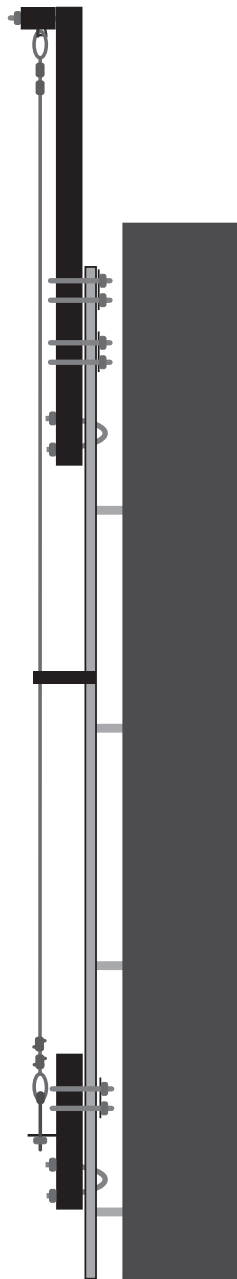




# SAFEWAZE

## Safewaze FS983 Cable Safety Climb System Ladder Mount Instructions



**WARNING!** YOU MUST READ AND FULLY UNDERSTAND OR HAVE THESE INSTRUCTIONS EXPLAINED TO YOU BEFORE USING THIS EQUIPMENT. FAILURE TO OBSERVE THE LIMITATIONS, CAUTIONS, AND WARNINGS IN THESE INSTRUCTIONS COULD RESULT IN SEVERE PERSONAL INJURY.

Equipment users must be fully trained in and conversant with all regulatory requirements applicable to the workplace in which the fall protection equipment is to be used. If in doubt, contact your local OSHA office for clarification. These instructions are not a substitute for a formal climbing and Fall Protection Training Program. Such training should include information about local circumstances, rules and regulations applicable to the work situation, a hands on opportunity to learn how to wear and attach equipment properly, instructions about adequate anchor points and the proper techniques for securing and connecting lanyards, drop lines or lifelines, and guidance and demonstration on how to inspect and maintain the equipment.

**SYSTEM REQUIREMENTS:** SAFEWAZE Cable Safety Climb Systems are designed to meet the performance requirements of ANSI A1 4.3 for personnel fall arrest on fixed ladders. It utilizes a 3/8" solid core cable with swaged cable ends to provide an anchorage capable of maintaining a 5,000 lb. tensile load. Cable stand-offs are provided with systems over 25 ft. to stabilize and maintain the cable in a good operable condition.

**NOTE:** This Cable Safety Climb is intended to be used as part of a complete personal fall protection system. All components, subsystems and connectors should be compatible and meet the appropriate OSHA/ ANSI requirements for the intended application. Substandard or non-approved components could compromise the reliability of the system and jeopardize the safety of the user.

**KNOW YOUR WORKPLACE:** Assess the workplace for hazards such as heat, flames, chemical, electrical, environmental, sharp objects, moving equipment, unstable/uneven or slippery surfaces. Identify the potential hazards and plan the installation to avoid dangerous paths, obstructions and zones. Have an emergency rescue/contingency plan in place in the event that an accident may occur.

## **LADDER MOUNT INSTALLATION: START AT THE TOP AND WORK YOUR WAY DOWN**

- A) Before the last ladder or tower section of the installation is set, attach top Upright Mast to the top/center of ladder rungs with one of the supplied "U" Bolts and Clamp Plates. Secure nuts on bolts per the following guidelines for maximum security  $3/8-16 = 15 \text{ ft.} - \text{lbs.}$  and  $1/2-13 = 20 \text{ ft.} - \text{lbs.}$  Make sure that mast is square and centered to the ladder.
- B) Remove bolt from top Upright Mast cable connection point. Attach Shackle to the thimble/swaged end of cable that is intended for connection to the top bracket. Slide the Shackle into the slot where the bolt was removed. Re-insert the bolt into the Upright Mast cable connection point ensuring that the bolt goes through the Shackle. Thread nut onto bolt of rear of mast and tighten until secured. Allow cable to hang freely from the top mast down the face of the ladder.
- C) Climbing down the ladder Attach a Cable Stand-off (Part# FS-EX3516) every 25 ft. with the supplied "U" bolt and insert cable into slot. ANSI Z359.16 section 3.1.2.1 requires a Cable Stand-off (Guide) every 40' in a ladder system. SafeWaze recommends using them every 25'-30'. Systems shorter than 30 ft. do not require a Cable Stand-off. User should ensure the length of the system required prior to ordering as cable Stand-off's are a separate part number and not part of a standard system order. When purchasing a system please indicate how many guides you wish to have included in the kit, or order them separately.
- D) Once Cable Stand-off's are installed (if necessary), secure the bottom bracket to the lower most rungs of the ladder utilizing the other supplied "U" Bolt and remaining Clamp Plate. Ensure that the supplied eye-bolt included with the system is installed with the "eye" of the bolt oriented towards the top of the ladder.

