



# SAFEWAZE

## Latitude Pro 7' Arc Flash SRL Manual



### WARNING

This product is part of a personal fall arrest, work positioning, or rescue system. The manufacturer's instructions must be provided to users of this equipment. The user must follow the manufacturer's instructions for each component of the system. The user must read and understand these instructions before using this equipment. Manufacturer's instructions must be followed for proper use and maintenance of this equipment. Alterations to this product, misuse of this product, or failure to follow instructions may result in serious injury or death.



### IMPORTANT

Questions regarding the use, care, or suitability of this equipment for your application? Contact Safewaze.



### IMPORTANT

Record identification information before using this product. Identification information may be found on the equipment label (See Figure 11). This information should be recorded in the "Inspection and Maintenance Log" located at the back of this manual (Page 16).



**THESE DEVICES MEET OR EXCEED:  
ANSI Z359.14, ASTM 887-18, NFPA 70E, and are 40 cal rated**

**This manual is intended to meet the manufacturer's instructions as required by ANSI Z359.14 and should be used as part of an employee training program as required by OSHA.**

## SAFETY INFORMATION AND PRECAUTIONS

User must read, understand, and follow all safety and usage information contained within this manual prior to use of this equipment. Failure to follow all safety and usage information can result in serious injury or death.

### Intended Use:

The equipment covered in this manual is intended for use as part of a complete Personal Fall Arrest System (PFAS).

Use of this equipment for any other purpose, such as material handling, sports activities, or other action not described in these User Instructions is not approved by Safewaze. Use of this equipment in a manner outside the scope of those covered within this Manual can result in serious injury or death.

The equipment covered in this manual is only to be used by trained personnel in workplace applications.

## WARNING

Safewaze Self Retracting Lifelines (SRLs) are part of a complete PFAS. Every user must be trained in the inspection, installation, operation, and proper usage of their complete PFAS. Unapproved or inappropriate use of Safewaze SRLs could result in serious injury or death. Refer to these instructions for the proper selection, installation, maintenance, and service of this equipment. For questions regarding use of this equipment beyond the scope of this manual, contact Safewaze.

- **The actions listed below are designed to reduce the risks associated with the use of Safewaze SRLs:**
  - User must inspect the SRL prior to each use which includes a check for proper locking and retraction.
  - If the inspection reveals an unsafe or defective condition, the SRL must be removed from service and repaired or replaced as specified in this manual.
  - If a Safewaze SRL is exposed to fall arrest or impact forces, it must be immediately removed from service and labeled "Unusable".
  - Never allow slack to form in the SRL lifeline constituent. Never tie or knot the lifeline.
  - Utilize extra caution to keep the lifeline free from any obstructions including but not limited to; surrounding objects, tools, equipment, moving machinery, co-workers, yourself, or possible impact from overhead objects that could come into contact with the lifeline or worker.
  - Avoid making sudden or quick movements as this could cause the SRL to inadvertently lock.
  - Do not use a Safewaze SRL in an environment where the fall path is obstructed. Use of a Safewaze SRL on slowly shifting or unstable material such as grain or sand, or within cramped or confined spaces, may not allow the worker to reach adequate speed to make the SRL lock up.
  - Unused leg(s) of a harness mounted SRL should be attached to the parking component on the front of the harness.
  - If the PFAS is made up of components from different manufacturers, ensure that all components of the PFAS are compatible with each other and meet all applicable standards, regulations, or requirements. A Competent or Qualified Person should always review and approve the PFAS system prior to worker use.
  
