

Part #501152-001

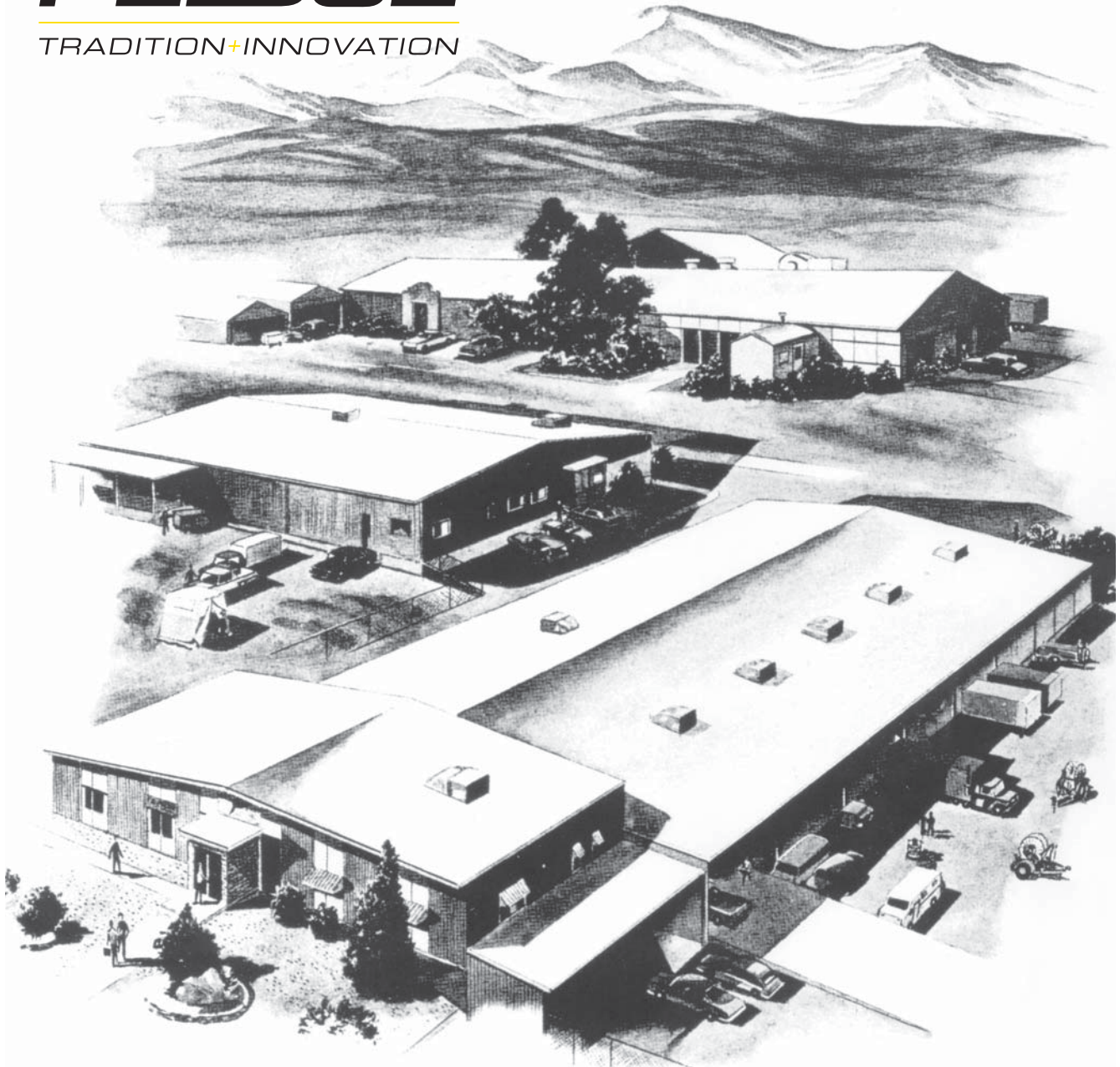
Product Manual:

PSRL1350 Series Fall Arrest & Recovery SRL




PELSUE[®]
ISO 9001 Certified

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Since our inception in 1963 – the T.A. Pelsue Company has designed and manufactured high quality equipment to improve the personnel efficiency and working conditions in various underground, confined, and outdoor areas.