- E) With Anchor Eye Bolt fully extended up, thread cable through the eye bolt and loosely Attach Cable back to itself using the supplied fist grips. Pull on free end of cable to take as much slack out of line as possible and tighten nuts on the fist grips.
- F) Tension cable life line by tightening nut on Anchor Eye Bolt This will pull the line taught as the eye bolt is pulled down by the nut threading onto the Eye bolt.
- G) Check security of installation by pulling down on cable to assure the life line has been tensioned. If not, repeat steps E & F until line is taut.

**BEFORE EACH USE:** Inspect installation for obvious miscues from the ground. Points of caution may include one or more of the following: excessive corrosion, loose brackets, etc. If any of these items are encountered and cannot be remedied, climb with extreme caution. A secondary fall protection system may be warranted until the issue can be identified, classified and/or corrected. Also be aware of the current environmental conditions: ice, rain, snow, wind, heat and static electricity, etc. are more prevalent at higher elevations. Assess the potential hazards that these elements represent and plan for a safe climb accordingly. The Cable Safety Climb System is designed for a single user.

**USE:** Cable Safety Climb System should be used in accordance with the FS1119-38 Wire Grab Fall Arrestor instructions. A climb log of the system's use should be kept per the attached form and retained on site. If the system arrests a fall, it should be removed from service and replaced to assure maximum reliability. If this is not immediately feasible, a qualified inspector/climber can make an assessment to the damage and provide short term recommendations.

**CARE:** Inspect system for corrosion, wear, damage and/or defects during each climb. Record findings per the climb log. If system shows any signs of any hazards, contact owners for corrective action immediately. At minimum, an annual or regular scheduled inspection should be made of the Cable Safety Climb System along with the supporting structure to assure if functionality. Depending on the environmental conditions, the system should receive a top coat of paint to prevent damage from prolonged exposure to corrosive elements.

**KEEP THESE INSTRUCTIONS AND RECORDS WITH THE SYSTEM AT ALL TIMES IN A PLACE THAT IS EASILY ACCESSIBLE TO ANY USER.**

**WARRANTY:** This Cable Safety Climb System is warranted against factory defects from materials and/or workmanship for a period of one year from the date of purchase when installed, operated and maintained under normal use considerations. Upon notice and/or returned product, Safewaze will replace and/or repair any item recognized to be non-compliant. This warranty does not cover damage from transit, use/abuse, environmental conditions, vandalism or any issue out of the company's control. Claims for labor, delays or damages are also not covered by this warranty.

**WARNING:** All users of fall protection equipment must be in good health, must not have a medical history of conditions that could be aggravated by a fall, must be mentally fit and must not be under the influence of alcohol or drugs. Inattention to these factors could cause falls, serious injury or death!

**WARNING:** Any component which has arrested a fall should be removed from service and replaced.

**WARNING:** Never alter or use a Safety Climb System that has been altered - this could potentially result in serious injury.

**WARNING:** Do not attempt to repair damaged equipment. Remove from service and replace.

**WARNING:** Discard equipment if there is any evidence of excessive wear, damage, or malfunction.

**ALWAYS BE CAREFUL!** Your safety is important to us. If a situation is questionable, consult a qualified professional for proper procedures or reference appropriate specifications.

# CLIMB INSPECTION LOG

INSTALLATION BY: \_\_\_\_\_ INSPECTED BY: \_\_\_\_\_

INSTALLATION DATE: \_\_\_\_\_

## SCHEDULED INSPECTION DATES

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\_\_\_\_/\_\_\_\_/\_\_\_\_

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\_\_\_\_/\_\_\_\_/\_\_\_\_

DATE	INSPECTOR CLIMBER	REASON FOR CLIMB/USE	INSPECTION NOTES	CORRECTIVE ACTION

# FS1119-38 WIRE ROPE GRAB

(ANSI A14.3, CSA Z259.2.1 & BSEN 353.1)

**WARNING!** YOU MUST READ AND FULLY UNDERSTAND OR HAVE THESE INSTRUCTIONS EXPLAINED TO YOU BEFORE USING THIS EQUIPMENT. FAILURE TO OBSERVE THE LIMITATIONS, CAUTIONS AND WARNINGS IN THESE INSTRUCTIONS COULD RESULT IN SEVERE PERSONAL INJURY.

