



SAFEWAZE

USER INSTRUCTION MANUAL

MATERIAL WINCH



This instruction manual
applies to the following models:

019-11009 - 65' Material Winch



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.

225 Wilshire Ave SW, Concord, NC 28025 (800) 230-0319

www.safewaze.com

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 Z117.1-2016, **OHSA 1910.146**. The user must fully understand the proper equipment use and limitations.

These Instructions apply to the following Models:

019-11009

This manual is intended to meet industry standards, including OSHA and ANSI and should be used as part of an employee training program as required by OSHA.

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. The 019-11009 **Safewaze** Manually Operated Winch is classified by Underwriters Laboratories, Inc. as to 300 lbs. load capacity only.

1. DESCRIPTION:

SAFEWAZE Material Winches are used primarily by those working in confined spaces (both permit and non-permit).

This Material winch is designed for the hoisting and lowering of material only. This winch is not to be used for the entry / egress of personnel into, or out of, confined spaces.

This Material Winch is constructed with a steel frame, steel gears, steel shaft, and a steel winch handle. The body of the winch is powder coated steel, with a composite plastic primary gear cover. The wire rope provided in the winch is 3/16" diameter, 7x19 galvanized steel. The frame of the winch is bolted to a bracket which mates to a separate bracket, pre-installed onto one of the tripod legs.

2. APPLICATIONS :

□ **Purpose :** The 019-11009 winch is to be used for lowering and raising material in and out of confined spaces. These winch models are to be used with a Tripod, or other support structure, and may be used in situations where materials need to be raised or lowered up to 65ft.

The operator of the Material Winch must maintain constant contact with, and direct the cable and materials, into and out of the confined space.

□ **Winch Application Types :**

□ **Material Handling :** The **Safewaze** winch is used to raise or lower material to a work level. At the work level the material is no longer supported by the winch. It is recommended that the workers be clear of the material staging area while materials are raised or lowered.

□ **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 620 lbs. (281.22 kg).

□ **Personal Fall Arrest Systems :** Personal fall arrest systems used with the **SAFEWAZE** 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 seawater, high voltage power lines, explosive or toxic gases, moving machinery or sharp edges. Contact **Safewaze** 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.

3.0 SYSTEM REQUIREMENTS :

- Capacity: The structure used for material handling must be able to support a static load of 2,500 lbs or 4:1 safety factor applied in all directions permitted by the system.
- Compatibility of Components : **Safewaze** equipment is designed for use with **Safewaze** approved components and subsystems only. Substitutions or replacements made with non-approved components or subsystems may jeopardize compatibility of equipment and 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 **Safewaze** if you have any questions about compatibility.
Connectors (Hooks, Karabiners, and D-rings) must be capable of supporting at least 5,000 lbs. (23kN). Connectors must be compatible with the anchorage or other system components. Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage. Connectors must be compatible in size, shape, and strength. Self locking snap hooks and karabiners are required by ANSI Z359.12 and OSHA.
- Making Connections : Only use self-locking snap hooks and karabiners 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 would result in a load on the gate.

Note : Large throat opening snap hooks should not be connected to standard size D-rings or similar objects which results 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.

- In a false engagement, where features that protrude from the snap hook or carabiner catch on the anchor and without visual confirmation seems to be fully engaged to the anchor point.
- To each other.
- Directly to webbing or rope lanyard or tie-back (unless the manufacturer's instructions for both the lanyard and connector specifically allows such a connection).
- Unintentional Disengagement (Roll-out) :

If the connecting element, that a snap hook (shown) or carabiner attaches to, 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.

- 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.

4.0 OPERATION AND USE :

Warning : Do not alter or intentionally misuse this equipment. Consult **Safewaze** 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 **Safewaze** 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, davit arm 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 **Safewaze** Tripod/K-Pod 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 **Safewaze** 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's that incorporate full body harnesses must maintain fall arrest forces below 1,800 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) 3,600 lbs. (16kN) when certification exists (see ANSI Z359.1 for certification definition), or (B) 5,000 lbs. (23kN) 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 5,000 lbs. (23kN) 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.

5. INSTALLATION STEPS FOR WINCH 019-11009:

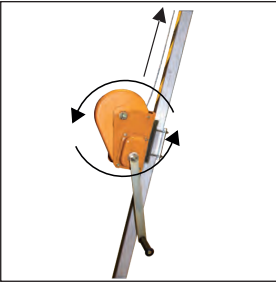


STEP 1: Place the winch on the pre - installed fixture plate of the Tripod.

