

FRONTLINE

FALL PROTECTION

Installation, Operating, Inspection and Maintenance Instructions Material/Work Winch

Model #: RAW50-US



Warning

You must read and fully understand all instructions, or have all instructions explained to you, before attempting to use this equipment. Equipment must not be installed, operated or inspected by anyone who does not understand this Guide. Failure to observe these instructions could result in serious injury or death. Careless or improper use of this equipment can result in serious injury or death. Training and instruction review should be repeated at regular intervals. If you have any questions regarding these instructions or need additional copies, contact Frontline Fall Protection at: www.FrontlineFall.com or info@FrontlineFall.com

IMPORTANT: THESE INSTRUCTIONS SHOULD BE KEPT WITH THE DEVICE AT ALL TIMES.

IMPORTANT INFORMATION:

Purchased from): _____

Address: _____

City: _____ State _____ Zip _____

Purchase Date: _____

Model Number: _____

Serial Number: _____

Property of:

Keep this information for future reference.

DESCRIPTION:

The Frontline RAW50-US is a Material/work winch which incorporates a primary friction brake system. This winch is designed for raising and lowering materials or small equipment as part of a Frontline confined space fall protection and retrieval system. The winch easily attaches to a Frontline tripod, quadpod or davit using the included mounting bracket with quick insert locking pins. The unit comes with a permanently attached swivel locking snaphook swaged at the end of galvanized cable. The winch may also be used to raise or lower a worker and/or perform rescue operations in OSHA defined confined spaces, i.e. manholes, tanks, vats, etc. ONLY if another means of fall arrest/ rescue, such as the Frontline RAG503W-US is also being used to create a "man-rated" system.

Care should be taken to ensure that all equipment will be clear of electrical hazards and that proper ventilation has been provided in the work area before the worker descends into the confined space. All workers must wear full-body harnesses that comply with OSHA standards, so that an injured worker can be winched up and retrieved through an opening without having another person enter the confined workspace.

Personnel using the retrieval and personnel that may be required to perform a rescue operation must be instructed in the correct use of the system. All operators must read and understand all instructions pertaining to the use of the retrieval system and must be trained in its proper use.

SPECIFICATIONS:

	RAW50-US
Maximum Workload	350 lbs.
Cable Length	50'
Cable Diameter	3/16"
Lifeline Breaking Strength	4200 lbs.
Retrieval Speed	20 ft/min
Gear Ratio	5.5:1
Mechanical Advantage	40/21
Force Applied in Handle Rotation (Mechanical advantage)	9 (40) / 17 (21)
Weight	38 lbs.

TRAINING:

From OSHA 1910.146 (see The Federal Register for the full text)

(g) Training.

(1) The employer shall provide training so that all employees whose work is regulated by this section acquire the understanding, knowledge, and skills necessary for the safe performance of the duties assigned under this section.

(2) Training shall be provided to each affected employee:

(i) Before the employee is first assigned duties under this section;

(ii) Before there is a change in assigned duties;

(iii) Whenever there is a change in permit space operations that presents a hazard about which an employee has not previously been trained;

(iv) Whenever the employer has reason to believe either that there are deviations from the permit space entry procedures required by paragraph (d)(3) of this section or that there are inadequacies in the employee's knowledge or use of these procedures.

(3) The training shall establish employee proficiency in the duties required by this section and shall introduce new or revised procedures, as necessary, for compliance with this section.

(4) The employer shall certify that the training required by paragraphs (g)(1) through (g)(3) of this section has been accomplished. The certification shall contain each employee's name, the signatures or initials of the trainers, and the dates of training. The certification shall be available for inspection by employees and their authorized representatives.

INSTALLATION:

Mounting to Tripod:

The winch is furnished with a mounting bracket and locking pins for attachment to a Frontline tripod. The device can be mounted to any leg of the tripod; position the device on the tripod leg and align the holes in the mounting bracket with the holes in the tripod leg. Secure device with locking pins. Check that pin bearings are completely through bracket and are fully extended. Insert locking clips in holes at end of locking pins. Extend cable out of housing, open pulley by sliding sides in opposite directions, place cable over pulley sheave and close pulley. Attach pulley to snaphook on the head of the tripod. Attach locking swivel snaphook to back D-ring of appropriate full-body harness or shoulder D-rings using a Y-lanyard.

Mounting to Quadpod or Davit:

The winch is furnished with a mounting bracket and locking pins for attachment to a Frontline Quadpod or Davit. The device can be mounted to either of the mounting positions on the quadpod/davit boom; position the device on the boom's mounting block and align the mounting holes on the bracket and block. Secure device with locking pins. Check that pin bearings are completely through bracket and are fully extended. Insert locking clips in holes at end of locking pins. Extend cable out of housing, remove cable retaining pin at end of boom, place cable over pulley sheave and reinsert pin. Attach locking swivel snaphook to back D-ring of appropriate full-body harness or shoulder D-rings using a Y-lanyard.

