

USER INSTRUCTION MANUAL WINCH

THESE INSTRUCTIONS APPLY TO THE FOLLOWING MODEL:
UFT531130

Compatible with Kstrong Tripod model: UFT510010



Do not skip this instruction manual. Read the instruction manual carefully before using the equipment. If failed in doing so it may cause serious injury or Death.

NOTE: The User is advised to keep the user instructions documents for the life of the product.

This manual must be read and understood in its entirety and used as part of fall protection training program as required by OSHA or any state regularity agency. These instructions are intended to meet the manufacturer instructions as required by ANSI Z359.4-2013. The user must fully understand the proper equipment use and limitations.

⚠ WARNING: This product is to be used as part of a complete system. The user must follow the manufacturer's instructions for each component of the complete system. These instructions must be provided to the user of this equipment. Manufacturer's instructions must be followed for proper use and maintenance of this product. Alterations or misuse of this product, or failure to follow instructions may result in serious injury or death.

Important: Before using this equipment record the product identification information from the label on the winch in the inspection and maintenance log of this manual. This manually operated winch is rated for a 300 lbs. load capacity only.

DESCRIPTION:

KStrong Winche:

- **UFT531130 (50 ft. to 130 ft.):** Comes with Galvanized Steel wire rope of 1/4" diameter.

Note: UFT531130 comes with an INDEPENDENT REEL MODE for quick and easy installation of the Winch.

APPLICATIONS:

- **Purpose:** This winch is to be used for personnel riding, material handling or rescue and evacuation. This winch model is to be used with a tripod or other support structure, and may be used in situations where personnel or materials need to be raised or lowered 50 feet to 130 feet.
- **Winch Application Types:**
 - **Personnel Riding:** The KStrong winch is used to raise or lower a worker to a work level. At the work level the worker is no longer supported by the winch. It is recommended that the worker be connected to a backup arrest system while being raised or lowered.
 - **Rescue and Evacuation:** The KStrong winch is used to raise or lower an endangered or injured worker or to rescue personnel. Applications include permit and non-permit confined space entry work.
- **Limitations:** The following application limitations must be considered before using this product. Failure to observe product limitations could result in serious injury or death.
 - **Installation:** The winch must be installed in accordance with the requirements stated in this manual.
 - **Capacity:** The maximum working load for this product is 300 lbs.
 - **Personal Fall Arrest Systems:** Personal fall arrest systems used with the KStrong winch must meet applicable state and federal regulations.
 - **Physical and Environmental Hazards:** Use of this equipment in areas with physical or environmental hazards may require additional precautions to reduce the possibility of damage to this equipment or injury to the user. Hazards may include but are not limited to: high heat (welding or metal cutting), acidic or caustic chemicals, corrosive environments such as exposure to sea water, high voltage power lines, explosive or toxic gases, moving machinery or sharp edges. Contact KStrong if you have questions about the application of this equipment in areas where physical or environmental hazards are present.

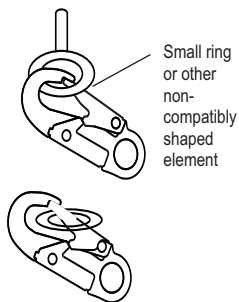
- **Training:** This equipment is to be installed and used by persons who have been trained in its correct application and use.
- Refer to national standards, including; ANSI, local, state, and OSHA requirements for more information on the application of this and associated equipment.

