

Sellstrom/RTC® 2756 Extricator®

Installation, Operating & Maintenance Instructions

SM/RTC® 2756 Extricator®

The SM/RTC 2756 Extricator is a self-retracting lanyard and emergency retrieval mechanism. The lanyard is designed to extend as a worker moves vertically down from the unit and retracts automatically when the worker moves back up toward the unit. The retracting feature helps minimize falls often associated with lanyards and other lifelines.



WARNINGS



**To the Receiver,
Contractor, Store
Manager, Safety
Director, Supervisor,
Buyer, or anyone except
the ultimate equipment
users:**

Under Penalty of Law

These instructions are not to be removed except by the user of this equipment. Current instructions must always be available to any potential user. Note: Because of continuous developments in the application and use of SM/RTC equipment and our desire to serve your best interests, these instructions are invalid 10 years after the effective date on these instructions. If you purchase a product, and these instructions are out of date, call SM/RTC Customer Service and request current instructions. Dial toll free (800)323-7402 (U.S. and Canada) or (847)358-2000.

If you have difficulty or experience any problem with SM/RTC equipment or the instructions, call the above toll-free number or (847) 358-2000 immediately and ask the Customer Service Department for assistance.

It is the responsibility of the user's management to review these instructions periodically, and to ensure compliance with every requirement to maintain the system's designed integrity. The equipment purchased is designed to be used as a part of a complete fall protection system and is to be inspected and maintained regularly.

WARNINGS Continued . . .

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WARNINGS



To the Equipment User:
You must read and fully understand or have the following instructions explained to you before using this equipment. Failure to do so could result in serious or fatal injury.

Atencion: Si usted no puede leer el ingles o si usted no comprende estas instrucciones, favor de consultar su director de seguridad o su supervisor.

Attention: Si vous ne pouvez pas lire l'anglais ou si vous ne comprenez pas les instructions, consultez votre directeur de securite ou votre superviseur.

Achtung: Wenn Sie nicht Englisch lesen können und diese Anweisungen nicht verstehen, dann fragen Sie bitte Ihren Sicherheitsdirektor oder Ihren Aufselher.

Attenzione: Se non leggiere l'inglese o non capite queste istruzioni, per favore rivolgete Vi al Vostro Direttore, responsabile della "Sicurezza sul Lavoro" o al Vostro diretto superiore.

You assume complete liability if you fail to follow these instructions and are injured.

A "no" answer to any question on the Safety Checklist on the back page of these instructions, either before or during product use, is an unsafe use of this equipment. Use this equipment only as instructed.

Warning: All SM/RTC equipment should be a part of a complete SM/RTC fall protection or emergency rescue system. If the buyer or user chooses to disregard this warning, he is solely responsible for the safety of the entire system and all users.

Before replacing or adding components to a fall protection or emergency escape system, consult the original manufacturer. Federal OSHA further states that any unauthorized substitution or change to a system by the buyer should be fully evaluated or tested by a qualified person before the new system is put into use (see OSHA 1926.500).

All potential users of this equipment and user's management must read and understand all instructions fully; failure to do so could result in serious or fatal injury.

No fall arrest system can guarantee that you will not sustain injuries if a fall occurs. The most you can expect is that injuries will be substantially reduced. What you can be sure of is that improper use of this equipment will vastly increase your chances of serious injury or death because misuse builds false security. To achieve the maximum level of safety that this equipment is capable of providing, all instructions must be followed diligently. This means careful planning of your application and work method.

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Complete System Components

A complete fall protection system consists of the following components that are arranged to fit the specific work task and control the elevated fall hazard(s):

- **Anchorage**

An anchorage, as defined by OSHA, "shall be independent of any anchorage being used to support or suspend platforms and capable of supporting at least 5,000 pounds per employee attached, or shall be designed, installed and used as follows: as part of a complete personal fall arrest system which maintains a safety factor of at least two; and under the supervision of a qualified person."

For horizontal lifelines it is important to remember that the anchorages must be designed and installed according to the instructions provided using a safety factor of at least two. Anchorages for horizontal lifelines may require anchorage strengths greater than 5,000 lb. Refer to the specific instructions for each horizontal lifeline for anchorage requirements.

- **Body Support**

A body support is the component of a personal fall protection system that is worn on or around the body. Full body harnesses must be used for all fall arrest systems.

- **Connecting Means**

A connecting means is the link between the body support and anchorage. It can be a Shock-Absorbing Lanyard, rope grab, self-retracting lanyard or retrieval system. Connecting means will vary depending on the application.

The user must also have a rescue plan and the means at hand to implement it in the event of a fall.

Note: For continuous protection, more than one system may be needed.

Warning



No other applications or methods of use are allowed without prior written approval.

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1.0 Approved Application

1.1 The SM/RTC 2756 Extricator is designed for fall arrest and vertical retrieval. The path to retrieval must be clear of obstructions. The SM/RTC 2756 self-retracting lanyard is designed for every day use. The winch mechanism however is not designed for continuous use. If the Extricator has been subjected to the force of a fall arrest it must be removed from service. It may be used for reasonable training use but not for continual use and not as a primary winch. (See section 6.0.) Usage of this device must be pre-planned by the user and his supervision for accomplishing the retrieval objective within the capabilities of this equipment and its accessories. Such pre-planned use must be supported by adequate training to meet OSHA requirements.