- **Users should enact the precautionary measures listed below to reduce the inherent risks of working at height:**
  - Fall protection equipment that fails inspection must be removed from service and tagged "Unusable". This equipment should be returned to Safewaze for repair / service (if applicable), or destroyed. For questions regarding service / repair of components, contact Safewaze.
  - Never exceed the maximum allowable weight capacity of your fall protection equipment.
  - Never exceed the maximum free fall distance of your fall protection equipment.
  - A Rescue Plan must be in place in the event of a fall. All employees should be trained and knowledgeable in the Rescue Plan and Rescue Operations.
  - Fall protection equipment must never be altered or modified. Only Safewaze, or entities authorized in writing by Safewaze, may make repairs to Safewaze fall protection equipment.
  - User(s) of Safewaze fall protection equipment must ensure that their health and physical condition allows them to withstand all forces and potential risks associated with working at heights.
  - Use of a body belt is not authorized for fall arrest applications. Use only a Full Body Harness (FBH).
  - Always wear required personal protective equipment when installing, using, or inspecting this equipment.
  - If conducting training operations with this equipment, ensure that a secondary fall protection system is installed and utilized in a manner that does not expose the trainee to unintended fall hazards.
  - Immediately seek medical attention in the event a worker suffers a fall arrest incident.
  - Work directly under the anchor point as much as possible to minimize swing fall hazards.
  - Certain subsystems may interfere with the proper operation of the equipment in this manual. Use only compatible connections. Contact Safewaze for questions regarding compatibility of equipment or components not covered in this manual.
  - Avoid objects, equipment, or surfaces that could harm the user or equipment.
  - User must ensure that there is adequate fall clearance when working at height.
  - Extra precautions must be taken if working in the vicinity of moving machinery, electrical hazards, chemical hazards, sharp edges, explosive or toxic gases, extreme temperatures, or below overhead equipment or materials that could impact the user and his/her fall protection equipment.
  - If work is conducted in a high heat environment, ensure that Arc Flash or other suitable fall protection equipment is utilized.

# DESCRIPTION


Table 1 indicates the SRL models included in the Latitude Pro Arc Flash Series as well as their configurations. Models in the series are offered in 7 ft (2.13 m) length.

Latitude Pro Arc Flash units are equipped with 20 mm Kevlar® webbing. They are available in single and dual configurations with a variety of connection options (See Table 1).

Safewaze SRL units extend and retract freely with normal movement. If a fall occurs the system locks automatically, arresting the fall, and keeps the worker from falling further.

Safewaze Latitude Pro Arc Flash SRLs meet the testing requirements of the ASTM F887-18 standard and were developed for use in areas where an Arc Flash, or High Heat hazard may exist. In the event of an Arc Flash or other high heat incident, the Safewaze Latitude Pro Arc Flash SRLs are designed to withstand the high temperatures of such an event, and continue to function as a Fall Arrest device.

**TABLE 1 - PART NUMBERS AND CONFIGURATIONS COVERED IN THIS MANUAL**

Part Number	Length in Feet	Single Leg / Dual Leg	Material	Housing											
					Sew In Fall Indicator	3/4" Steel Snaphook	1.75" Steel Rebar Hook	3/4" Aluminum Rebar Hook	1.75" Aluminum Snap Hook	Dielectric Snap Hook	Steel Carabiner	90° Behind the Web Bracket	90° Behind the Web Bracket		
020-5200	8	SINGLE	WEB	CLEAR RESIN			✓						✓		
020-5201	8	SINGLE	WEB	CLEAR RESIN					✓				✓		
020-5202	8	SINGLE	WEB	CLEAR RESIN						✓			✓		
020-5203	8	SINGLE	WEB	CLEAR RESIN							✓		✓		
020-5204	8	SINGLE	WEB	CLEAR RESIN			✓								✓
020-5205	8	SINGLE	WEB	CLEAR RESIN					✓						✓
020-5206	8	SINGLE	WEB	CLEAR RESIN						✓					✓
020-5207	8	SINGLE	WEB	CLEAR RESIN							✓				✓
020-5208	8	SINGLE	WEB	CLEAR RESIN								✓			✓
020-5213	8	DUAL	WEB	CLEAR RESIN			✓								✓
020-5214	8	DUAL	WEB	CLEAR RESIN					✓						✓
020-5215	8	DUAL	WEB	CLEAR RESIN						✓					✓
020-5216	8	DUAL	WEB	CLEAR RESIN							✓				✓
020-5217	8	DUAL	WEB	CLEAR RESIN			✓							✓	
020-5218	8	DUAL	WEB	CLEAR RESIN					✓					✓	
020-5219	8	DUAL	WEB	CLEAR RESIN						✓				✓	
020-5220	8	DUAL	WEB	CLEAR RESIN							✓			✓	
020-5221	8	DUAL	WEB	CLEAR RESIN								✓			✓