Founded by T. Allen Pelsue, the company has established a continuing reputation for excellence in the production of fine products for a broad spectrum of industry throughout the world.

Now, in our second generation of family direction, continued commitment to innovation and quality makes Pelsue a leading source of equipment for many types of confined spaces. We specialize in safety, retrieval, fall arrest, ventilation, cable placing, splicing, and maintenance nationally and abroad. With more than 70,000 square feet of facilities available, Pelsue continues the dedication that has made us pre-eminent in this field.

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1.0 General Information

1.1 Quality Policy

T.A. Pelsue Company

Quality Policy

OUR GOAL IS THE PURSUIT OF NEVER-ENDING IMPROVEMENT IN PRODUCT QUALITY AND BUSINESS SYSTEMS.

METHODS TO BE EMPLOYED IN ATTAINING THIS GOAL WILL INCLUDE NEW PRODUCT QUALITY PLANNING, EMPLOYEE TRAINING, AND UTILIZATION OF EMPLOYEE INVOLVEMENT GROUPS TO SOLVE PROBLEMS.

IN AN INCREASINGLY COMPETITIVE MARKETPLACE, ENSURING CUSTOMER SATISFACTION IS ONE OF THE DIFFERENTIATORS THAT SETS YOU APART FROM THE PACK AND YIELDS A COMPETITIVE ADVANTAGE.

THEREFORE, WE WILL SUPPORT TOTAL CUSTOMER SATISFACTION BY IMPLEMENTING THE **ISO 9001 QUALITY SYSTEM** AND PROVIDING THE NECESSARY ATMOSPHERE AND TRAINING TO NURTURE THIS CONCEPT THROUGHOUT OUR ORGANIZATION.

WE WILL MAKE EVERY BUSINESS DECISION AS THOUGH THE QUALITY OF THE PART OR SERVICE PROVIDED WAS DESTINED FOR OUR OWN OR OUR FAMILY'S USE. WE WILL ALWAYS THINK **QUALITY FIRST**.

EVERY T.A. PELSUE COMPANY EMPLOYEE IS EXPECTED TO COMMIT TO THIS PHILOSOPHY IN THE PERFORMANCE OF HIS OR HER DAILY TASKS.

QUALITY FIRST!

T.A. PELSUE COMPANY SENIOR MANAGEMENT TEAM

1.0 General Information (continued)

1.2 - Pelsue Product Warranty

PELSUE FALL ARREST/ RETRIEVAL PRODUCT WARRANTY

- Pelsue products are designed and engineered to perform as stated in published specifications. Quality materials and workmanship are used in the manufacture of this product. With regular maintenance and proper care, Pelsue equipment provides many trouble free hours of operation.
- The T.A. Pelsue Company warrants to the buyer that material furnished will conform to specifications and will be free from defects in material and workmanship from the date of shipment to the original buyer, for the period listed by product description at the bottom of this warranty statement.
- In the event of failure of any components of a Pelsue product within the warranty period, service must be pre-approved by the T.A. Pelsue Company and service must be performed by the T.A. Pelsue Company Parts and Service Department in Englewood Colorado, or at the option of T.A. Pelsue Company, service may be performed at any designated service center, which may include any authorized service center for the component manufacture.
- Damage or failure due to misuse, mishandling, or unauthorized modifications will not be covered by this warranty. Unless otherwise agreed, the T.A. Pelsue Company shall repair or replace the defective components within (30) calendar days of notice of failure. T.A. Pelsue Company's obligation hereunder, shall be limited to the repair or replacement of the product or component as set forth above, and shall not include any liability whatsoever for damages caused by such failure, including but not limited to consequential or incidental damages flowing from use or lack of use of product.
- Any replacement, repair, modification, installation or other service performed by the T.A. Pelsue Company shall be warranted by the remainder of the unexpired period of the warranty, or for a period of (90) calendar days, whichever is longer.
- All materials or parts returned for credit or warranty shall be returned only with prior approval, and will be subject to factory inspection before credit is allowed. Parts claimed defective will be replaced upon request and will be invoiced as purchased, subject to credit when the parts claimed to be defective have been received and examined by the factory.
- This warranty is expressly in lieu of all other warranties expressed or implied, including any warranties of merchantability or warranties of fitness for any particular use and all other obligations or liabilities in connection with the sale of this equipment.