1.2 Typical Applications of the SM/RTC 2756 Extricator are as follows:

1.2.1 Above Ground: As a self-retracting lanyard and a means of rescue for workers on rigs derricks, roof slopes, towers, vessels, tank cars, bins, silos, quarries, shaft pits and ladders.

1.2.2 Below Ground: As a self-retracting lanyard and a means of rescue for workers in confined spaces such as manholes, tanks and vessels (when connected to a rigid anchorage).

1.2.3 Ladder Safety: As a self-retracting lanyard for workers climbing fixed ladders and temporary ladders in the construction and plant industries.

1.2.4 Two-dimensional Protection: For use in conjunction with an I-Beam Trolley System to provide protection laterally and vertically. (See SM/RTC Instruction #519A.)

1.2.5 Three Dimensional Protection: For use in conjunction with an SM/RTC Sky Anchor to provide protection laterally, vertically, and horizontally. Call SM/RTC for additional information about the Sky Anchor.

Danger



Never use the SM/RTC 2756 for fall protection when working on surfaces that can collapse such as grain, cement, and powders. The device may not sense that you are “falling” and you could sink in and suffocate. A working surface that is stable must be provided for such applications.

Warning!



Do not use with a body belt or chest harness. The Extricator must be used with an SM/RTC Full Body Harness.

1.3 In applications for models with Kevlar fiber, these self-retracting lanyards must be used with special considerations. No use is permitted in the following cases:

Continued . . .

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1.0 Approved Application *Continued*

1.3.1 Welding: The chance for burning holes or cutting fiber rope by melting is too risky. Any application reasonably involving hot contact in excess of 140°F is prohibited.

1.3.2 Glazing: A cutting action across a sharp glass edge could be disastrous. Never use around glass windows or other glass-like panels that could provide a cutting edge with potentially disastrous consequences.

1.3.3 Sharp Edges: Never use where contact of the line with sharp edges or corners is likely during a fall. If the web is speared, a cut in the fiber rope would be disastrous in a fall incident.

1.3.4 Paint and Chemicals: The fiber rope is subject to stiffening and loss of strength. Stiffening will inhibit retraction into the device creating dangerous free fall producing slack which the device has not been designed to accommodate. Loss of strength in the fiber rope may prevent a fall from being arrested. For this reason, any use around paint over-spray, or strong solvents, alkalis and certain strong acids, is prohibited. For acidic environment use, contact SM/RTC for advice.

1.3.5 Prolonged UV light and Radiation Exposure: This may weaken fiber rope if for example the line is left extracted for periods of time outdoors. Prolonged exposure to strong sunlight is not advised because of progressive degradation of the line.

1.3.6 There may be other applications that are inappropriate for this unit. In case of doubt about an application, call SM/RTC.

Warning



Never use the 2756 Extricator with a horizontal lifeline.

2.0 Operating Characteristics

2.1 Braking: The SM/RTC Series Extricator operates on a centrifugal activation (locking) mechanism and a braking mechanism. The activation mechanism consists of two locking pawls and a ratchet wheel. When the cable pulls out of the unit at a speed greater than 4–6 ft/sec, the locking pawls engage the ratchet ring and activate the deceleration mechanism. A disc brake attached to the locking mechanism absorbs the energy generated during the fall, thereby reducing forces on the body. The device remains locked until tension is relieved.

2.2 Retrieval: The rescue winch operates by the manual activation of the winch handle shaft to engage the gear on the drum, thereby enabling lifting or lowering of the victim.

2.3 Reserve Lifeline: Never use the entire length of cable. Always be sure not to use the last 3 feet of cable.

2.4 Standards Compliance: The SM/RTC 2756 Extricator complies with ANSI Z359.1, A10.14, OSHA 1926.500, and 1910.66.

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3.0 Available Models

- **2756-S80** 80' Stainless Steel Lifeline with Emergency Rescue Winch
 - **2756-S110** 110' Stainless Steel Lifeline with Emergency Rescue Winch
 - **2756-S140** 140' Stainless Steel Lifeline with Emergency Rescue Winch

 - **2756-G80** 80' Galvanized Steel Lifeline with Emergency Rescue Winch
 - **2756-G110** 110' Galvanized Steel Lifeline with Emergency Rescue Winch
 - **2756-G140** 140' Galvanized Steel Lifeline with Emergency Rescue Winch
-

4.0 Performance Data and Material Specification

- 4.1** Designed Working Load: 75-310 lb. or one person. Do not use for material handling.
- 4.2** Maximum Arresting Force: 1800 lb. or less in accordance with ANSI Z359.1
- 4.3** Arresting Distance: 42" or less in accordance with ANSI Z359.1
- 4.4** Line Constituent: Line constituent and length are specified by model number:

2756-ABB

A: G = 7x19 Galvanized Aircraft Cable 3/16" Diameter

S = 7x19 Stainless Aircraft Cable 3/16" Diameter

F = Kevlar Fiber 1/4" Diameter

BB = Length of Lifeline in Feet.

Example: A 2756-S80 is a self-retracting lanyard with 80 feet of 7x19 stainless aircraft cable.

