9.0 INSPECTION AND MAINTENANCE LOG :

SERIAL NUMBER:	
MODEL NUMBER:	
DATE PURCHASED:	DATE OF FIRST USE:

INSPECTION DATE	INSPECTIONS ITEMS NOTED	CORRECTIVE ACTION	MAINTENANCE PERFORMED
Approved by:			
Approved by:			
Approved by:			
Approved by:			
Approved by:			
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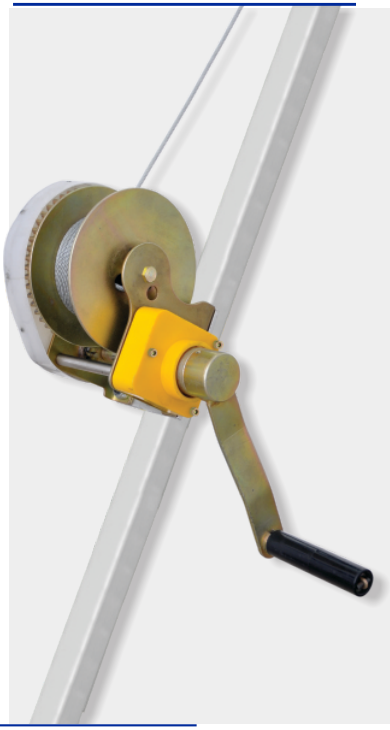
Approved by:			

GENERAL WORK PRODUCTS LLC 4912 MEHURIN STREET JEFFERSON, LA 70121

WINCH

INSTRUCTION MANUAL

Ref. No.: CS817



THE INSTRUCTIONS APPLIES TO THE FOLLOWING MODELS :

CS817.

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.

GENERAL WORK PRODUCTS LLC 4912 MEHURIN STREET JEFFERSON, LA 70121

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 Z117.1-1995 The user must fully understand the proper equipment use and limitations.

The Instructions applies to the following MODELS :
CS817

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 CS817 Palmer Safety Manually Operated Winches are classified by Underwriters Laboratories, Inc. as to the 300 lbs. load capacity only.

DESCRIPTIONS :

Palmer Safety Winches :

(I) CS817 : 60 feet of 3/16" Galvanized Steel Wire Rope

1.0 APPLICATIONS :

1.1 Purpose : Palmer Safety winches are to be used for personnel riding, material handling or rescue and evacuation. These winch models are 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 60-100 feet.

1.2 Winch Application Types :

A. Personnel Riding : The Palmer Safety 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 back-up arrest system while being raised or lowered.

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.

7.0 MAINTENANCE, SERVICING, STORAGE :

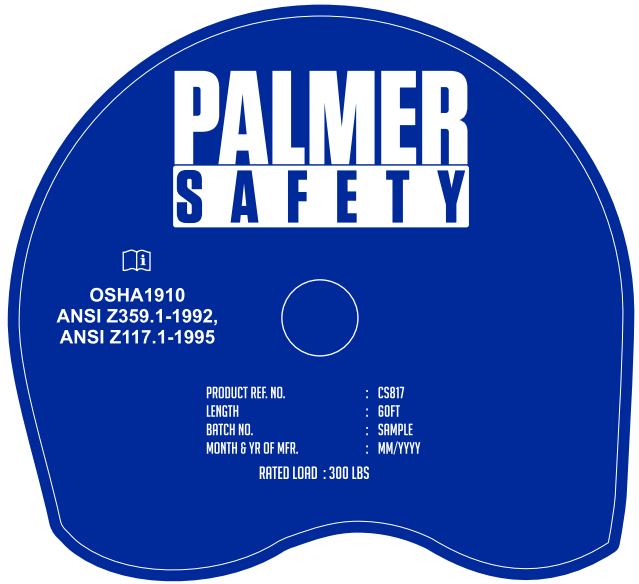
7.1 Periodically clean the exterior of the winch using water and a mild detergent solution. Clean labels as required. At least twice a year, clean and lubricate the wire rope. Do not use solvents to clean the wire rope as they will remove internal lubrication. Lubricate wire rope using a cloth (wearing gloves) and a light machine oil.

Rated Working Load 300 lbs.

Wire Rope Type

3/16 inch diameter, 7x19 galvanized Steel.

8.0 LABELING :



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 a llowed 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.

4.4 Installation :

Step-1:

- Place the Winch on to the Winch Holding Plate on the Tripod.
- The four holes in the steel housing of the Winch should be aligned with the holes on the Fastening Plate of the Tripod.

Step-2: Insert the Winch guide pin into the Winch holding bush. This Allows easy installation of the Winch by only one person.

Step-3: Insert the four fasteners into the Winch fastening plate of the Tripod.

Step-4:

- Tighten the fasteners using the Allen key of 10 mm provided with the Kit.
- Follow a Diagonal Sequence to tighten the fasteners.

Step-5: Pull out the Holding handle attached to the winch.

Step-6: Pull out the Holding handle attached to the winch Fastening Plate.

Step-7: Untie the string on the Wire and release the Karabiner (generally attached to the loop of the Stainless Steel Wire).

Step-8: Now, Rotate the handle anti-clockwise.

Step-9: Keep on releasing the wire till you are able to release enough length such that it can pass over the pulleys of the tripod and gets suspended vertically downwards.

Step-10: Now, to secure the wire, insert the two locking pins into the holes provided in Tripod Cast Head.

Important : Position the winch and support structure in a location which allows the operator to safely use the winch.

5.0 TRAINING :

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

6.0 INSPECTION :

6.1 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 inspection and maintenance log in section 8.0.

B. Rescue and Evacuation : The Palmer Safety 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.

2.0 Limitations : The following application limitations must be considered before using this product. Failure to observe product limitations could result in serious injury or death.

A. Installation : The winch must be installed in accordance with the requirements stated in this manual.

B. Capacity : The maximum working load for this product is 300 lbs. (135 kg).

C. Personal Fall Arrest Systems : Personal fall arrest systems used with the Palmer Safety winch must meet applicable state and federal regulations.

D. 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 Palmer Safety if you have questions about the application of this equipment in areas where physical or environmental hazards are present.

E. Training: This equipment is to be installed and used by persons who have been trained in its correct application and use.

1.4 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 :

3.1 Compatibility of Components : Palmer Safety equipment is designed for use with Palmer Safety 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.

3.2 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 Palmer Safety if you have any questions about compatibility.

Connectors (hooks, carabiners, and D-rings) must be capable of supporting at least 5,000 lbs. (22kN). 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. See Figure 3. Connectors must be compatible in size, shape, and strength. Self locking snap hooks and carabiners are required by ANSI Z359.12 and OSHA.

3.3 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.

A. To a D-ring to which another connector is attached.

B. 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 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.

C. 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.

D. To each other.

E. 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.

F. 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 Palmer Safety 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 Palmer Safety winch, unless for unavoidable emergency use situations.

4.1 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 :

4.2 Planning : 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:

A. 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.

B. 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.

C. 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 Palmer Safety Tripod/K-Pod has provisions for connection of a secondary or back-up PFAS.

D. 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.

4.3 Requirements for personal Fall Arrest Systems : PFAS used with the Palmer Safety 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. (22kN) 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. (22kN) 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.