<u>Product Description</u>	<u>Warranty Coverage*</u>
• Davits and Bases, Life Guard Systems, Fall Arrest Towers,.....	1 year
Hitch Mounts, Mounting Sleeves	
• Winches.....	1 year
• Winch Cable and Rope (not including standard wear and.....	3 months
tear or misuse or improper storage)	
• Rope.....	3 months
• Pelsue Painted or Plated Surfaces.....	1 year

*From date of shipment to original buyer.

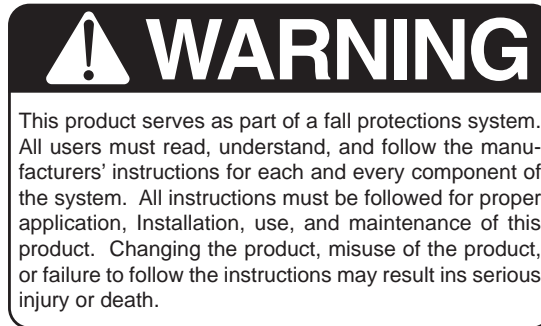
T.A. Pelsue Company, 2500 South Tejon Street, Englewood, Colorado 80110, 800-525-8460

2.0 - Introduction & Product Information

This manual is intended to meet the Manufacturer Instructions as required by ANSI Z359.1 and should be used as part of an employee training program as required by OSHA.

This manual applies to the following Models:

- PSRL1350-SS
- PSRL1350-TR



DESCRIPTION:

The PSRL1350 Series Retractable Lifeline with Emergency Retrieval Capability comes with an auto-locking carabiner and pulley for attaching the working line to the anchor point or retrieval structure. The device also has an impact indicating swivel locking snap hooks for harness connection, and a choice of stainless steel or synthetic rope in lengths of 50 feet.

3.0 - Applications

3.1 PURPOSE

T.A. Pelsue self-retracting lifelines with emergency retrieval capability are components of a personal fall arrest system (PFAS). They are to be used in situations where fall protection is needed and emergency retrieval capabilities may become necessary.

A. FALL ARREST

This device is used as part of a personal fall arrest system, which includes a T.A. Pelsue full body harness and a T.A. Pelsue anchorage connector.

B. EMERGENCY RETRIEVAL

This device can be used as part of an emergency retrieval system, which includes a T.A. Pelsue full body harness and a T.A. Pelsue mounting bracket.

3.2 LIMITATIONS

A. CAPACITY: The self retracting lifeline with emergency retrieval capability is for use by a single person with a combined weight (person, clothing, tools, etc.) of 310 LBS. maximum.

B. FALL CLEARANCE: Proper clearance must be present below the worker to arrest a fall and avoid striking a lower level, obstruction, or the ground. A clear fall path must be present to ensure that the retractable lifeline will arrest a fall.

C. STANDARD USE: The retractable lifeline will extend and retract the full length of the lifeline while keeping some tension on the line. If a fall occurs, the retractable lifeline will arrest the fall and absorb the energy created during the fall. If a fall occurs at the maximum lifeline length, the retractable lifeline is equipped with additional length to allow for full function during the arrest. Always use a tag line when conditions require. Always allow the lifeline to slowly retract into the housing. Avoid swing falls by always working directly under the anchorage. Never work above the anchorage. Do not use if any part of the system does not pass inspection. Do not serv-

3.0 - Applications (continued)

ice this device. Do not allow lifeline constituent (cable/synthetic rope) to come into contact with anything that will damage the lifeline including sharp, abrasive, rough, or high temperature surfaces, welding, heat sources, electrical hazards, or moving machinery. Do not service or lubricate this device. Service is to be performed only by the T.A. Pelsue Company or authorized agents.

D. ENVIRONMENTAL CONDITIONS: 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. Contact the T.A. Pelsue Company with any questions about corrosive environments

E. TRAINING: This equipment must be installed and used by persons trained in its application and use.



4.0 - System Requirements

4.1 PERSONAL FALL ARREST SYSTEM: Pelsue retractable lifelines are designed for use with Pelsue approved components and subsystems only. Other components may be incompatible, which could directly affect the safety and reliability of the entire system. Personal fall arrest components used with this system must meet all applicable OSHA and ANSI requirements. A Pelsue anchorage connector and full body harness are recommended components for this retractable lifeline.