**TABLE 2 - LATITUDE ARC FLASH SRL COMPONENT SPECIFICATIONS**

<b>HOUSING</b>	Clear Resin
<b>DRUM</b>	Aluminum
<b>LIFELINE</b>	20mm Kevlar® Webbing
<b>SWIVEL</b>	Aluminum
<b>9012 BEHIND THE WEB BRACKET</b>	Zinc Plated Steel
<b>9013 BEHIND THE WEB BRACKET</b>	Aluminum / Stainless Steel
<b>FASTENERS</b>	Aluminum / Steel / Stainless Steel
<b>LOCKING PAWLS</b>	Steel
<b>MAIN SHAFT</b>	Steel
<b>SPRINGS</b>	Carbon Steel

## 1.0 APPLICATIONS

### 1.1 PURPOSE

Safewaze Pro Arc Flash SRLs are designed for use in environments where a fall could occur. The purpose is to prevent the fall or limit the potential fall arrest forces as much as possible. A variety of connection and configuration options are available to suit any users preference or job-site requirements (See Table 1). Applications include, but are not limited to: roofing, concrete, steel, MEP, and industrial maintenance.

### 1.2 STANDARDS

Safewaze SRLs conform to the national standard(s) identified on their ID label. Refer to local, state, and federal (OSHA) requirements for additional information concerning the governing of occupational safety regarding Personal Fall Arrest Systems (PFAS). Examples of Latitude Pro Arc Flash SRL labeling are located on (Page 15) of this manual.

**TABLE 3 - ANSI STANDARDS**

ANSI	Z359.0	Definitions and Nomenclature Used for Fall Protection and Fall Arrest
ANSI	Z359.2	Minimum Requirements for a Comprehensive Managed Fall Protection Program
ANSI	Z359.12	Connecting Components for Personal Fall Arrest Systems
ANSI	Z359.14	Safety Requirements for Self-Retracting Devices for Personal Fall Arrest and Rescue Systems
ANSI	A10.32	Personal Fall Protection use in Construction and Demolition
ASTM	F887-18	Standard Specifications for Personal Climbing Equipment
NFPA	70E	Standard for Electrical Safety in the Workplace

### 1.3 TRAINING

This equipment is intended to be used by persons trained in its correct application and use. It is the responsibility of the user to assure they are familiar with these instructions and are trained in the correct care and use of this equipment. Users must be aware of the operating characteristics, application, limits, and the consequences of improper use.

### 1.4 LIMITATIONS AND REQUIREMENTS

When installing or using this equipment always refer to the following requirements and limitations:

- **Capacity:** Safewaze Latitude Pro Arc Flash SRLs are designed in compliance with ANSI Z359.14 to meet the weight capacity range of (130-310 lbs).
- **Anchorage:** Anchorages selected for fall arrest systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least:
  1. 5,000 lbs. (22.2 kN) for non-certified anchorages, or
  2. Two times the maximum arresting force for certified anchorages.

When more than one fall arrest system is attached to an anchorage, the strengths set forth in (1) and (2) above shall be multiplied by the number of systems attached to the anchorage.

**From OSHA 1926.500 and 1910.66:**

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 (22.2 kN) per user attached, or be designed, installed, and used as part of a complete personal fall arrest system which maintains a safety factor of at least two, and is under the supervision of a qualified person.

- **Locking Speed:** The nature of this equipment requires sufficient space in the working area to allow for the SRL to lock. Working in small or confined spaces may keep the user's body from reaching the speed needed to lock the SRL during a fall. Working on slowly shifting materials, such as grain or sand, may not allow the speed needed to cause the SRL to lock.
- **Free Fall:** Safewaze SRLs when used correctly with the unit anchored directly overhead and no slack in the lifeline, will limit the free fall distance to 0 ft. (0 cm). In order to limit free fall distances, keep attachment of the SRL below Dorsal D-ring height to as minimal a distance as possible. Safewaze Latitude Pro Arc Flash SRLs are designed for use up to a maximum of 2 ft. (.61 m) below the user's Dorsal D-ring.
- **Swing Falls:** As the user moves laterally away from an overhead anchor point, the risks related to swing falls increase. The force of striking an object involving swing fall can in some instances generate more forces than a fall with the user wearing no fall protection equipment. Minimize swing falls by working as directly below the anchorage point as possible.
- **Fall Clearance:** Figure 4 Illustrates a Fall Clearance Calculation. Fall Clearance (FC) is the total combined values of Free Fall (FF), Deceleration Distance (DD), and a Safety Factor (SF). Safety Factor calculations may differ by manufacturer, but for the purposes of this manual, the Safety Factor is calculated at 1.5 ft.. The Safety Factor includes D-ring shift and Harness Stretch.