SYSTEM REQUIREMENTS:

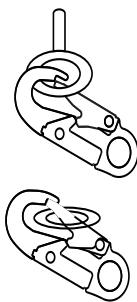
- **Compatibility of Components:** KStrong equipment is designed for use with KStrong approved components and subsystems only. Substitutions or replacements made with nonapproved components or subsystems may jeopardize compatibility of equipment and may effect the safety and reliability of the complete system.
- **Compatibility of Connectors:** Connectors are considered to be compatible with connecting elements when they have been designed to work together in such a way that their sizes and shapes do not cause their gate mechanisms to inadvertently open regardless of how they become oriented. Contact KStrong if you have any questions about compatibility.
Connectors (Hooks, carabiners, and D-rings) must be capable of supporting at least 5,000 lbs. Connectors must be compatible with the anchorage or other system components. Do not use equipment that is not compatible. Incompatible connectors may unintentionally disengage. Connectors must be compatible in size, shape, and strength. Self-locking snap hooks and carabiners are required by ANSI Z359.12 and OSHA.
- **Making Connections:** Only use self-locking snap hooks and carabiners with this equipment. Only use connectors that are suitable to each application. Ensure all connections are compatible in size, shape and strength. Do not use equipment that is not compatible. Ensure all connectors are fully closed and locked:
 - To a D-ring to which another connector is attached.
 - In a manner that will not result in a load on the gate.

Unintentional Disengagement (Roll-Out)

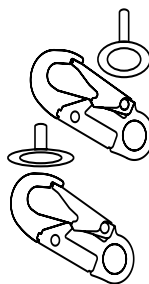
If the connecting element like a snap hook (shown) or carabiner attached is undersized or irregular in shape, a situation could occur where the connecting element applies a force to the gate of the snap hook or carabiner. This force may cause the gate (of either a self-locking or a non-locking snap hook) to open, allowing the snap hook or carabiner to disengage from the connecting point.



1. Force is applied to the snap hook.

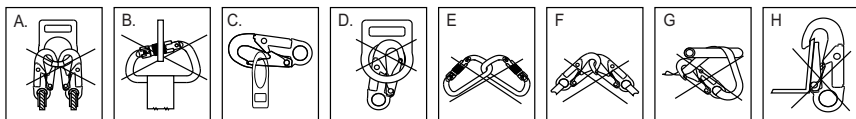


2. The gate presses against the connecting ring.



3. The gate opens allowing the snap hook to slip off.

NOTE: Large throat-opening snap hooks should not be connected to standard size D-rings or similar objects which will result in a load on the gate if the hook or D-ring twists or rotates. Large throat snap hooks are designed for use on fixed structural elements such as rebar or cross members that are not shaped in a way that can capture the gate of the hook.



- Directly to webbing or rope lanyard or tie-back (unless the manufacturer's instructions for both the lanyard and connect specifically allows such a connection).
- To any object which is shaped or dimensioned such that the snap hook or carabiner will not close and lock, or that roll-out could occur.

OPERATION AND USE:

⚠ WARNING: Do not alter or intentionally misuse this equipment. Consult KStrong when using this equipment in combination with components or subsystems other than those described in this manual. Some subsystem and component combinations may interfere with the operation of this equipment. Use caution when using this equipment around moving machinery, electrical hazards, chemical hazards, and sharp edges.

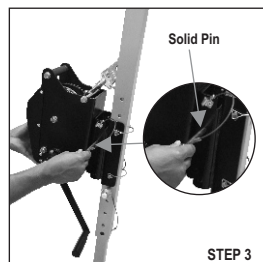
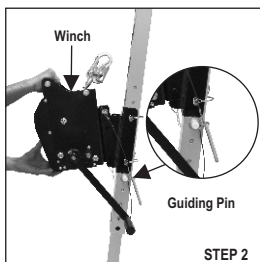
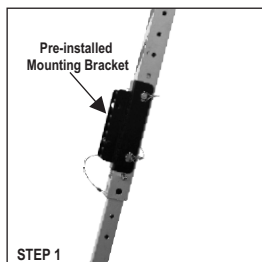
⚠ WARNING: Consult your doctor if there is reason to doubt your fitness to safely absorb the shock from a fall arrest. Age and fitness seriously affect a worker's ability to withstand falls. Pregnant women or minors must not use a KStrong winch, unless for unavoidable emergency use situations.