5.0 Installation and Attachment

- 5.1** Installation or attachment must be done according to the instructions below and any enclosed diagrams.
- 5.2** Strength: All anchorage must be capable of supporting a minimum of 3,600 lb. when certification exists, or 5,000 lb. in the absence of certification. (See ANSI Z359.1 for definition of certification.) When more than one personal fall arrest system is attached to an anchorage, the anchorage's strengths above shall be multiplied by the number of personal fall arrest systems attached to the anchorage. This requirement is consistent with OSHA requirements which read, "Anchorages used for attachment of personal fall arrest systems shall be independent of any

anchorage being used to support or suspend platforms and capable of supporting at least 5,000 lbs. 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."

Continued . . .

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Installation, Operating & Maintenance Instructions

5.0 Installation and Attachment

Continued

5.3 Connection: The Extricator can be installed in either a suspended mode or on a tripod leg.

5.3.1 Suspended Installation: (See Fig. 1.) A locking SM/RTC installation carabiner can be used to attach the SM/RTC 2756 unit to a suitable, overhead anchorage. See section 5.2 above. Make sure the carabiner is secure and closed completely.

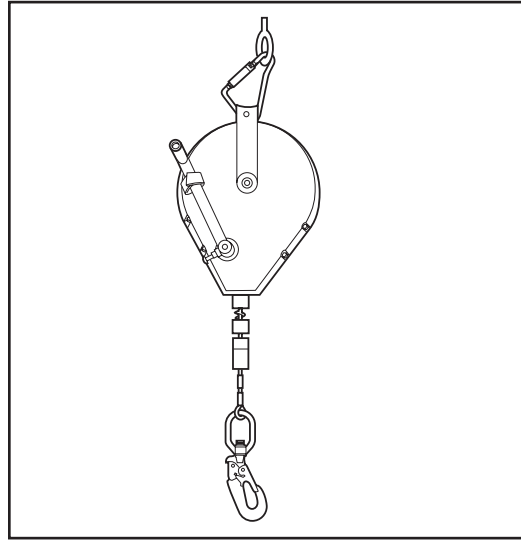


Fig. 1

5.3.2 Tripod Leg Installation: (See Fig. 2.) The Extricator bracket can be used to attach the extricator to the leg of an SM/RTC tripod.

1. Attach the extricator bracket as shown, using pins provided. Secure pins with safety latch.
2. Position extricator in bracket and secure with pin as shown. Secure pin with safety latch.
3. Thread cable through pulley, then attach pulley to tripod mounting bracket at the top of the tripod. (See SM/RTC instruction #572.)

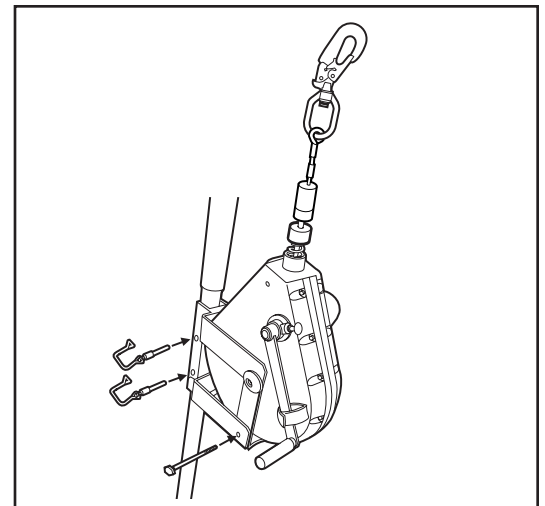


Fig. 2

5.4 Location: The Extricator lifeline must always be taut to prevent free fall. When mounting overhead, select an anchorage that is at least 7' above the walking-working surface so that there is no slack in the cable when connected to the user's full body harness. This type of installation requires special consideration for the use of the retrieval winch.

5.5 Clearance: Allow a minimum of 4½' of clearance below the walking or working surface to the first obstruction. If work is not done directly under the anchorage, additional clearance must be available for additional free fall due to a swing fall.

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6.0 Training

6.1 All training must be conducted under careful and competent supervision. Live hands-on training for all users is essential to help understand the capabilities and limitations of their personal protective equipment. Training also helps promote confidence and should be conducted as an initial introduction as well as periodically for review and additional practice. Also, this instruction booklet should be stored where users can easily review it whenever necessary. Following is a suggested list of training objectives. Training should be site specific and may need to cover more topics than are listed here.

- Recognize fall hazards, and eliminate the hazard where possible.
- Know the parts of a fall arrest system: Anchorage, Body Support, Connection, and Rescue.
- Select the proper equipment for each application.
- Consider environmental and other workplace factors.
- Avoid incompatible connections and snap hook roll-out (burst-out).
- Determine and reduce free fall distances.
- Lower the maximum arresting force.
- Properly fit a harness.
- Select an appropriate anchorage.
- Implement a pre-determined rescue plan.
- Inspect and maintain equipment.
- Understand the limitations and requirements of the equipment.
- Understand the consequences of not following or understanding these instructions.

6.2 All training must be conducted under the supervision of a competent person (See OSHA definition).

Recommended procedure:

1. Set up SM/RTC tripod over manhole of approx. 30" diameter, or other appropriate location. (See SM/RTC instruction # 572)
2. Subject climbs down manhole ladder while attached to SM/RTC 2756 in retracting mode.
3. Trainee rescuer puts SM/RTC 2756 in retrieval mode as directed in 8.7.
4. Trainee then lifts "victim" by steady rotary action, if necessary using both hands. Note: Never allow slack in the cable which could allow free fall while the winch is being used, because the "victim" may be injured and the winch gear teeth will become damaged.
5. Re-stow winch handle as indicated under section 8.7.5.

