



Owner's Manual For ProPlus™ Self Retracting Lifelines

Thank you for selecting a ProPlus™ Self Retracting Lifeline! ProPlus™ fall arrest and work positioning equipment is designed by entertainment professionals for entertainment professionals and proudly made in the USA.

This manual is intended to meet the Manufacturer Instructions as required by ANSI Z359.14 and should be used as part of an employee training program as required by OSHA, ANSI Z359.14 Class A and ANSI A10.32 Please read this manual carefully and retain it for future reference.

Caution:

- *This product is part of a personal fall arrest, work positioning, suspension and/or retrieval system. Read, understand, and follow all instructions. Failure to do so may result in serious injury or death.*
- *Do not use unless properly trained. Users should be familiar with and comprehend the OSHA regulations, ANSI standards, and other relevant regulations and standards pertaining to fall hazards; and the selection, use and maintenance of fall protection equipment.*
- *It is the employer's responsibility to ensure that all users are properly trained in the proper use, inspection, and maintenance of Personal Protective Equipment including fall protection equipment.*

Important:

- If you have questions on the use, care or suitability of this equipment, please call (800) 747-7271 or write safety@sapsis-rigging.com.
- Record the Serial Number, Model Number, and Date of Purchase before using the equipment.



800-727-7471 • www.sapsis-rigging.com • sales@sapsis-rigging.com
3883 Ridge Ave, Philadelphia, PA 19132 • FAX: 215-228-0888

General Requirements for Fall Arrest Equipment

- Users shall be provided with all instructions and warnings. These warnings and instructions must be read and understood prior to using the equipment.
- ProPlus™ Self Retracting Lifelines (SRLs) are Personal Protective Equipment (PPE) components used in personal fall arrest systems (PFAS). SRLs are to be used in situations where worker mobility and fall protection is needed. Never use any PPE for purposes other than what it was designed and intended.
- This device must only be installed and used by trained personnel. User must be aware of operating characteristics, application limits, and consequences of improper use.
- Users must be physically and mentally fit, in good health, and must not have a medical history of conditions that could be aggravated by a fall. Users should not be under the influence of alcohol or drugs that may impair their performance. Pregnant women and minors should not use this product.
- Each ProPlus™ SRL conforms to ANSI Z359.14 and A10.32. Users should reference ANSI Z359 standards, OSHA regulations, and any other applicable regulatory standards pertaining to occupational safety.
- All equipment must be inspected prior to each and every use.
- A Competent Person should ensure system compatibility to eliminate the potential for accidental disengagement.
- Equipment should not be altered in any way. Repairs or modifications should be performed only by the equipment manufacturer or persons authorized by the manufacturer.
- Any products exhibiting deformities, unusual wear, deterioration, or not passing inspection should be immediately removed from service.
- Any products subjected to fall arresting forces must be immediately removed from service.
- Fall arrest systems should be rigged to limit the free fall distance to 6' or less and ensure that no lower level is struck.
- Fall arrest systems, when stopping a fall, should limit the exposure of the technician to a maximum arresting force of 900 lbs. or less.
- A rescue plan and the means at hand to implement it when using this equipment is required. We recommend the ProPlus™ Rescue Kit.
- Always check for obstructions below the work area to make sure the potential fall path is clear. Remember that shock-absorbers can elongate up to 3'-6".
- Environmental hazards should be considered when selecting fall protection equipment.
- Equipment should not be exposed to chemicals that may have a damaging effect. Consult the manufacturer if there is any doubt.
- All synthetic materials should be protected from slag, hot sparks, open flames, or other heat sources. Polyester suffers permanent damage at 180°F/82°C
- This product should not be used around moving machinery, electrical hazards, sharp edges, and abrasive surfaces.
- The maximum live load is 310 lbs. unless otherwise labeled. The maximum live load includes the technician, clothing, tools, etc.
- No more than one worker may connect to a single SRL for fall arrest at a time.