Equipment users must be fully trained in and conversant with all regulatory requirements applicable to the workplace in which the fall protection equipment is to be used. If in doubt contact your local Safety office for clarification. These instructions are not a substitute for a formal climbing and Fall Protection Training Program. Such training should include information about local circumstances, rules and regulations applicable to the work situation, a hands on opportunity to learn how to wear and attach equipment properly, instructions about adequate anchor points and the proper techniques for securing and connecting lanyards, drop lines or lifelines, and guidance and demonstration on how to inspect and maintain the equipment. End user should have access to these instructions for reference.

**SYSTEM REQUIREMENTS:** The Safewaze FS1119-38 Wire Rope Grab is designed to meet the performance requirements of ANSI A14.3, CSA Z259.2.1 & BSEN 353.1 for personnel fall arrest on fixed ladders. It is intended for use on 3/8" solid core cable system with an anchorage capable of maintaining a minimum of 5000 lbs. tensile load. It is recommended that the FS1119-38 be attached to a full body harness with a front "D" ring with a 2" Self Locking Carabiner/Hook that meets the proper safety requirements. The maximum length of the connector to the wire grab from the harness should not exceed 9 inches.

**NOTE:** This Wire Rope Grab is intended to be used as part of a complete personal fall protection system. All components, subsystems and connectors should be compatible and meet the appropriate OSHA/ ANSI/CSA/EN requirements for the intended application. Substandard or non-approved components could compromise the reliability of the system and jeopardize the safety of the user.

**BEFORE EACH USE:** Inspect mechanism for proper operation by pivoting cams back and forth. Movement should be free and easy without binding. Check units for deformation, defects, corrosion or wear that may affect the free movement and/or operation of the mechanism. Units with signs of any of the above check items should be removed from service and disregarded.

**KNOW YOUR WORKPLACE:** Assess the workplace for hazards such as heat, flames, chemical, electrical, environmental, sharp objects, moving equipment, unstable/uneven or slippery surfaces. Identify the potential hazards and plan the installation to avoid dangerous paths, obstructions and zones. Have an emergency rescue/contingency plan in place in the event that an accident may occur.

## INSTALLATION

- A) Release pull pins by depressing end buttons and remove from unit.
- B) Open unit by pivoting clamp bar assembly away from housing
- C) Attach to cable as shown in Figures A/B with arrow up
- D) Close unit by pivoting cams onto rope, making sure that arrow is pointing up as shown in Figures B/C.
- E) Reinsert pins into housing making sure that ball detent passes through assembly (Figure D).
- F) Check security of pins by trying to remove without releasing button.
- G) Work cams back and forth and run fall arrester up and down to assure functionality and freedom of movement.
- H) Test installation by pulling down sharply on the attachment eye to ensure that the mechanism locks onto the cable.



**A**



**B**



**C**



**D**

## USE

- A) After wire grab has been secured to safety cable, attach to safety harness front D-ring with an approved double locking carabiner/hook. (Installation of wire grab to safety line can take place after harness attachment if desired). Always keep wire grab above user's center of gravity.
- B) To ascend safety cable, climb ladder in a normal fashion with torso centered and close to the mechanism. Wire grab will follow user if under a steady even pull.
- C) If cable system has guides/supports, remove cable from stand-offs as they are encountered and reinsert after passing. **DO NOT REMOVE WIRE ROPE GRAB FROM SAFETY CABLE** to pass over guides, supports, or stand-offs, etc.. unless a secondary OSHA approved attachment is made to the structure (lanyard, rope grab, etc.) prior to doing so.
- D) To descend safety cable, again climb down ladder in a normal fashion with torso centered and close to the mechanism. This will keep the attachment lever up, disengaging the clamping bar and allow the wire grab to freely lead the climber.
- E) If the lever is pulled back past center by leaning back, the clamp bar will engage the cable and the wire grab will lock up. To unlock the mechanism, simply move upward to pivot the lever over center. This will allow the wire rope grab to operate freely.
- F) Always keep a safe distance of 3 ft from potential hazards to avoid contact if a fall occurs.
- G) IF THE WIRE GRAB ARRESTS A FALL, REMOVE IT FROM SERVICE AND REPLACE IT.

## CARE

- A) After use always clean mechanism and lubricate pivot points. Inspect unit for wear, damage and/or defects
- B) If wire rope grab shows signs of excessive wear or a defective condition, remove it from service and replace it.
- C) Keep your wire rope grab/fall arrestor in a safe/dry storage location to prolong its service life and assure its functionality.
- D) Never alter or use a wire rope grab that has been altered. The potential malfunction could result in serious injury or death.

### Component Diagram