- **Before each use:** Before each use of this equipment carefully inspect it to ensure it is in good working condition. Check for worn or damaged parts. Ensure all parts are present and secure. Check operation of winch; ensure that it will lift, lower, and hold the load under normal operation. Check winch and entire system for damage and corrosion. Do not use if inspection reveals an unsafe condition.
- **Inappropriate Connections:** Plan your system and how it will function before starting your work. Consider all factors that affect your safety during use. Some important points to consider when planning your system are:
 - **Hazard Evaluation:** Evaluate job site hazards prior to starting work. Consult applicable OSHA and industry standards for guidelines and regulatory requirements on issues such as confined space entry, personal fall arrest systems (PFAS), and single point adjustable suspended scaffolds.
 - **Work Site Geometry:** The installation and use of the support structure (Tripod and base) must be consistent with the geometric requirements stated in the associated manufacturer's instruction manuals. When suspending working lines from the support structure, check for obstructions or sharp edges in the work path. Avoid working where the user may swing and hit an object, or where lines may cross or tangle with that of another worker.
 - **Secondary or back-up Fall Arrest System:** When using the winch as a support for work positioning, a secondary or back-up fall arrest system is required. The KStrong tripod has provisions for connection of a secondary or back-up PFAS.
 - **Rescue:** A means of dealing with an accident or emergency must be planned in advance. Response time can play an important role in the survival of an injured worker. Users of this equipment must be trained in emergency procedures.
- **Requirements for Personal Fall Arrest Systems:** PFAS used with the KStrong winch and support structure must meet applicable OSHA requirements. The PFAS should be rigged to minimize any potential free fall and never allow a free fall greater than 6 feet. It is recommended that the PFAS used with this equipment include a full body harness as the body support component. PFAS that incorporate full body harnesses must maintain fall arrest forces below 1800 lbs. and arrest the fall within 42 inches. Body belts, unless incorporated into a full body harness, are not recommended for use with this equipment. A typical PFAS includes a full body harness, connecting subsystem or component (self-retracting lifeline or lifeline and rope grab), and the necessary connectors to couple the system together. Anchorages selected for PFAS must sustain static loads applied in the directions permitted by the PFAS of at least: (A) 3600 lbs. when certification exists (see ANSI Z359.1 for certification definition), or (B) 5000 lbs. in the absence of certification. When more than one PFAS is attached to an anchorage, the anchorage strengths set forth in (A) and (B) must be multiplied by the number of PFAS attached to the anchorage. Per OSHA 1926.500 and 1910.66: Anchorages used for attachment of a PFAS shall be independent of any anchorage being used to support or suspend platforms, and must support at least 5000 lbs. per user attached, or be designed, installed, and used as part of a complete PFAS which maintains a safety factor of at least two, and is supervised by a qualified person.

⚠ WARNING: Read and follow manufacturer's instructions for the personal fall arrest equipment selected for use with the winch and support structure.

Important: Body belts are not allowed for free fall situations. Body belts increase the risk of injury during fall arrest in comparison to a full body harness. Limited suspension time and the potential for improperly wearing a body belt may result in added danger to the user's health.

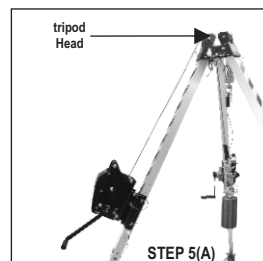
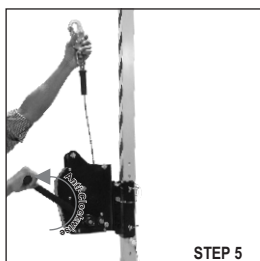
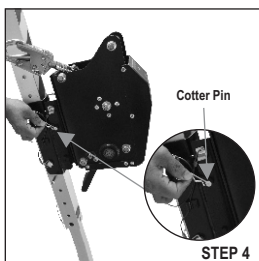
INSTALLATION OF WINCHES (UFT531130):



STEP 1: Locate the tripod leg that has the pre-installed mounting bracket for installing the winch.