Body Wear Warnings

- Fall arrest connecting devices should be attached to the dorsal (upper back) D-ring of a full body harness.
- Sternum (upper front) D-rings may be used for fall arrest but only under specific conditions and only when the fall distance is limited to no more than 2 ft.
- Read, understand, and follow all instructions supplied with equipment to be used with this product.
- Ensure all buckles are properly secured and all straps are connected and adjusted to provide a snug fit.
- Only use a full body harness for fall arrest. Never use a body belt or chest harness for fall arrest.

Connecting Devices Warnings

- **Do** tie off in a manner that will limit the free fall to the shortest possible distance (6 ft max.) and ensure that a lower level will not be struck should a fall occur. Note that shock-absorbers can elongate up to 3'-6". This additional elongation must be considered when choosing a tie-off point location
- **Do not** use lanyards or lifelines with non-locking snaphooks or connectors.
- Always visually check to ensure the snaphooks freely engage the D-ring or anchorage point, and that its keepers are completely closed and locked, and are never load bearing.
- **Do not** attach multiple lanyards or lifelines together or tie them back onto themselves (choke connection) unless they are specifically designed for such a connection.
- **Do not** allow synthetic materials to come in contact with high temperature surfaces, welding, heat sources, electrical hazards, lighting equipment or moving machinery.
- **Do not** tie knots in lanyards and lifelines or wrap them around sharp, rough edges, or small diameter structural members.
- Never tie off to an object that is not compatible. Make sure that snaphook keepers are never load bearing.
- Never allow a lanyard or lifeline to pass under or around the user's arms, legs, torso or head.

Anchorage Warnings

- Anchorages should maintain a minimum tensile strength of 5000 lbs. per worker, or be designed, installed and used as part of system which maintains a design factor of at least 2:1 under the supervision of a qualified person.
- The anchorage point should be compatible with the connecting device (snaphook or carabiner) and should not be capable of causing a load to be applied to the keepers. Never use an anchorage point that will not allow the snaphook or carabiner to close.



Use of Self Retracting Lifelines

- A full body harness with dorsal D-ring should be used with Self Retracting Lifelines (SRL.) Under certain circumstances, the sternum (upper front) D-rings may be used for fall arrest but only when the fall distance is limited to no more than 2 ft.
- NEVER use a body belt for fall protection. See OSHA 1926.502 for guidelines.
- A connector is considered to be compatible with the connecting element when the interlinking parts will not cause the gate mechanism to open or apply force to the gate mechanism regardless of the orientation. Ensure that roll-out cannot occur. Do not use any non-locking snap hooks. Do not use any connector that is not compatible.
- The self retractable lifeline will extend and retract the full length of the lifeline while keeping some tension on the line.
- If a fall occurs, the self retractable lifeline will arrest the fall and absorb much of the energy created during the fall.
- Retractable lifelines, when installed properly, will limit the free fall distance to 2 feet or less.
- Sloped/horizontal applications will greatly affect the free fall distance and should be avoided.
- A swing fall application will also increase the vertical free fall distance and should be avoided.
- Never knot, clamp, or fix the lifeline in a stationary position.
- Do not allow slack in the lifeline.
- The lifeline should be taut between the bottom of the housing and the connection to the user.
- Avoid situations where the lifeline can become entangled with other objects or workers.
- The lifeline should never be allowed to come under, around, or between the user's legs or around any appendage.
- Do not attach a lanyard or other lifeline to the retractable to extend the length of the lifeline.
- Conditions in the surrounding environments can cause damage and may affect the performance of the product. Use in these environments may require more frequent inspections and service. Such environments may include; chemical hazards, elevated temperatures, electrical hazards (always avoid contact with electrical hazards), corrosive environments, etc.
- Do not allow the lifeline to come into contact with anything that will damage the lifeline including sharp, abrasive, or rough; nor high temperature surfaces, welding, heat sources; nor electrical hazards or moving machinery.
- Please contact Sapsis Rigging, Inc. with any questions about free fall distance, hostile environments, or connector compatibility.



