of any kind to hang, lift, support, or hoist tools or equipment, unless explicitly certified for such use.

Equipment subjected to forces of fall arrest must immediately be removed from use.

Age, fitness, and health conditions can seriously affect the worker should a fall occur. Consult a doctor if there is any reason to doubt a user's ability to withstand and safely absorb fall arrest forces or perform set-up of equipment. Pregnant women and minors must not use this equipment.

Physical harm may still occur even if fall safety equipment functions correctly. Sustained post-fall suspension may result in serious injury or death. Use trauma relief straps to reduce the effects of suspension trauma.

Labels

OPERATION

To adjust handle extension, loosen knurled knob, slide handle in or out to desired position and tighten knurled knob firmly.

Rotate handle in a clockwise direction to raise load or counter-clockwise to lower load. Always keep a firm grip on handle and use a smooth motion when operating winch.

Load will remain stationary when force is removed from the handle. If handle continues to rotate or load moves without user input, cease operation and immediately remove device from service.

Warning! Avoid contact with sharp edges or abrasive surfaces. Never walk under load. Always read and follow the user manual with the equipment at time of shipment from the manufacturer.

Never unwind winch completely. Always leave at least seven (7) turns of cable on the drum. STOP deployment once red colored cable is reached. Failure to do so may result in an unsafe condition.

Grease gears periodically and inspect condition of winch, gears, and cable for wear or damage. A Competent Person must complete inspection every twelve (12) months.

When used in Rescue/Confined Space applications, the winch MUST be used in combination with a complete Personal Fall Arrest System (PFAS) deemed compatible by a Competent Person.

When lifting/lowering personnel a secondary SRL-R (Self Retracting Lanyard with Integral Rescue Capability) must be used in conjunction with this winch.

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Part No:

Lot No:

D.O.M.:

Working Length: 65'

Cable: 65' x 3/16" Galvanized Steel

Cranking Force at Max load: 24 lbs

Weight Capacity (Personnel)

(incl. tools and equipment): One Person - ANSI: 310 lbs / OSHA 420 lbs

Weight Capacity (Material): 550 lbs

Meets Standards: ANSI Z359.4-2013; OSHA 1926.502; 1910.140



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Part No:

Lot No:

D.O.M.:

Working Length: 65'

Cable: 65' x 3/16" Galvanized Steel

Cranking Force at Max load: 24 lbs

Weight Capacity (Personnel)

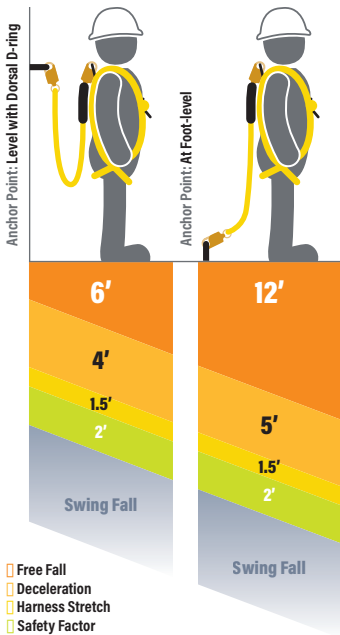
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Weight Capacity (Material): 550 lbs

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Diagram A - Fall Clearance

Fall clearance calculation shown below is based on a standing worker falling directly in-line with anchor point. **SAMPLE CALCULATION ONLY. ALWAYS REFER TO CONNECTOR INSTRUCTIONS FOR PRODUCT-SPECIFIC CLEARANCE INFORMATION.**



⚠ WARNING! Eliminate Swing Fall whenever possible! If swing fall exists, always account for additional fall clearance.

Diagram B - Connections

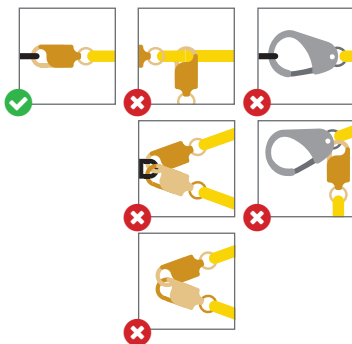
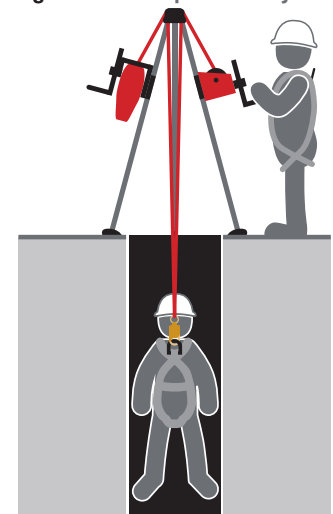


Diagram C - Backup Retrieval System





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