A cycle of between 5 ft. and 10 ft. should be used for training purposes. After a maximum of 30 cycles the unit must be returned to the factory for inspection and recertification. A record of training cycles must be kept. Call SM/RTC Customer Service to arrange for repair and recertification.

Note: Any free fall may activate the stress indicator. If the stress indicator is activated, the unit must be returned to SM/RTC for repair and recertification.

Note: Overhead suspension method can also be used for shallow manholes. For depths over approx. 10–12 ft., tripod leg mount must be used for a timely rescue.

Warning



Trainee and supervisor rescuer must not be exposed to a fall without protection while in the area of a manhole.

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7.0 Inspection

7.1 All equipment must be inspected visually before each use and at least monthly by a competent person other than the user. Detailed inspection records must be kept. An inspection chart is provided at the end of these instructions for your convenience. Equipment used in harsh environments requires more frequent inspection by a competent person. For example, caustic or acidic environments.

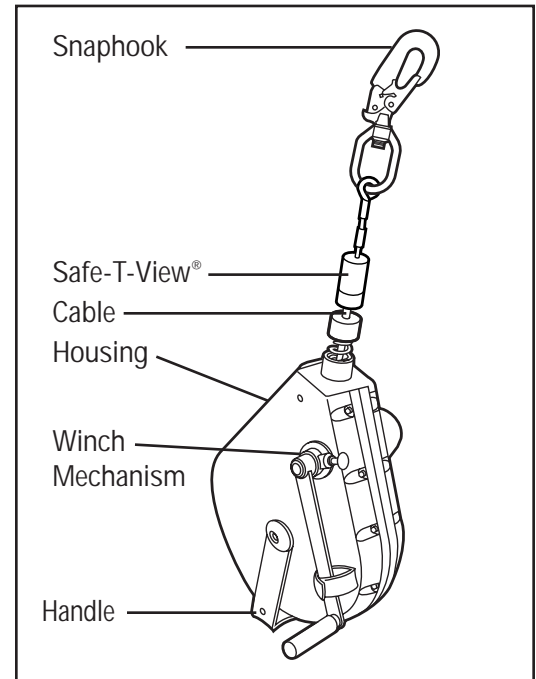
7.2 Corrective Action: If damage is found as described below, remove the item from service immediately and replace it. If any damage or questionable conditions are apparent that are not described below, remove the item from service, mark "DO NOT USE", replace it and call SM/RTC Customer Service for advice.

7.3 Failure to remove equipment that has been damaged or where its condition is questionable, could lead to serious or fatal injury. A detailed record of inspection must be maintained.

7.4 Locking Mechanism: Test the locking mechanism of the device by pulling sharply on the cable. The device should lock quickly and remain locked until the cable is released. The cable should retract smoothly back into the unit.

7.5 Anchorage and Attachment: Make sure the attachment to the anchorage is secure. The structure to which the device is attached should be checked. Make sure it is secure and free from distortion, corrosion, abrasion, cracks or other visible signs of damage. Painting approved anchorages with a bright color can help workers to easily identify where to connect the unit.

7.6 Housing and Handle: The housing on either side of the device should be examined for cracks, dents, distortion, corrosion, abrasion, or other visible signs of damage. Fasteners should be secure.



7.7 Cable: The entire length of cable should be inspected for kinks, broken strands, corrosion, abrasion, or other signs of wear and damage. Swaged terminations should be secure with the thimble tight and not visibly damaged.

7.8 Kevlar Fiber Lifelines: The entire length of line should be inspected for cuts, broken threads, abrasion, and other signs of wear or damage. Any fiber cable with noticeable cuts or abrasions must be removed from service.

7.9 Mounting Bracket and Pins: The mounting bracket and pins should be examined for cracks, dents, distortion, corrosion, abrasion, and other visible signs of damage.

7.10 Snaphooks and Carabiners:

7.10.1 Snaphook and Carabiner Body: All snaphooks and carabiners must operate

Continued . . .

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Installation, Operating & Maintenance Instructions

7.0 Inspection

Continued

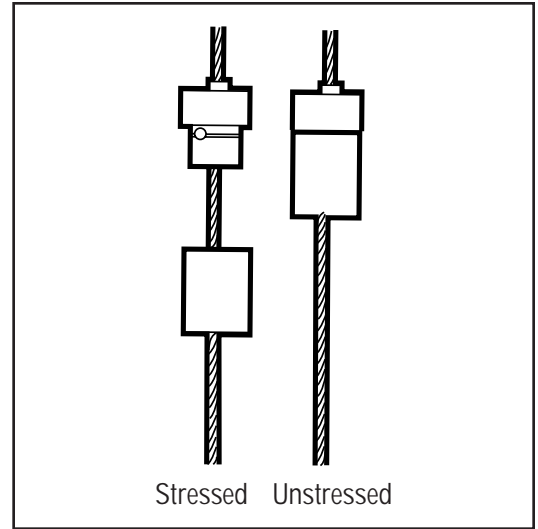
smoothly and open and close completely. Check snaphook or carabiner body for sharp edges, burrs, distortion, cracks, and corroded or pitted surfaces.