4.2 COMPONENT COMPATIBILITY: Pelsue equipment is designed for use with Pelsue approved components and subsystems only. Substitutions or replacements made with non-approved components or subsystems may jeopardize compatibility of the unit and may affect the safety and reliability of the complete system.

4.3 CONNECTOR COMPATIBILITY: 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. Do not use any connector that is not compatible. Contact the T.A. Pelsue Company if you have any questions about compatibility.

4.4 CONNECTIONS: Connections should only be made using self-locking snap hooks and carabiners, Self-Locking snap hooks and carabiners must have a minimum tensile strength of 5000 LBS. All connections must be compatible in size, shape, and strength. All connectors must be fully closed and locked. Contact the T.A. Pelsue Company if you have any questions about connections. Pelsue connectors are specifically designed to be used according to each product's instructions. Refer to all OSHA and ANSI standards for proper connections.

4.5 ANCHORAGE STRENGTH: The anchorage and anchorage connector used for personal fall arrest equipment shall be independent of any anchorage being used to support or suspend platforms and be capable of supporting at least 5000 LBS. (22.2 kN) per employee attached, or shall be designed, used, and installed as part of a complete PFAS which maintains a safety factor of at least two under the supervision of a qualified person.

5.0 - Installation & Use

! WARNING

Do not alter or intentionally misuse this equipment. Consult the T.A. Pelsue Company when using this equipment in combination with components or sub-systems 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 and sharp edges.

! WARNING

Consult your doctor if there is a reason to doubt your fitness to safely absorb the shock from a fall. Age and fitness seriously affect a worker's ability to withstand a fall. Pregnant women or minors should not use this equipment.

5.1 - Set-Up

BEFORE USE: This equipment must be carefully inspected according to the inspection criteria listed below. 1. With the unit in retractable mode, ensure that the cable extends and retracts smoothly, completely, and easily.

2. Test the fall arrest braking system by pulling out approximately 24 inches of the cable and give it a quick, sharp pull while maintaining pressure on the cable. The cable should lock and not allow any additional cable to come out of the unit.

3. To test the winch mode, maintain a slight downward pressure on the cable, and switch the unit to winch mode. Maintain at least 20 pounds of force on the cable, and winch the cable in and out by turning the crank clockwise and counter-clockwise. The Cable should freely feed in and out of the unit when cranking.

4. Check the winch brake by leaving the unit in winch mode, and pull out on the cable. Cable should not be able to come out of the unit, and the winch handle should not move.

5. Inspect cable. Be sure that the unit is in retractable mode. Pull all cable out of the unit, and while wearing gloves, slowly let the cable retract back into the unit, visually checking for damaged cable and feeling for broken strands with the glove (Figure 5.1).

6. Check the load indicating swivel snap on the end of cable. Be sure that the gate keeper remains locked unless the locking keeper is depressed. Be sure that the red indicator is not showing, as that means that the unit has been impacted and should be removed from service.

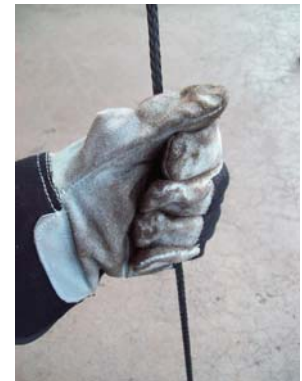


Figure 5.1

! WARNING

If the PSRL1350 series unit does not pass any one of the inspection criteria, remove from service immediately. Contact T.A. Pelsue Company if repairs are needed.

5.2 - Fall Protection Plan & Entry Conditions

FALL PROTECTION PLAN: Plan the use of your system BEFORE installation. Consider all factors that will affect your safety during the use of this equipment. The following points are some of the factors that must be considered.

A. ANCHORAGE: The anchorage selected should be as close as possible to being directly above the work area. The location of the anchorage is very important when considering swing falls and fall clearance, never work above the anchor. The anchorage should be overhead in order to limit free fall and avoid swing falls. The anchorage selected must meet the strength requirements of section 2.5.

B. FREE FALL: Fall arrest systems must be rigged so the free fall distance is never more than 6 feet. Retractable lifelines, when mounted overhead, will limit the free fall distance to 2 feet or less. Sloped/horizontal applications will greatly affect the free fall distance. A swing fall application will also increase the vertical free fall

5.0 - Installation & Use (continued)

distance. Never knot, clamp, or fix the lifeline in a stationary position. Do not allow slack in the lifeline. The lifeline should be taught 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 in an attempt to extend the length of the retractable lifeline. Contact the T.A. Pelsue Company with any questions about free fall distance.