Tables 6 in this manual indicates the Minimum Fall Clearance when the Latitude Pro Arc Flash are anchored overhead. Table 6 covers users in the 130 lb to 310 lb range (Per ANSI). For falls from a kneeling or crouched position an additional 3 ft (1 m) of Fall Clearance is required. If a Swing Fall Hazard exists, the total vertical fall distance will be greater than if the user had fallen directly under the anchor point. Section 2.7 and Table 6 in this manual provide information regarding Swing Fall hazards and additional Fall Clearance Requirements.

- **Hazards:** Extra precautions should be taken if this equipment is used in an environment where hazards exist. Hazards can include but are not limited to: moving machinery, high voltage equipment or power lines, caustic chemicals, corrosive environments, toxic or explosive gases, high heat, or in an area where overhead equipment or personnel could fall and contact the user, or fall protection equipment. Areas where the user's lifeline may cross or tangle with the lifeline of another user should be avoided. Do not allow the lifeline to pass under arms or between the user's legs.
- **Sharp Edges:** Safewaze Pro Arc Flash SRLs are not intended for use in a Leading Edge environment. User should avoid lifeline contact with sharp, rough, or abrasive edges.

## 2.0 INSPECTION FREQUENCY

Either the Authorized Person<sup>1</sup> (User) or the Rescuer<sup>2</sup> must inspect this equipment prior to each use. The Inspection table (Table 4), should be used to determine proper inspection frequency. The Inspection Checklist (Page 16) illustrates proper inspection procedures. The Competent Person should record inspection results in the Inspection Log (Page 17) of this manual. Annual inspections by a Competent Person other than the user must also be recorded in the Inspection Log (Page 17).

1. **Authorized Person:** A person assigned by the employer to perform duties at a location where such person will be exposed to a fall hazard.
2. **Rescuer:** Person or persons other than the rescue subject acting to perform an assisted rescue by operation of a rescue system.



**NOTE:** Special rescue measures may be required for a fall over an edge.

**TABLE 4 - INSPECTION SCHEDULE PER ANSI Z359.14**

Type of Use	Application Examples	Conditions of Use	Inspection Frequency Competent Person
Infrequent to Light	Rescue and Confined Space, Factory Maintenance	Good Storage Conditions, Indoor or Infrequent Outdoor Use, Room Temperature, Clean Environments	Annually
Moderate to Heavy	Transportation, Residential Construction, Utilities, Warehouse	Fair Storage Conditions, Indoor and Extended Outdoor Use, All Temperatures, Clean or Dusty Environments	Semi-Annually to Annually
Severe to Continuous	Commercial Construction, Oil and Gas, Mining	Harsh Storage Conditions, Prolonged or Continuous Outdoor Use, All Temperatures, Dirty Environment	Quarterly to Semi-Annually

## 2.1 FALL PROTECTION & RESCUE PLAN

When using this equipment, employers must create and maintain a Fall Protection and Rescue Plan, and provide the means to implement those plans. The plans must be communicated to equipment users, authorized persons, and rescuers. These plans must meet ANSI Z359.2 "Minimum Requirements for a Comprehensive Managed Fall Protection Program." They should include the requirements and guidelines for the employer's managed Fall Protection Program. This would include eliminating and controlling fall hazards, duties and training, policies, fall protection procedures, rescue procedures, incident investigations, and evaluation of the programs effectiveness.

## 2.2 NORMAL OPERATIONS

During normal operations, the lifeline constituent of the SRL will extend and retract freely with no slack or hesitation as the worker moves at normal speeds. In the event of a fall, Safewaze SRLs are equipped with a speed sensing braking system. The braking system will activate, stopping the fall, and absorbing much of the energy generated by the fall. Due to the speed sensing braking system, user(s) should avoid quick or sudden movements, as this may cause the SRL to inadvertently lock. If the user is performing operations near the end of the working length of the SRL, a reserve line is incorporated within the SRL to reduce fall arrest forces.