7.10.2 Snaphook Rivets: Should be checked for cracks, and broken, loose, or bent conditions.

7.10.3 The snaphook and carabiner gates should be free from distortion and binding, and seat properly against the snaphook or carabiner nose and body when released. Check that gate does not open without depressing the gate keeper toward the back of the snaphook or carabiner body.

The gate and gate keeper spring should be sufficient to completely and firmly close. Carabiners should freely rotate into the locking position when released.

7.12 Safe-T-View® stress indicator: The safety view canister should be intact. If any portion of the warning message is showing, unit must be returned to SM/RTC for repair and recertification.



7.11 Labels: Labels should be secure and legible.

Safe-T-View®



SAFE-T-VIEW®
Stress Indicator

- To be used with SM/RTC self-retracting lanyards and lifelines.
- Opens when a vertical fall occurs or if severely stressed to reveal a normally hidden warning message.
- Observe "STOP" warning label and **DO NOT USE** again.
- Call SM/RTC Customer Service to arrange for repair if warning label is visible.
- Read all SM/RTC 2700 Series Retractable instructions completely.
- For help call (800)323-7402 (US only) or (847)358-2000.



One Sellstrom Drive
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USA

2706VLAB005
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2756 Series
Self Retracting Lifeline &
Emergency Retrieval Unit

Extricator®

Warnings
Improper use or maintenance of this device could result in serious injury or death from falling. Read and follow all instructions provided with equipment at time of shipment before using.

Precaution
L'utilisation ou maintien incorrect de cet appareil peut causer des blessures graves ou la mort en cas de chute. Lisez et suivez toutes les instructions avant d'utiliser l'appareil.

Advertencia
El uso o mantenimiento incorrecto de este aparato podría resultar en heridas graves o muerte al caer. Lea y siga todas las instrucciones antes de usarlo.


Safe-T-View®
This unit is equipped with a Safe-T-View® stress indicator located on the cable near the hook. If the Safe-T-View® is popped open, missing or damaged **DO NOT USE UNIT**. Return to Sellstrom/RTC® for inspection and recertification or repairs.

Cautions
Inspect before each use. Unit must be inspected at least monthly by a competent person. Pull line sharply to ensure device locks. During use, never interfere with the retraction capability of the device. Never allow uncontrolled line retraction. Immediately remove the device from service and call SM/RTC to arrange for inspection and recertification:

- ✓ After an accidental fall
- ✓ If the device does not lock when cable is pulled away sharply
- ✓ If line does not retract fully
- ✓ If device appears damaged
- ✓ If unit has not been inspected in the last month by a competent person
- ✓ If expiration date has past

Line Type	Model#	Line Length (ft.)
<input type="checkbox"/> 3/16" Gal	<input type="checkbox"/> 2756	<input type="checkbox"/> 80 <input type="checkbox"/> 110
<input type="checkbox"/> 3/16" S. Steel	<input type="checkbox"/> _____	<input type="checkbox"/> 140 <input type="checkbox"/> _____

Meets OSHA 1926.550 and 1910.66, Appendix C, and ANSI Z359-1-1992. Maximum arresting force is less than 1800 lbf. Device arrests within 42 inches.



The Technology Leader in Fall Protection Systems™ 2756-VLAB03



2756 Series
Self Retracting Lifeline &
Emergency Retrieval Unit


Extricator®

Cautions

- One worker per device.
- Designed for combined max. weight of worker and tools - up to 310 lbs.
- Anchorage point must be capable of supporting 3,600 lb. when certification exists or 5,000 lb. in the absence of certification.
- See the attached product instructions for permitted applications, and for additional equipment to use with this device.
- Synthetic line can not be used in welding, glazing and painting applications.
- The winch has been designed for emergency use and limited training only. Do not use winch as a primary means of access and retrieval.
- Remove from use if the unit has been used for more than 20 cycles of training use.

Positioning
The SMARTC 2756 series Extricator must be positioned directly over the user's work area to limit swing fall hazard. If a tripod is used as an anchor point, a pulley must be directly over the user to limit the swing fall hazard. The lifelines must be kept taut at all times to prevent free fall.



The Technology Leader in Fall Protection Systems™

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(847) 358-2000
© 1998
2756-VLAB04

Manufacturing Date:
Month: 1 2 3 4 5 6 7 8 9 10 11 12
Year: 98 99 00 01 02 03 04 05

Expiration Date:
Month: 1 2 3 4 5 6 7 8 9 10 11 12
Year: 00 01 02 03 04 05 06 07

Sellstrom/RTC® 2756 Extricator®

Installation, Operating & Maintenance Instructions

7.0 Inspection

Continued

7.13 Full Body Harness: Follow SM/RTC Instruction #569 for proper inspection of body support mechanisms.

7.14 Winch Mechanism: Engage and operate winch mechanism as instructed in paragraph 8.6. Cable should extend and retract smoothly. When finished, stow handle according to 8.6.6.

7.15 All other equipment used in the fall protection system should be inspected thoroughly. See instructions provided with each piece of equipment.

8.0 Operating Instructions

8.1 You must follow these instructions carefully to allow this system to provide you with needed fall protection during the job. If you have any concerns regarding the condition of the system or experience any problems, notify your supervisor or the safety department immediately. Never take any chances.