C. AVOID SWING FALLS: A swing fall can occur when the anchorage is not directly above (overhead) the user at the point the fall occurs. The amount of energy generated by a swing fall is related to the distance from the vertical center of the anchorage location. Serious injury can result from striking an object during a swing fall. Swing falls will also increase the free fall distance. Avoid swing falls by working directly below the anchorage location.

D. FALL CLEARANCE: There must be proper clearance in the fall path from striking a lower level or other structures. When mounted directly overhead, the maximum arrest distance of a retractable lifeline is 4-1/2 feet (ANSI Z359). The arrest distance is the total vertical distance required to arrest a fall, including deceleration distance and activation distance. This arrest distance needs to be factored into the clearance distance, which should also include anchorage location, worker height, and safety factor. Contact the T.A. Pelsue Company with any questions about fall clearance.

E. SHARP EDGES: Do not allow the lifeline constituent (cable/synthetic rope) to come into contact with anything that will damage the lifeline including sharp, abrasive, rough, or high temperature surfaces, welding, heat sources, electrical hazards, or moving machinery. The PFAS should be rigged to prevent its contact with hazardous objects in the workplace, which could damage the equipment or prevent its proper functioning.

F. RESCUE: Before a fall occurs, the employer must have a rescue plan and the ability to implement a rescue. The employer shall provide for prompt rescue or the ability of the employee to rescue himself.

G. AFTER THE RESCUE: Any equipment that has been subjected to fall arrest forces must be removed from service immediately. Retractable lifelines must be sent to the manufacturer for repair/recertification. Refer to other equipment instructions for the rest of the PFAS.

ENTRY CONDITIONS: The following are terms and conditions for the use of the PSRL1350 unit.

ENTRY AND EXIT, ONE PERSON, WITH PRIMARY MEANS OF ENTRY/EXIT: The entrant must wear a full body harness snugly as per the manufacturer's recommendations. The attendant will place the PSRL1350 series unit into the retractable mode, then attach the lifeline to the entrant's dee ring located on the center of the back. The entrant will enter the confined space by the primary means of entry (ladder, rungs, etc.). When the work to be done is completed, the entrant shall exit by the primary means of exit. At no time should the winch be engaged to provide general entry or exit operations.

ENTRY AND EXIT, ONE PERSON, WITHOUT PRIMARY MEANS OF ENTRY/EXIT: The entrant must wear a full body harness snugly as per the manufacturer's recommendations. The attendant will place the PSRL1350 series unit back into retractable mode, then attach the snap hook to the entrant's harness dee ring located on the center of the back. The entrant will enter the confined space by means of a secondary winch that is either attached to the entrant's center/back dee ring or to a front, seat dee ring. The entrant must always be attached to the PSRL1350 series unit by the harness back dee ring. When the work to be done is completed, the entrant shall exit the confined space by means of a secondary winch that is either attached to the entrant's center back dee ring or to a front seat dee ring. At no time should the primary PSRL1350 series winch be engaged to provide general entry or exit operations.

ENTRY AND EXIT, MORE THAN ONE PERSON: This type of entry provides for increased hazards. Check to see if additional entry/exit points may be established and used. Although more than one PSRL1350 series unit may be used on a system, only one person at a time may be subjected to fall hazards, potential rescue or rescue procedures. Consult your local manufacturer's representative, or confined space specialist for specific details, suggestions, and regulations that you may encounter.

5.0 - Installation & Use (continued)

RESCUE: At any time, should the entrant fall while entering or exiting, the fall will be arrested by the PSRL1350 series unit. Should the entrant be able to regain footing, and continue on, it should be done. But, should it become necessary to rescue the entrant, the attendant shall proceed with switching the unit to winch mode as described in the “Usage & Functions” section of this manual. The attendant shall now begin rescue procedures by cranking the unit to retrieve the entrant. The attendant shall winch the entrant up to a level in which the waist of the entrant is still in the hole. At this point, the attendant will stop winching, bend at the knees, and lift the entrant onto the lip of the confined space. Once seated, the attendant will crank counter-clockwise to lay the entrant down. The proper rescue authorities may now be summoned as per the confined space entry sheet.