INSPECTION:

Before each use, inspect the entire unit for any indication of damage, wear or malfunction to include, but not limited to, worn cable or damaged locking snaphook. Remove from service immediately if the unit is damaged, has been subjected to a fall, does not pass pre-use inspection or if the unit has not been inspected by a competent/qualified person within the last 12 months.

DO NOT attempt to adjust, repair or modify Frontline winches; for prompt repair, reconditioning or re-certification, return the unit to Frontline.

Inspect work area:

Inspect and clear the vicinity around the work area of debris and other materials that could cause injuries or interfere with the operation of the device.

Check cable:

Crank all cable out of housing and slowly crank back into the housing. While the cable is retracting, check for cuts, kinks, broken strands, excessive wear, foreign substances or other damage.

Inspect snaphooks and connecting hardware:

Snaphooks and connecting hardware shall not be distorted or have any sharp edges, burrs, cracks, worn parts or corrosion. The snaphook keeper spring shall provide tension to close the keeper in the locked position.

OPERATING INSTRUCTIONS:

1. Unscrew the crank handle from the housing and slide it outward.
2. The handle has two (2) positions, the shortest position requires more force but allows for faster retrieval, the longer positions require less force but may require more time to retrieve the worker. To switch between positions, unscrew the nut in the center of the handle, move the handle to the desired position and reinstall the nut.
3. While maintaining outward tension on the cable, rotate the winch handle clockwise to crank the cable back into the housing. (Raising)
4. To extend the cable for lowering, crank counterclockwise. When cranking the cable out, a minimum of 75 pounds must be on the cable. (Lowering)



CAUTION: Do not crank all of the cable back into the housing or through the pulley. This will cause excessive tension on the cable and may cause equipment damage or personal injury. Should there be excessive tension, attach a minimum weight of 75 pounds to the cable and crank the handle counterclockwise until the pressure is released. When the job is completed, screw the winch handle into the bracket, remove the device from the tripod and store/transport device in its carrying bag.

IF YOU HAVE ANY QUESTIONS CONCERNING THE CORRECT USAGE OF THIS OR ANY FRONTLINE PRODUCT, DO NOT USE, CONTACT FRONTLINE FALL PROTECTION AT:

www.FrontlineFall.com or info@FrontlineFall.com

WARNINGS:

The RAW50-US is a raising and lowering device, **NOT FOR FALL PROTECTION**. An independent fall protection system must be used if used for raising/lowering a worker.

- **DO NOT USE IF:**

- The device appears to be damaged.
- The cable is worn or partially cut.
- The locking snaphook does not function properly.
- The unit has been subjected to a fall.
- The winch does not function correctly.
- The unit has not been inspected by a qualified person within the last 12 months

- **DO NOT** attempt to adjust, repair or modify Frontline winches; for prompt repair or reconditioning, return the unit to Frontline.
- **DO NOT** use steel cable near electrical lines or equipment.
- **DO NOT** attach more than one worker to the device.
- **DO NOT** use for lifting or towing except as described.
- **DO NOT** use as a work positioning device.
- **NEVER** clamp off or stand on cable nor allow cable to become slack during use.
- **NEVER** allow cable to cross under or wrap around the legs, arms, neck or torso of the user or other workers. **Never use this device for raising or lowering of a worker without an independent fall protection system.**

CAUTION: Do not crank all of the cable back into the housing or through the pulley. This will cause excessive tension on the cable and may cause equipment damage or personal injury. Should there be excessive tension, attach a minimum weight of 75 pounds to the cable and crank the handle counterclockwise until the pressure is released. When the job is completed, screw the winch handle into the bracket, remove the device from the tripod and store/transport device in its carrying bag.

Equipment must be inspected before each use; if bent, damaged or if parts have been substituted **DO NOT USE**. Return to Frontline for reconditioning or repair.

Do not try to adjust, repair or modify Frontline winches; for prompt service, please contact: FRONTLINE FALL PROTECTION AT:

www.FrontlineFall.com or info@FrontlineFall.com

RAW50-US

Material/Work Winch 50' Galvanized Steel Cable

NOT FOR FALL ARREST

GENERAL INSTRUCTIONS:

READ, UNDERSTAND and FOLLOW all instructions and cautions provided before attempting to use this device.

DO NOT use this device near electrical lines or equipment.

For use by properly trained personnel only.

Protect line from contact with sharp edges or abrasive surfaces.

Device must only be used for the specific purpose for which it is designed and intended.

The anchorage point to which this device is attached shall be capable of supporting at least 5,000 pounds. Locking type connectors shall be used for connection to anchorage point.

ONE WORKER ONLY. Never use the device to support multiple workers.

ALWAYS visually check that:

1. Each snaphook/connector freely engages the D-ring or anchor point.
2. Keeper is completely closed and locked with each use. **NEVER** rely on the feel or sound of a connector engaging.

CHECK attachment method to make sure it cannot bring pressure on the connector gate in a manner to permit accidental opening.

EMPLOYER: Instruct employees as to proper use and warnings before use of the equipment.