## 2.3 COMPATIBILITY OF COMPONENTS

Safewaze Fall Protection Equipment is designed for use with Safewaze components and subsystems only. A Qualified Person should make the determination of Safewaze equipment compatibility with equipment not manufactured by Safewaze. Replacement or substitution of equipment not manufactured by Safewaze, may degrade or reduce the safety and reliability of the complete system.



**IMPORTANT:** Read and follow manufacturer's instructions for associated components and subsystems in your personal fall arrest system.

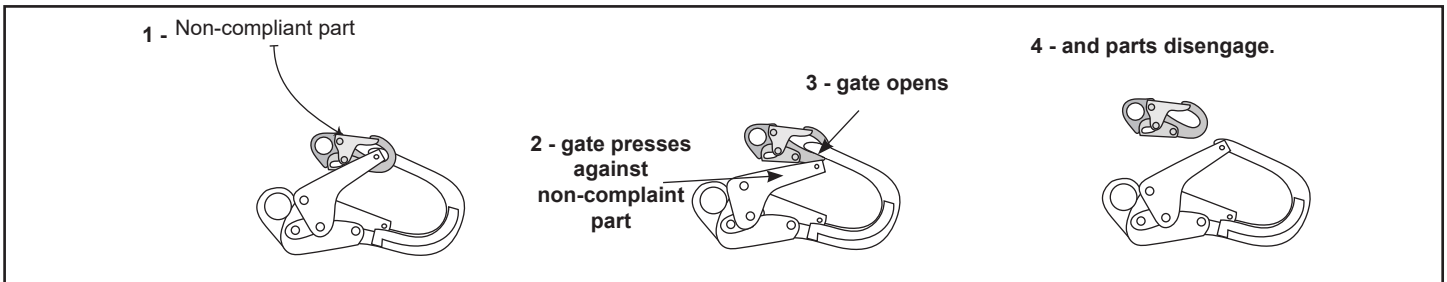
## 2.4 COMPATIBILITY OF CONNECTORS

Connectors are compatible with connecting elements when they have been designed to work together in such a way that their sizes and shapes do not cause their gate mechanisms to inadvertently open, regardless of how they become oriented. Connectors (hooks, carabiners, and D-rings) must be capable of supporting at least 5,000 lbs. (22.2 kN). Connectors must be compatible with the anchorage or other system components (See Figure 1). Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage (See Figure 1). Connectors must be compatible in size, shape, and strength. Self-locking snap hooks and carabiners are required by ANSI Z359 and OSHA guidelines. Contact Safewaze if you have any questions about compatibility.



**NOTE:** SOME SPECIALTY CONNECTORS HAVE ADDITIONAL REQUIREMENTS. CONTACT SAFEWAZE WITH QUESTIONS.

**FIGURE 1 - UNINTENTIONAL DISENGAGEMENT**



Using a connector that is undersized or irregular in shape (1) to connect a snap hook or carabiner could allow the connector to force open the gate of the snap hook or carabiner. When force is applied, the gate of the hook or carabiner presses against the non-compliant part (2) and forces open the gate (3). This allows the snap hook or carabiner to disengage (4) from the connection point.

## 2.5 MAKING CONNECTIONS

Snap hooks and carabiners used with this equipment must be double locking and/or twist lock. Ensure all connections are compatible in size, shape and strength. Do not use equipment that is not compatible. Ensure all connectors are fully closed and locked.