Inspection

Important: Fall Protection equipment must be inspected by the worker before each use. Any equipment failing inspection should immediately be removed from service unless deemed useable by a Competent Person.

Important: ProPlus™ Self Retracting Lifelines using wire rope can only be serviced by Sapsis Rigging, Inc.

Important: Any equipment involved in a fall arrest incident should be immediately tagged and removed from service. Consult your employer for further action.

Important: Recommended life expectancy is 5 years from first date of use.

- **Do not** remove the labels.
- **Do not** alter this equipment in any way without written permission from SRI.
- **Do not** use this equipment if it is damaged in any way.
- **Do not** use this equipment if there are any missing parts.
- **Do** have a Qualified Person inspect this device on at least an annual basis. ProPlus™ Self Retracting Lifelines with wire rope can only be serviced by Sapsis Rigging, Inc. Use in abusive environments will necessitate more frequent inspections by a Qualified Person.
- **Do** inspect this equipment thoroughly prior to each use. Check the device and connections for loose fasteners, bent, cracked, distorted, worn, malfunctioning or damaged parts. Check the lifeline for cuts, frays, burns, worn or otherwise damaged areas. Check the working end of the lifeline to insure all stitching is in place and fixed properly with the shock absorber and the locking snap.
- **Do** inspect the lifeline by fully extending it and looking for any damage, cuts, abrasions, wear, frays ore burns. Do inspect the termination of the lifeline to the shock absorber to ensure there are no lose stitches. DO inspect the shock absorber to ensure it has not been deployed and is fully enclosed in the pack. Ensure the gates of the snap are working properly and fully lock and close. Do slowly let all of the lifeline retract into the device. It should retract smoothly and without hesitation.
- **Do** pull out approximately two feet of lifeline. While holding the lifeline above the shock absorber, give the lifeline a sharp, quick pull. The unit should lock up and remain locked up. There should be no slippage of the braking mechanism and no more lifeline will come out of the device. Once tension is released from the lifeline, the unit should return to its retractable mode.
- **Do** Inspect the housing for loose or missing rivets. Inspect the housing for cracks, dents, bends, distortions, or any other damage. The labels and warnings should be fully present and legible. Inspect all connectors for damage and proper function. Housing swivel should rotate. If it is unable to, then the unit has likely been in a Fall Arrest situation.



- **Do** keep a record of any change in condition on the inspection form. A sample inspection form is available at www.sapsis-rigging.com.
- **Do** make sure you have been properly trained in the use of this equipment before you start work.
- **Do** make sure all parts of the equipment are functioning properly and that the stitching in the webbing is complete and intact.
- **Do** immediately remove this equipment from service if it is subjected to a fall.
- **Do** immediately remove from service any item not passing inspection.

Cleaning and Storage of your ProPlus™ Self Retracting Lifeline

Basic care of your ProPlus™ Self Retracting Lifeline will prolong its life expectancy and maintain its high performance. To clean and store:

- **Do** clean periodically, excess dirt or other materials may inhibit the function of the device.
- **Do not** use heat to dry the retractable lifeline.
- **Do** store the retractable lifeline in a cool, clean, and dry environment, out of direct sunlight.
- **Do** inspect the SRL after any prolonged period in storage. Refer to component instructions for proper storage.

WARNING: ProPlus™ Self Retracting Lifelines are not user serviceable. If the SRL has been deemed unusable, either by having sustained fall arrest forces or by failing to pass an inspection, it should be removed from service. SRLs with webbing should be discarded SRLs with wire rope should be returned to Sapsis Rigging, Inc. for inspection and service.



800-727-7471 • www.sapsis-rigging.com • sales@sapsis-rigging.com
3883 Ridge Ave, Philadelphia, PA 19132 • FAX: 215-228-0888