Danger



Do not use if Extricator does not retract.

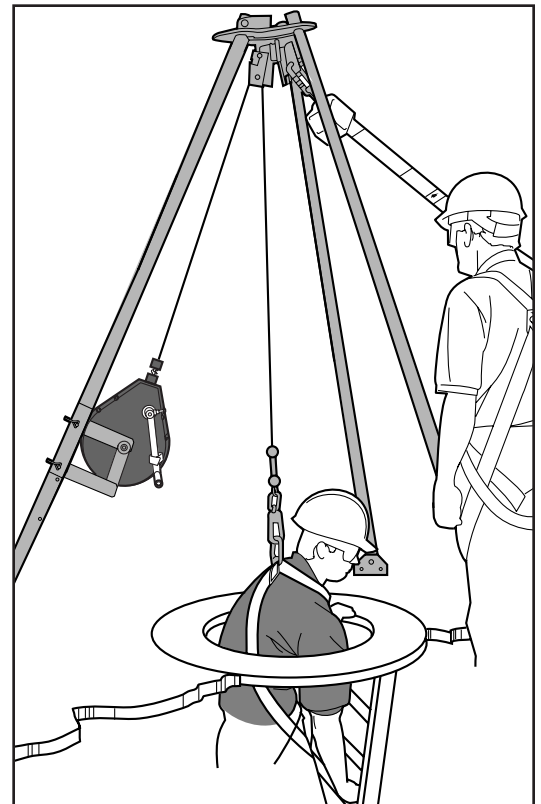
Do not use if Extricator does not lock.

Do not use if the Safe-T-View® has been activated.

8.2 Before each use, test the locking mechanism of the device by pulling sharply on the cable. The device should lock quickly and remain locked until the cable is released. This device works a lot like the seat belt in your car or truck. Do not use the device if it does not lock when pulled sharply.

8.3 Visually inspect the device, cable, hooks, mounting bracket, Safe-T-View, and the anchorage (refer to the inspection section of this instruction for details). Check the inspection log before each use. If the log does not show that a formal inspection has been performed within the last month, remove the Extricator from use and mark it, "DO NOT USE" until a formal inspection is done by a competent person.

8.4 Adjust your harness to fit very snugly (refer to SM/RTC instruction #569 for details). A proper, snug and secure fit can reduce the chances that you will fall out of your harness.



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8.0 Operating Instructions

Continued

8.5 Attach the cable to your back harness D-ring using the SM/RTC 9125 locking snap hook provided at the end of the cable. The snap hook must be attached to the back D-ring that is located between the shoulder blades. Do not use any other D-ring. Other attachment points may be used for retrieval, check the instructions provided with the harness. Attach while at ground or grade level before you are exposed to a fall hazard. Make sure the snap hook closes and locks completely. Any harness used must be in good condition and meet federal OSHA requirements. Check with your supervisor or the safety department if you are not sure. D-rings must have a minimum internal diameter of two inches (2"). No other linkage or method of attachment is allowed. Never connect the Extricator to more than one person. The Extricator is a one-person device.

8.6 After you are connected, work normally with smooth movements. Do not jump across fall hazards. If you move too quickly, the device will lock. If this happens, move toward the device to release the lock and then continue to work. The device should be anchored or attached so that it is overhead when you are working. You must not work in a position where a swing fall could lead to an injury (see illustration and explanation in the warning section of this booklet).

8.7 Operation of the emergency rescue winch:

8.7.1. Pull the hand grips on the retrieval handle and on the opposite side of the housing into place.

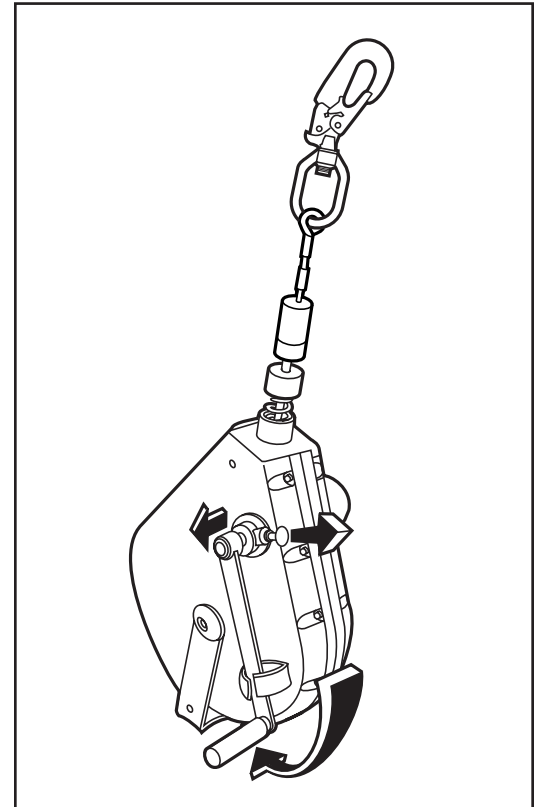
8.7.2. Pull button at bottom outwards. While holding button, pull the handle outwards. When you hear a "click," release the button. This will engage the winch. Note: Due to the tension on the cable, the winch gears may not be aligned to allow immediate engagement. If this occurs, repeat this step and rotate the handle a quarter

turn before pulling the handle mechanism outwards.