STEP 2: Place the winch over the pre-installed mounting bracket.

STEP 3: Now use solid pin for locking the winch on the pre-installed mounting bracket of tripod leg.



STEP 4: Lock the solid pin on the mounting brackets using the cotter pin.

STEP 5: Pull out the handle of the winch and rotate it counterclockwise to release the steel wire. Continue to rotate the handle to release the steel wire. Keep on releasing the wire until you are able to release enough length such that it can pass over the pulleys of the tripod head [Refer to Step 5(A)] and be suspended vertically downwards.

TRAINING:

- It is the responsibility of the user to ensure they are familiar with these instructions, and are trained in the correct care and use of this equipment.

INSPECTION:

- Frequency:**
 - Before each use:** Visually inspect the winch for its proper functioning.
 - Monthly:** A formal inspection of the winch should be done by a competent person other than the user. Record results in the equipment record table.
 - Annually:** It is recommended that the winch be serviced by a factory authorized service center or the manufacturer. Extreme working conditions may require increasing the frequency of inspections. Annual servicing shall include, but not be limited to, an intensive inspection and cleaning of all internal and external components. Failure to provide proper service may shorten product life and could endanger performance.
- After an impact:** Inspect the entire winch.


⚠ WARNING: If the winch has been subjected to impact forces, it must be immediately removed from service and inspected. If the winch fails to pass the inspection, do not use. The equipment must be sent to an authorized service center for repair.

Important: Extreme working conditions (harsh environment, prolonged use, etc.) may require increasing the frequency of inspections.

MAINTENANCE, SERVICING & STORAGE:

- Periodically clean the exterior of the winch using water and a mild detergent solution. Clean labels as required. At least twice a year, clean and lubricate the wire rope. Do not use solvents to clean the wire rope as they will remove internal lubrication. Lubricate wire rope using a cloth (wearing gloves) and a light machine oil.
- Rated Working Load 300 lbs.
- Wire Rope Type 1/4" inch diameter, 7x19 galvanized Steel.

LABELS



Model: UFT531130

Barcode

Batch No.: xxxxx
 Serial No.: xxxxx
 Working Length: xxxxx
 Material of Lifeline: Galvanized Steel Wire Rope
 Ø1.4" (Construction 7x19)
 DOM: XXXXXXXXXX
 Rated Load: 300 lbs.
 Complies with ANSI Z359.4-2013 and OSHA Regulations

⚠ WARNING

Read manufacturer's instructions carefully supplied with this product at the time of shipment. Instructions must be followed for proper use, maintenance and inspection. Use only with an OSHA/ANSI compliant fall arrest or restraint systems.

Use this product for lowering or raising a person requires use of a backup fall arrest system by that person.

There must be direct communication with the person being hoisted at all times.

Avoid contact with sharp edges and abrasive surfaces.

Always keep the lifeline taut, and don't allow slack.

Make only compatible connections.

ANY ALTERATION, ABUSE OR MISUSE OF THIS PRODUCT VOIDS THE WARRANTY.

Inspection:

User must inspect the product before each use. Every 6 months a competent person must complete final inspection of the product and record initials.


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How to Use:

Install the hoist on the Tripod with suitable bracket. Unreel the lifeline to connect it to the user's harness by rotating the handle in the counterclockwise direction.

To raise the load, rotate the handle in the clockwise direction. To lower the load, first rotate clockwise to release the brakes, and then rotate the handle in the counterclockwise direction to lower the load.

Force required to operate rescue when device loaded to full capacity:
 27 lbs./121 N

 Read User's Manual Carefully Before Use

Made in India

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DISCLAIMER: Prior to use the end user must read and understand the manufacturer's instructions supplied with this product at the time of shipment and seek training from their employer's trained personnel on the proper usage of the product. Manufacturer is not liable or responsible for any loss, damage or injury caused or incurred by any person on grounds of improper usage or installation of this product.

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