CHECK BEFORE USE:

1. Check lifeline for cuts, kinks, broken strands/fibers, pulled stitches, excessive wear or foreign substances.

2. Snaphooks/connectors shall not be distorted or have any sharp edges, burrs, cracks, worn parts or corrosion. The connector keeper spring shall provide tension to close the keeper in locked position.

NOTICE:

Units that do not pass inspection **MUST BE** immediately removed from service and returned to Frontline for inspection, repair and certification. **ALWAYS** wear gloves when inspecting and handling cable.

DO NOT adjust, repair or modify this device. All repairs must be performed by Frontline.

DO NOT lubricate.

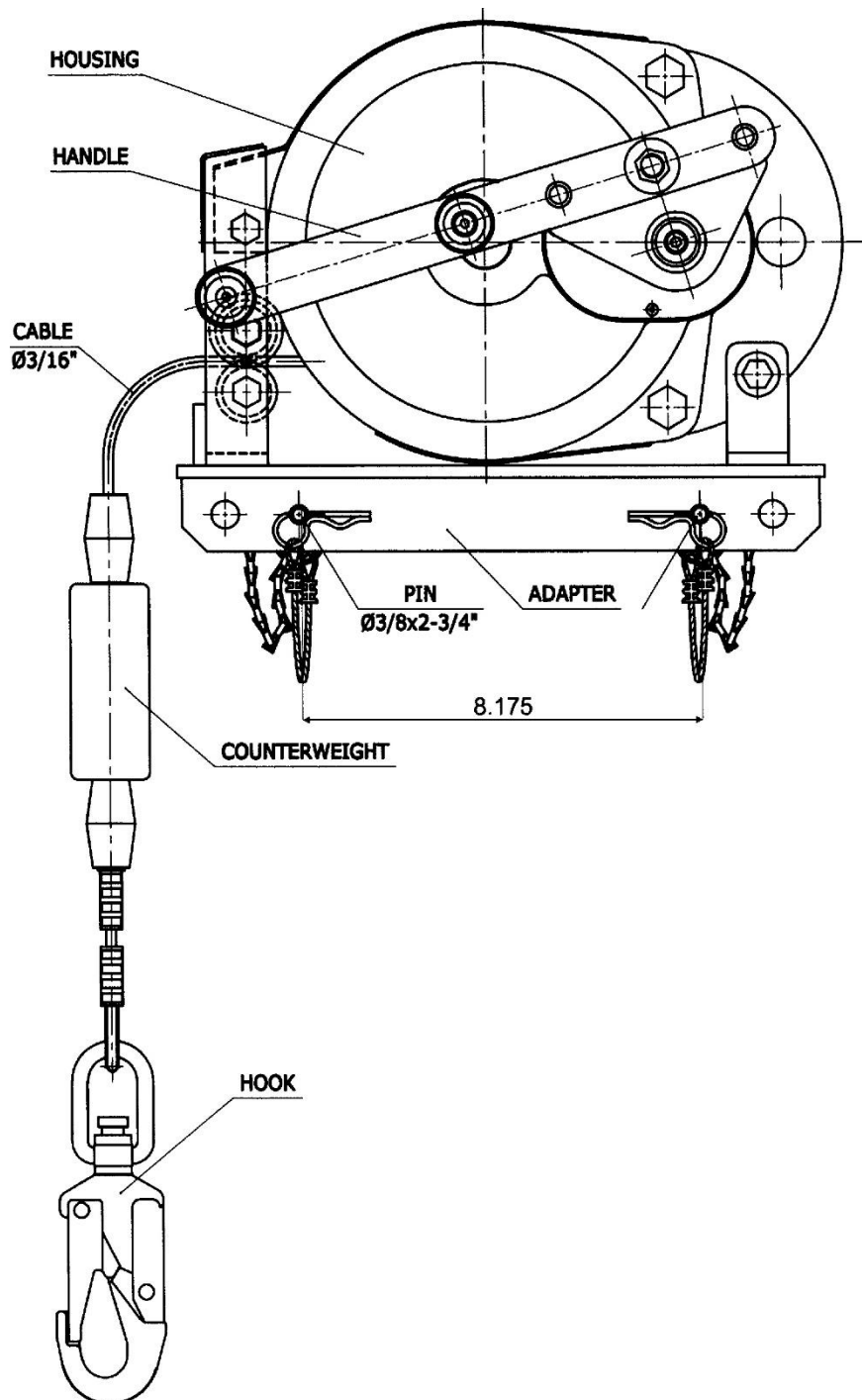
Capacity: Designed for a work load of 350 lbs.

NOTICE: Always use in conjunction with a Fall Arrest device/winch such as RAG503W-US when raising or lowering workers.

FRONTLINE
FALL PROTECTION

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Miami, FL 33122
www.FrontlineFall.com
info@FrontlineFall.com

Made in the USA



INSPECTION LOG:

Model #: _____	
Serial #: _____	
Date of Purchase: _____	
Date of first use: _____	

NOTES:

Frontline Fall Protection

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Malvern, PA 19355

(888) 523-1795

www.FrontlineFall.com - info@FrontlineFall.com