8.7.3. Begin winching victim upwards with steady rotary action.

8.7.4. Winch high enough to allow easy grasping of the victim under the arms, then lift gently to resting place next to opening; place solid material over manhole opening or other protection before removing snap hook from harness D-ring.

8.7.5. To re-stow handle after retrieval, reverse point #8.6.2 by pulling button downwards and push winch handle toward unit. Raise handle to vertical position, collapse handhold parallel to winch handle, and attach velcro strip to hold winch handle in place.



Continued . . .

Sellstrom/RTC® 2756 Extricator®

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8.0 Operating Instructions *Continued*

8.8 Important: If you fall, immediately report what happened to your supervisor or the safety department. Remove the item from service, replace it and call SM/RTC Customer Service for recertification or repair. The entire system must be checked by a competent person to make sure it will provide the proper protection for the next person who might fall. Do not delay; it could be you.

8.9 Never interfere with the automatic retraction of the device; do not use the device if the cable has been knotted, badly kinked, or if wire rope clips have been used. Slack cable could result in a long, dangerous free fall.

8.10 You must understand and follow all of the warnings and instructions in this instruction booklet.

8.11 Cable must always be taut to prevent free fall.

8.12 Never allow slack in the cable while in winch mode to prevent free fall. Free fall will damage the gear teeth.

9.0 Maintenance

9.1 Personal protective equipment should be maintained regularly to help be sure that the equipment will operate properly when needed. Failure to maintain and store equipment carefully can result in poor operation that could lead to serious or fatal injury.

9.2 Cleaning: The unit can be wiped down with a clean cloth to remove any dust or dirt. The cable can also be wiped to remove hand grease or dirt.

9.3 Lubrication: Do not lubricate the device! The snap hook may be lubricated with a suitable lubricant that will not attract dirt and grit. (See SM/RTC instruction #574.)

9.4 Mounting Bracket: Mounting bracket can be wiped with a clean cloth to remove any dust or dirt.

9.5 Reconditioning and Repair: There are no user serviceable parts in the Extricator. All repairs must be made by SM/RTC. The equipment must be returned to SM/RTC regardless of the degree of use after two years, or when . . .

- ✓ a fall occurs
- ✓ the unit has been used for 30 cycles of training
- ✓ the Save-T-View® has opened
- ✓ the unit has been used for rescue

Return immediately if no expiration date is shown on the label. Call SM/RTC Customer Service before returning a unit to SM/RTC for inspection or repair.

Sellstrom/RTC® 2756 Extricator®

Installation, Operating & Maintenance Instructions

10.0 Trouble Shooting guide *Continued*

Concern	Probable Cause	Field Action: What to Do
No cable tension. Cable pulls freely out of device.		Remove unit from service. Mark "DO NOT USE". Call SM/RTC Customer Service to arrange for repair or replacement.
Cable retracts jerkily or in spasms while climbing.	Climbing faster than the machine can retract the cable.	Climb evenly in coordination with device rewind function to avoid this. Rewind springs have a certain coil friction to overcome, which is made more obvious when the climb is off center or hardware has been added to the line to effectively counter weight the retraction. Only use SM/RTC supplied hardware, such as snaphooks and/or other SM/RTC accessories. Do not exceed retraction speed when climbing if you do not normally climb at this speed. Check if you are climbing directly under unit. If problem persists, remove unit from service. Mark "DO NOT USE". Call SM/RTC Customer Service to arrange for repair or replacement.
Cable retracts jerkily or in spasms while climbing.	Climbing at an angle not directly under the machine may cause the cable to retract in spasms, or jerk.	Climbing at an angle produces spasmodic rewind and also the possibility of swing fall that could be dangerous. Always keep unit overhead. Consider an SM/RTC horizontal lifeline or rail for this purpose, such as on catwalks or bridges where sideways motion is predictable. If problem persists, remove unit from service. Mark "DO NOT USE". Call SM/RTC Customer Service to arrange for repair or replacement.

Continued...

Sellstrom/RTC® 2756 Extricator®

Installation, Operating & Maintenance Instructions

10.0 Trouble Shooting guide *Continued*

Concern	Probable Cause	Field Action: What to Do
Cable locks too quickly.	Sometimes this is an impression rather than a fact.	Unit should be above head height at all times to avoid swing falls and pulling off-balance. Move fluidly around on job site without jumping or abrupt movement of any kind to avoid unnecessary locking. If problem persists, remove unit from service. Mark "DO NOT USE". Call SM/RTC Customer Service to arrange for repair or replacement.
Cable will pull out fully but will not retract.	Spring or spring rivet is broken. Units should lock normally.	Remove unit from service. Mark "DO NOT USE". Call SM/RTC Customer Service to arrange for repair or replacement.
Unit does not lock.		Remove unit from service. Mark "DO NOT USE". Call SM/RTC Customer Service to arrange for repair or replacement.
Call SM/RTC at 1-800-323-7402 or 847-358-2000 for more information.		

11.0 Warnings

11.1 Failure to observe the warnings below, follow all instructions in this booklet, or seek qualified assistance, can lead to serious or fatal injury.

11.2 Always inspect equipment before each use.

11.3 Never attempt to make any repairs, alterations, or adjustments to SM/RTC equipment. All problems or concerns must be reported to SM/RTC Customer Service.

