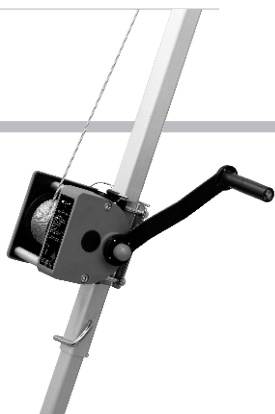


FRONTLINE

FALL PROTECTION

USER INSTRUCTION MANUAL



WINCH



**This instruction manual
applies to the following models:**

RUG60, RUG130

**Compatible with FRONTLINE MEGAPOD
TAN07 & TAN10**

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 document for the life of the product.

Manufacturer	:	www.frontlinefall.com
Certification Body	:	SATRA Technology Europe Ltd, Bracetown Business Park, Clonee, Dublin D15 YN2P Ireland (Notified Body 2777)
Ongoing Assessment Body	:	SGS United Kingdom Ltd., Unit 202B, Worle Parkway, Weston-super-Mare, BS22 6WA, UNITED KINGDOM. (Notified Body 0120)

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 OHSA 1910, ANSI Z 359.1-1992, ANSI Z17.1-1995 The user must fully understand the proper equipment use and limitations. If failed in doing so it may cause serious injuries of death.

Warning: This product is to be used as a part of the complete system. The user must follow the manufacturer's instructions for each component of the complete system for proper use and maintenance of this product.

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. RUG60/RUG130 are manually operated winches by FRONTLINE and are classified by underwriters laboratories, Inc. as to the 300 lbs. load capacity only.

1. DESCRIPTION:

FRONTLINE Winches:

- RUG60: 60 feet of 3/16" Galvanized Steel Wire Rope
- RUG130: 130 feet of 3/16" Galvanized Steel Wire Rope

2. APPLICATIONS:

- **Purpose:** FRONTLINE winches are to be used for personnel riding and material handling or rescue and evacuation. These winch models are to be used with a tripod, or other support structure, and can be used in situations where personnel or materials need to be raised or lowered 60-130 feet.
- **Winch Application Types:**
 - **Personnel Riding and Material Handling:** The FRONTLINE winch is used to raise or lower a worker to a work level. Please note at the work level the worker is no longer supported by the winch hence, It is recommended that the worker must be connected to a back-up arrest system while being raised or lowered.
 - **Rescue and Evacuation:** The FRONTLINE winch is used to raise or lower an endangered or injured worker, or rescue personnel. Applications include permit and non-permit confined space entry work.

3. LIMITATIONS:

The following application limitations must be considered before using this product. Failure to observe the same 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. (136 kg).
- **Personal Fall Arrest Systems:** Personal fall arrest systems used with the FRONTLINE 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 that additional precautions be taken 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), acid or caustic chemicals, corrosive environments such as exposure to seawater, high voltage power lines, explosive or toxic gases, moving machinery or sharp edges. Contact FRONTLINE 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.

4. SYSTEM REQUIREMENTS:

- **Compatibility of Components:** FRONTLINE equipment is designed for use with FRONTLINE approved components and subsystems only. Substitutions or replacements made with non approved components or subsystems may jeopardize compatibility of the 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 FRONTLINE if you have any questions about compatibility.
Connectors (hooks, carabiners, and D-rings) must be capable of supporting at least 5,000 lbs. (22.2kN). 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 carabiners are required by ANSI Z359.12 and OSHA.

5. OPERATION AND USE:

WARNING: Do not alter or intentionally misuse this equipment. Consult FRONTLINE 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.

Consult your doctor if there is any 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.

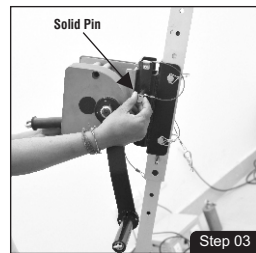
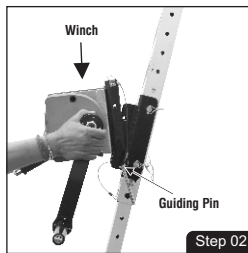
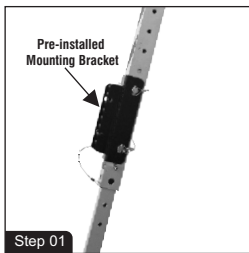
Pregnant women or minors must not use a FRONTLINE winch, unless for unavoidable emergency use situations.

- **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 FRONTLINE 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 FRONTLINE 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. (22.2kN) 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. As per guidelines from OSHA 1926.500 and 1910.66, Anchorage used for attachment of a PFAS must be independent of any anchorage that are used to support or suspend platforms, and must support at least 5,000 lbs. (22.2kN) per user attached, or it should 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.

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.

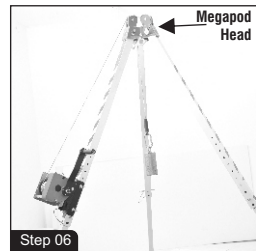
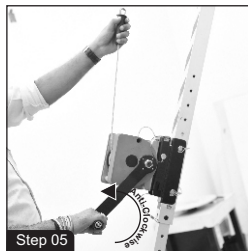
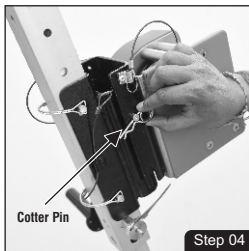
6. INSTALLATION OF FRONTLINE WINCH RUG60/RUG130 ON MEGAPOD TAN07 & TAN10 :



STEP1 Locate the megapod leg that have pre-installed mounting bracket for installing the winch.

STEP2 Place the winch on the mounting bracket of the megapod leg and insert the guiding pin into the slot.

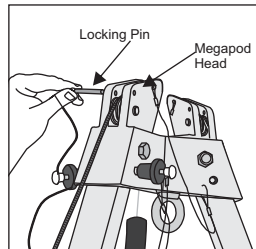
STEP 3 Use solid pin for locking the winch on pre-installed mounting bracket of megapod leg.



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

STEP 5 Pull out the handle of the winch outside and rotate it anti- 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 6 At the head of megapod, lock the wire using locking pin; doing so restricts the unwanted movement of the wire during usage. For reference please refer below line drawing.



7. **TRAINING:** It is the responsibility of the user to assure that they are familiar with these instructions, and are trained in the correct care and use of this equipment.

8. **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.

9. **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.



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 FRONTLINE obtained under laboratory conditions and believes to be reliable. FRONTLINE does not guarantee results and takes 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 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, email into use
Year of manufacture		Purchase Date		Date first put into use
Other relevant information (eg. 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

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