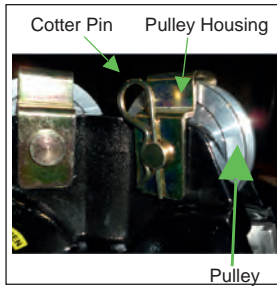
STEP 2: Seat the hook of the winch bracket plate onto the cross bar of the Tripod Bracket.

STEP 3: Insert the Locking Pin into the pre-drilled holes in the winch bracket plate and Tripod Bracket.

STEP 4



STEP 5



STEP 6



Winch and Tripod now ready for use



STEP 4: Rotate the handle of the winch counter-clock wise to release the steel wire. Keep on releasing till you are able to release enough length such that it can pass over the pulleys of the Tripod and get suspended vertically downwards.

STEP 5: Remove the cotter pins, Pulley Housing, and pulleys from the top of the tripod. Drop the snaphook and cable down through the open top on the tripod and re-install the Pulleys, Pulley Housings, and Cotter Pins.

STEP 6: Ensure that the winch cable is routed over, and seated on the pulley.

6. 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.

7. INSPECTION :

- **Frequency :**
 - Before each use : Visually inspect the Winch for 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.
 - Annual: 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 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.

8. 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: 620 lbs. (281.22 kg)

Wire Rope Type 3/16 inch diameter, 7x19 galvanized Steel.



019-11009

www.safewaze.com
(800) 230-0319

65' MATERIAL WINCH

COMPLIES WITH: ANSI: Z117.1-2016 OSHA: 1910.146
Material Capacity: 620lbs (281kg)

INSERT MFG DATE AND SERIAL # HERE

⚠ WARNING USER MUST READ AND FOLLOW INSTRUCTIONS SUPPLIED WITH THIS EQUIPMENT AT TIME OF SHIPMENT. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY OR DEATH. AVOID CONTACT WITH HAZARDS INCLUDING, BUT NOT LIMITED TO, HEAT, CHEMICALS, ELECTRICITY, AND SHARP OR ABRASIVE EDGES AND SURFACES. MAKE ONLY COMPATIBLE CONNECTIONS. REFER TO INSTRUCTIONS FOR APPROPRIATE INSTALLATION AND CONNECTION METHODS.

⚠ INSPECTION User must inspect the unit prior to each use. A Competent Person must perform an inspection of this unit at least annually. If equipment fails inspection IMMEDIATELY REMOVE FROM SERVICE. Refer to the user instruction manual for complete inspection procedures.

⚠ INSTALLATION Attach the winch as specified in the user instructions. User must ensure that the cable end connector is properly attached to the load. Rotate the handle of the winch counter clockwise to lower the material, and rotate clockwise to raise material. Winch operator must maintain a minimum of 15 lbs on the winch cable at all times while in use. Winch operator must remain in visual or audible contact with personnel in a confined space at all times. This winch is designed for lowering and hoisting MATERIAL only. Do not use this winch for lowering or hoisting personnel. Refer to users manual for complete installation and use details.

**DO NOT
REMOVE
LABEL**

INSPECTOR	1	2	3	4	5
DATE					

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LIFESPAN: The estimated product Lifespan of this product is 10 years from the date of manufacturing. The following factors can reduce the Lifespan of the product : intense use, contact with chemical substances, specially aggressive environment, extreme temperature exposure, UV exposure, abrasion, cuts, violent impacts, bad use or maintenance.

DISCLAIMER: This information on the product is based upon technical data that SAFEWAZE obtained under laboratory conditions and believes to be reliable. SAFEWAZE does not guarantee results and take no liability or obligation in connection with this information. As conditions of end use are beyond our control it is the user's responsibility to determine the hazard levels and the use of proper personal protective equipment. Persons having technical expertise should undertake evaluation under their own specific end-use conditions, at their own discretion and risk. Please ensure that this information is only used to check that the product selected is suitable for the intended use. Any product that is damaged, torn worn or punctured should be immediately discontinued from usage .

EQUIPMENT RECORD				
Product				
Model & type/Identification		Trade Name		Identification number
Manufacturer		Address		Tel, fax, email into use
Year of manufacture		Purchase Date		Date first put into use
Other relevant information (e.g. document number)				
PERIODIC EXAMINATION AND REPAIR HISTORY				
Date	Reason for entry (periodic examination or repair)	Defects noted, repairs carried out and other relevant information	Name and signature of competent person	Periodic examination next due date



225 Wilshire Ave SW
Concord, NC 28025

Phone: (800) 230-0319 Fax: (704) 262-9051

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