Safewaze connectors (snap hooks and carabiners) are designed to be used only as specified in each product's user's instructions. (See Figure 2) for examples of inappropriate connections. Do not connect snap hooks and carabiners:

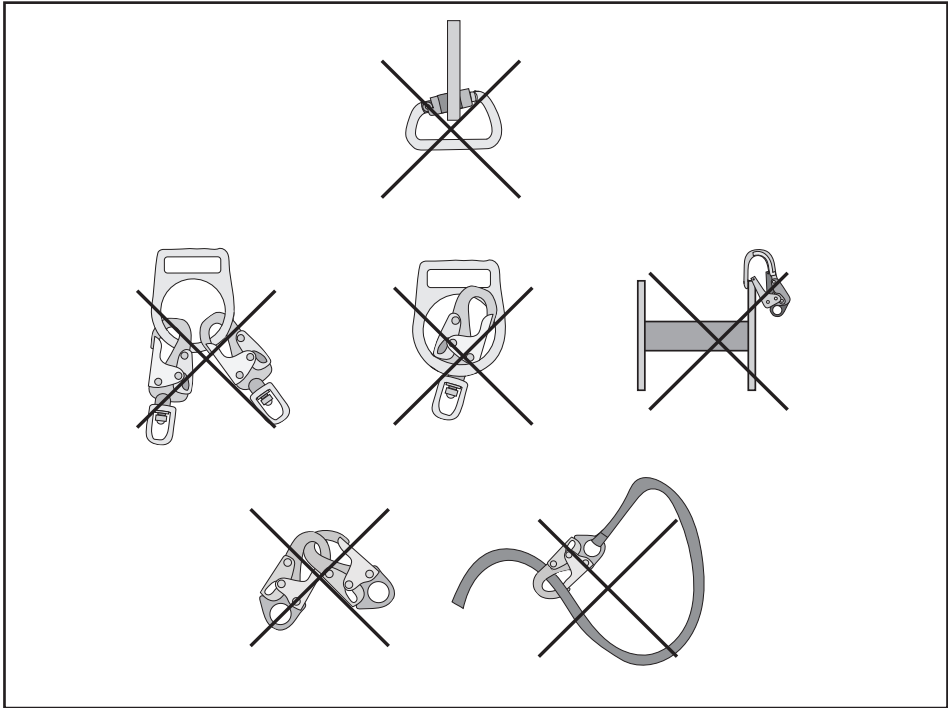
- To a D-ring to which another connector is attached.
- In a manner that would result in a load on the gate (with the exception of Tie-Back hooks). NOTE: Large snap hooks must not be connected to objects which will result in a load on the gate if the hook twists or rotates, unless the snap hook complies with ANSI Z359.12 and is equipped with a 3,600 lb (16 kN) gate. Check the marking on your snap hook to verify its compatibility.



**NOTE:** Large throat snap hooks must not be connected to standard size D-rings or similar objects which will result in a load on the gate if the hook or D-ring twists or rotates, unless the snap hook complies with ANSI Z359.12 and is equipped with a 3,600 lb (16 kN) gate. Check the marking on your snap hook to verify that it is appropriate for your application.

- In a false engagement, where features that protrude from the snap hook or carabiner catch on the anchor, and without visual confirmation seems to be fully engaged to the anchor point.
- To each other.
- By wrapping the web lifeline around an anchor and securing to lifeline except as allowed for Tie-Back models
- To any object which is shaped or sized in a way that the snap hook or carabiner will not close and lock, or that roll-out could occur.
- In a manner that does not allow the connector to align properly while under load.