5.3 - Unit Set-Up

RETRIEVAL UNIT/WINCH ATTACHMENT:

1. To attach the PSRL1350 unit to any Pelsue standard quick release platform (Figure 5.3a), the mounting bracket #MB-FSB must be used.
2. First place the slotted end of the mounting bracket onto the bar of the mounting platform (Figure 5.3b). Then insert the pin through the mounting bracket and the mounting platform to fix the bracket to the system (Figure 5.3c). Ensure that the pin passes through to the other side.



Figure 5.3a



Figure 5.3b



Figure 5.3c

3. To attach the PSRL1350 to the mounting bracket (#MB-FSB), angle the unit so that the working line end of the device points towards the slotted hole of the mounting bracket. Pull the working line out so that it can pass through the slotted hole of the mounting bracket. The protruding round end of the device will then insert into the hole of the mounting bracket (Figure 5.3d & 5.3e).



Figure 5.3d



Figure 5.3e

4. Drop down the handle end of the PSRL1350 unit between the two posts at the rear of the mounting bracket. The safety pin must be inserted into the first post, pass through the handle of the PSRL1350 unit, and out the end of the second post. The bail of the safety snap pin should now be snapped in place to secure the unit to the mounting bracket. (Figure 5.3f & 5.3g)



Figure 5.3f



Figure 5.3g

5.0 - Installation & Use (continued)

5. PSRL1350 units are packaged with a pulley and carabiner for attaching the working line to an overhead anchorage point. After the unit has been attached to the system, pass the working line through the split pulley (Figure 5.3h). Attach the carabiner to the pulley (Figure 5.3i) and then attach the pulley and carabiner to the overhead anchorage point of the system.



Figure 5.3h



Figure 5.3i

6. For device removal or system tear down, follow the previous attachment steps in reverse order. The PSRL1350 unit can also be removed from the system while still mounted to the mounting bracket for quick installations or storage (Figure 5.3j).



Figure 5.3j

5.4 - Personnel Attachment

BODY ATTACHMENT: The impact indicating swivel snap hook on the retractable lifeline must be connected to the back dorsal “D” ring of a full body harness. Never use a body belt for fall protection. Ensure that the impact indicating swivel snap is attached to the “D” ring and is fully closed and locked.

5.5 - Usage & Functions

USE: The retractable lifeline will extend and retract the full length of the lifeline while keeping some tension on the line. If a fall occurs, the retractable lifeline will arrest the fall and absorb the energy created during the fall. If a fall occurs at maximum lifeline length, the retractable lifeline is equipped with additional length to allow for full function during the arrest. Always use a tag line when conditions require. Always allow the lifeline to slowly retract into the housing. Avoid swing falls by always working directly under the anchorage. Never work above the anchorage. Do not use if any part of the system does not pass inspection. Do not service this device. Do not allow the lifeline constituent (cable/synthetic rope) to come into contact with anything that will damage the lifeline including, abrasive, rough, or high temperature surfaces, welding, heat sources, electrical hazards, or moving machinery. Ensure connections are compatible in size, shape, and strength and that all connections are secure. The retractable should pull out freely and retract fully. If there is slack in the lifeline or if the retraction hesitates, the unit should be returned to the T.A. Pelsue Company for service.

PSRL1350 Series Retractable Lifelines offer both fall-arrest protection, and a means of personnel retrieval should an incapacitated person require rescue.

These are the two modes of the PSRL1350 Series Unit:

RETRACTABLE MODE: The unit will function as a retractable lifeline, paying cable in and out as the worker moves, locking and catching the worker should they fall.

WINCH MODE: The unit will be engaged in winch mode, an attendant is able to turn the unit’s hand crank and raise or lower a fellow worker out of a hazardous environment or situation.

WARNING

If the retractable lifeline has been subject to fall arrest forces, it must be removed from service immediately and sent to the T.A. Pelsue Company for inspection and service.

5.0 - Installation & Use (continued)

USING THE PSRL1350 SERIES: A newly purchased PSRL1350 unit is shipped in retractable mode by default. One can tell which mode the unit is in by looking at the base of the handle. When the base of the handle protrudes 1-1/2" from the housing, the unit is in retractable mode (Figure 5.5a).