11.4 Do not interfere with the retraction capability of this device in any way. Do not

knot, clamp, or tape the cable to keep it from retracting back into the unit. The cable must be allowed to retract automatically; otherwise dangerous free falls, swing falls, or collisions with an obstruction, can occur.

11.5 Never allow the cable to retract uncontrolled back into the device. This may cause someone to be hit by the cable or snaphook, or cause damage to other property. This may also internally damage or lock up the device, requiring service. (SM/RTC suggests using a tag-line to prevent such a rewind.)

Continued . . .

Sellstrom/RTC® 2756 Extricator®

Installation, Operating & Maintenance Instructions

11.0 Warnings

Continued

11.6 Use the Extricator only as a passive safety device for fall protection. Never use the Extricator as a restraint or positioning tool. For example, do not lock the device by hand and lean out holding onto the cable to reach an object.

11.7 Use caution when working near electrical hazards.

11.8 Never use the Extricator for fall protection when working on surfaces that can collapse. Examples of this are grain, cement, and powders in tanks and silos. The device may not sense that you are “falling” and you could sink in and suffocate. A working surface that is stable must be provided for such applications.

11.9 In salt and other corrosive environments, stainless steel cable models should be used. Consult SM/RTC for advice on exposure to any chemical or environment that may cause corrosion. Galvanized cable may be replaced with stainless steel cable. Contact SM/RTC Customer Service for more information.

11.10 Do not use the SM/RTC 2752 for load arresting applications.

11.11 Never put the line between your legs or under your arms.

11.12 Never put the cable through an opening, such as a railing, that may fall with you. This device is an independent device meant solely to arrest an individual's free fall when used correctly.

11.13 Never connect the Extricator to more than one person. The Extricator is a one-person device.

11.14 Never use or attach a snaphook to incompatible hardware, to reduce the chance of accidental disengagement (rollout).

11.15 No addition or substitution of any part of an SM/RTC system is permitted without the written approval of SM/RTC.

11.16 Do not use this device in violation of any applicable company, state, or federal, standard or requirement.

11.17 Anyone who has a history of back or neck problems that could be aggravated or complicated by using fall protection equipment must not do so. Pregnant women and minors must not use this equipment. If there is any reason why you may not be physically able to safely absorb the forces subjected in the event of a fall arrest, consult your doctor.

11.18 All users must be in good health and not under the influence of drugs or alcohol.

11.19 Use caution when working around moving machinery.

11.20 Do not use near sharp edges or abrasive surfaces.

11.21 Swing Fall Hazard: Always check for obstructions below your working area to make sure your potential fall path is clear. Work directly under the anchorage at all times.

Swing falls can be controlled in at least two ways. First, an engineered fall protection system can be used to help maintain the anchorage overhead, thereby allowing the fall arrest to occur in a vertical plane. Possible systems include SM/RTC Permacable Horizontal lifelines, SM/RTC Sky

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Installation, Operating & Maintenance Instructions

11.0 Warnings

Continued

Anchor Systems, or SM/RTC I-Beam Trolley Systems. Second, the height of the anchorage can be raised, thereby reducing the angle of the arc and force of the swing.

Important: Carefully review the mobility needed to complete the required work task, including travel to and from the work station. For continuous and complete fall protection, more than one SM/RTC system may be required.

Questions?

If you have any questions about these instructions or about the proper use of any SM/RTC equipment, call SM/RTC Toll Free 1-800-323-7402.

Our Customer Service department is available to answer your questions. If you would like additional explanation or if you experience any problems with SM/RTC equipment, please contact us immediately for assistance.

12.0 Safety Checklist

All operators and users of SM/RTC equipment MUST be able to answer "yes" to all of the following questions before installing or using any SM/RTC equipment:

- ✓ Has all equipment been assembled and installed according to SM/RTC instructions?
- ✓ Has all equipment been visually inspected immediately before use and found to be in good condition and proper working order?
- ✓ Does the anchorage meet SM/RTC and OSHA requirements?
- ✓ Is the equipment suited for the intended work task, including travel to and from, and is it capable of providing continuous protection?
- ✓ Has each user been recently (within 6 months) trained in the proper and safe operation and use of the equipment?
- ✓ Do all users fully understand the instructions and agree to use the equipment safely?

- ✓ Is each person using this equipment in good health, and not under the influence of drugs or alcohol?
- ✓ Has SM/RTC been called (toll free) if you or any other user does not know how to comply with these or any of the requirements of this instruction booklet?

Warning



Do not use SM/RTC equipment if you answer "NO" to any of the questions above!

A negative "NO" answer to any of the questions above could lead to a serious or fatal injury to a user of anyone in the vicinity of use. If you proceed to use the equipment, you may be held personally responsible for not following this warning. If you answered "NO", go back and review these and any other applicable instructions or contact SM/RTC for assistance.

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Installation, Operating & Maintenance Instructions

13.0 Inspection Records

Model No:									
Serial No:									
Mfg. Date:									
Inspection Date:									
Inspector:									
Inspection Points:									
Retracts: Y/N?									
Locks: Y/N?									
Cable/Web									
Swaged Ferrules									
Stitching (if applicable)									
Snap Hook/ Carabiner									
Housing									
Handle									
Stress Indicator									
Labels									
Mounting Bracket (if applicable)									
Carabiner									
Winch Mechanism									
Other System Equipment									
Disposition									