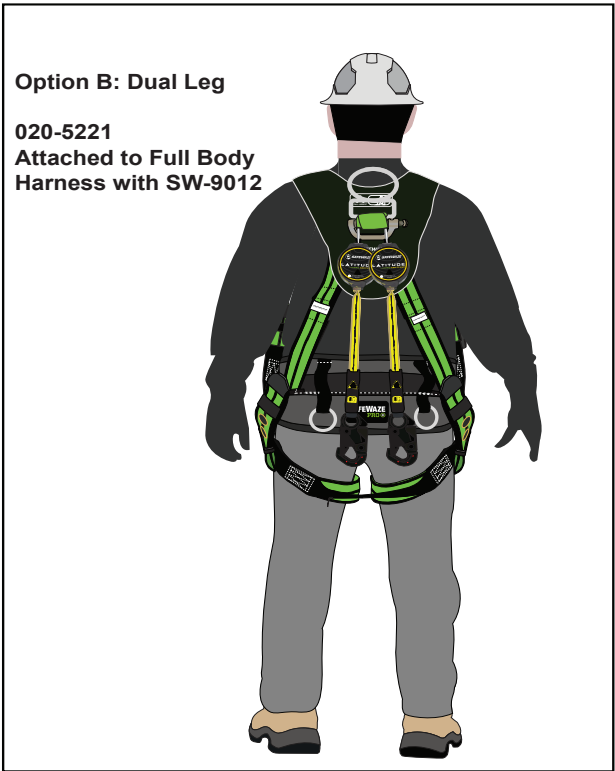
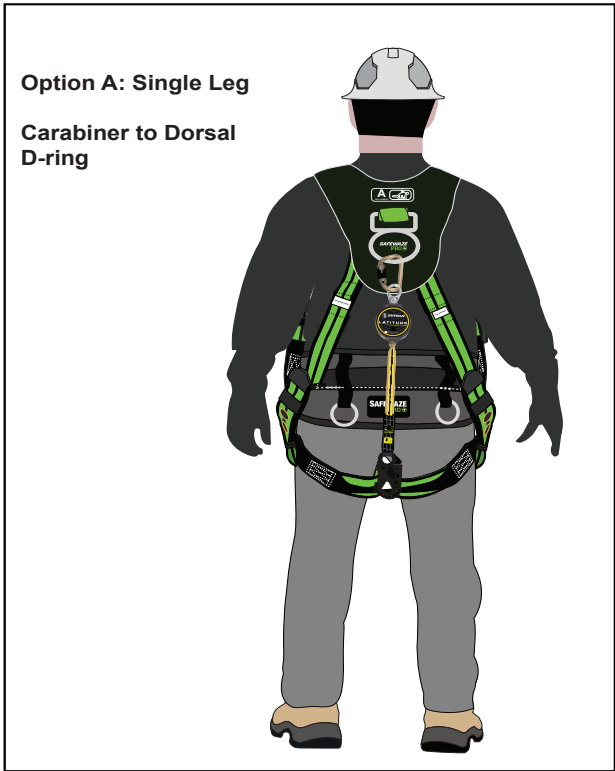
**FIGURE 2 - INAPPROPRIATE CONNECTIONS**



**2.6 BODY SUPPORT**

Only a Full Body Harness (FBH) may be used with this equipment. The Full Body Harness must connect to the Latitude Pro Arc Flash SRL via the dorsal D-ring. Safewaze SRLs are not rated for use with a body belt. Use of Safewaze SRLs with a body belt may result in injury. Figure 3 illustrates typical connection of Safewaze SRLs to the Dorsal D-ring of the Full Body Harness.