Figure 5.5a

Another way to tell which mode the unit is in, is by pulling on the working line. If the line comes out of the unit and automatically pulls back into the housing, the unit is in retractable mode. If the line does not pull out when a force is applied to the line, the unit is in winch mode.

To switch the PSRL1350 Series from retractable mode to winch mode, perform the following actions:

1. Pull out and hold the knurled plunger (Figure 5.5b).
2. Push straight in on the base of the handle (Figure 5.5b), giving the handle a turn clockwise to ensure that the gears mesh properly.
3. Once the base of the handle is protruding 1" (instead of 1-1/2") from the housing (Figure 5.5c), the unit is in winch mode, and now can raise and lower.
4. Release knurled plunger. The unit should now be able to crank the working line in and out.



Figure 5.5b



Figure 5.5c

6.0 - Training

6.1 GENERAL: It is the responsibility of the user to ensure that they read, understand, and follow all of the instructions presented within this manual. The user must be properly trained in the use, care, inspection, application limits, and consequences of this equipment. Training should be periodically repeated. Training must be done without exposing the user to a fall hazard.

7.0 - Inspection

7.1 GENERAL: Before each use, the device and connectors must be inspected for loose fasteners, bent, cracked, distorted, worn, malfunctioning, or damaged parts. The lifeline should be inspected for cuts, kinks, frays, damage, burns, corrosion, or worn areas. The working end of the lifeline should be checked to ensure that all thimbles and ferrules are in place and fixed properly with the impact indicating swivel locking snap.

7.2 LIFELINE: Pull the entire lifeline out of the device and inspect the lifeline for any damage, cuts, kinks, abrasions, wear, frays, burns, or corrosion. Inspect the termination of the lifeline to the impact indicating swivel locking snap to ensure that the thimble and ferrules are properly affixed. Inspect the impact indicating swivel locking snap. Ensure the gates of the snap are working properly and fully lock and close. Visually inspect the snap to ensure that the impact indicator is not showing. The impact indicator is a red band located just below the swivel. Slowly let all the lifeline retract into the device. It should retract smoothly and without hesitation.

7.3 FUNCTION: Pull out approximately two feet of lifeline. While holding the lifeline above the impact indicator, give the lifeline a sharp, quick pull. The unit should lock up and remain locked. 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.

7.4 HOUSING: Inspect the housing for loose or missing screws. Inspect the housing for cracks, dents, bends, corrosion, distortions, or any damage. The labels and warnings should be fully present and legible. Inspect all connectors for damage and proper function.

7.5 FREQUENCY: The retractable lifeline must be inspected before each use. A record log of all inspections and servicing must be maintained by the company safety director. An annual recertification by the T.A. Pelsue Company is recommended to ensure that all components are in working condition. Use in abusive environments will necessitate more frequent inspections by a competent person. Only the T.A. Pelsue Company or its authorized agents may perform service on the device.

7.6 ACTION: If any of the above conditions exist or become apparent during the inspection process, remove the retractable lifeline from service immediately. If the retractable lifeline has been involved in a fall or if it has been exposed to the forces of fall arrest, the retractable lifeline must be removed from service immediately.

8.0 - Maintenance & Storage

8.1 CLEANING: Clean the housing and lifeline with a water and mild soap solution. Rinse thoroughly and towel or air dry. Do not use heat to dry the retractable lifeline. This should be done periodically when excess dirt or other materials build up on the retractable. Excess dirt or other materials may inhibit the function of the device.

8.2 STORAGE: Store the retractable lifeline in a cool, clean and dry environment. Refer to the component instructions for proper storage.

9.0 - Specifications

Housing Material:..... **Cast Aluminium**
Drum Material:..... **Cast Aluminium**
Main Shaft:..... **Stainless Steel**
Ratchet Center:..... **Alloy Bronze**
Braking Pawls:..... **Alloy Bronze**
Main Spring:..... **Stainless Steel**
Impact Indicating Snap:.... **Alloy Steel, plated, minimum tensile of 5000 LBS.**
Housing Finish..... **Powder coating**
Fasteners:..... **Stainless Steel**
Lifeline Material:..... **Stainless Steel Wire Rope, 3/16" Diam. (-SS Model Number Suffix)**
"Technora" synthetic rope, 3/16" Diam. (-TR Model Number Suffix)



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