**FIGURE 3 - SRL TO HARNESS CONNECTION EXAMPLES**



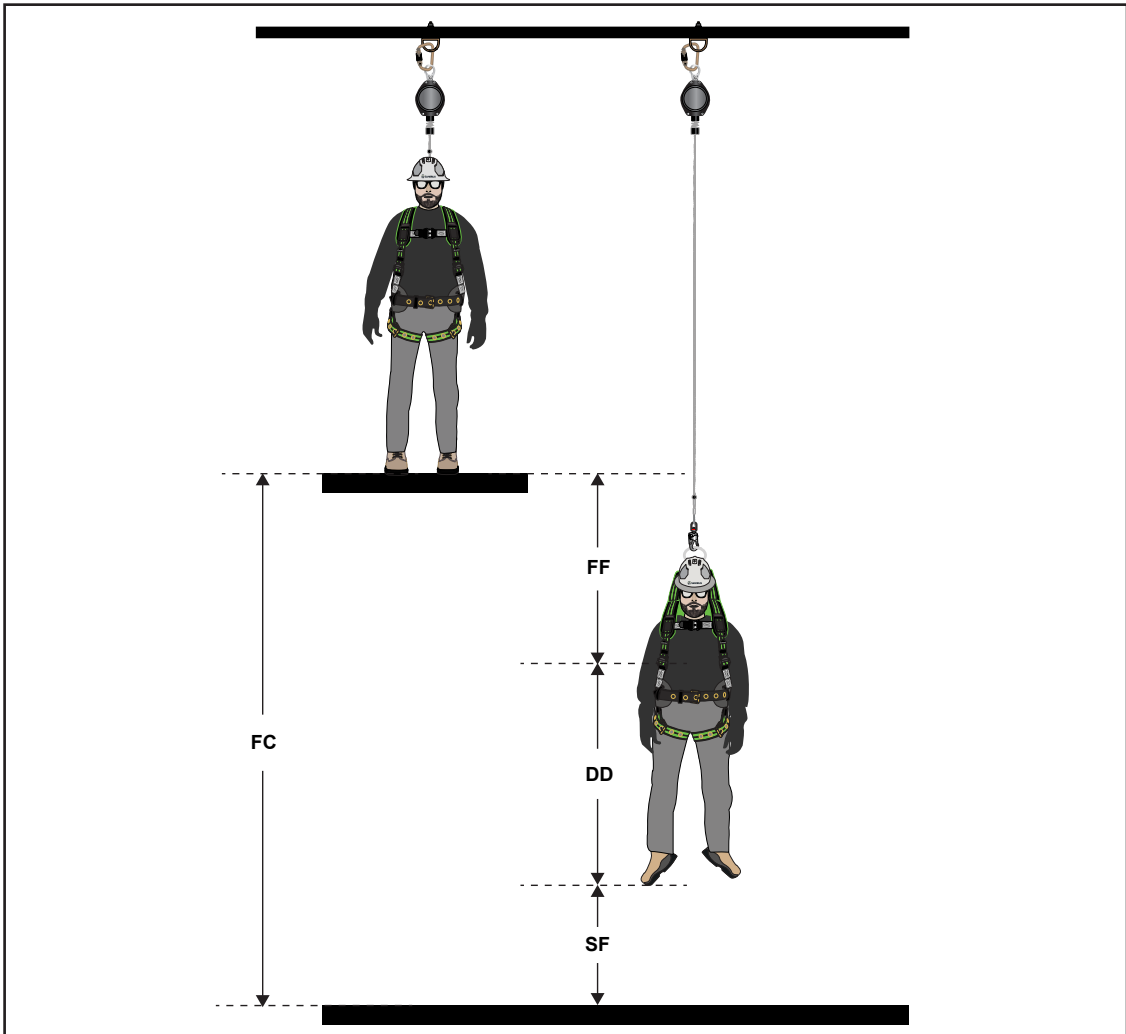
Option C: Dual Leg  
020-5221  
Attached to Full Body  
Harness with 9013



Option D: Single Leg  
020-5208  
Anchored Overhead



**FIGURE 4 - DETERMINING MINIMUM REQUIRED FALL CLEARANCE (OVERHEAD USE)**





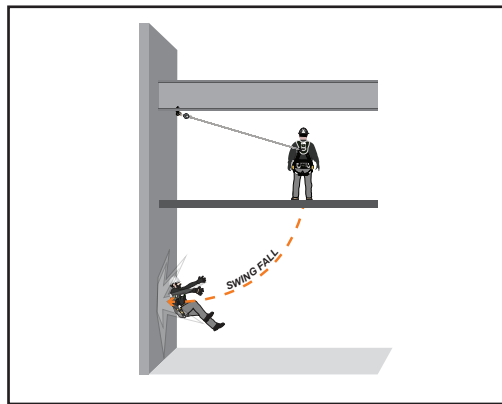
**TABLE 5 - MINIMUM FALL CLEARANCE (OVERHEAD USE - WORKER 130 LB TO 310 LB)**

FREE FALL (FF) + DECELERATION DISTANCE (DD) + SAFETY FACTOR (SF) = FALL CLEARANCE (FC)	
Latitude Pro Arc Flash Series Performance Specifications	ANSI 130 lb. - 310 lb. (59 kg - 140 kg)
Maximum Arresting Force	1,350 lbf (6.0 kN)
Average Arresting Force	900 lbf (4.0 kN)
Claimed Maximum Arresting Distance	24 in (1.2 m)
Minimum Fall Clearance Required	5 ft. (1.52 m)
Maximum Free Fall	0 ft. (0 m)

## 2.7 SWING FALLS




An anchorage point located in a position that is not directly over the user's fall location results in a Swing Fall (See Figure 5). Swing falls may result in the user striking an object with enough force to cause serious injury. Greater clearance is needed to ensure safety during a swing fall as vertical fall distance will be greater than a fall originating directly below the anchorage point. For help determining additional required fall clearance due to Swing Fall, (See Table 6).

**FIGURE 5 - SWING FALLS**

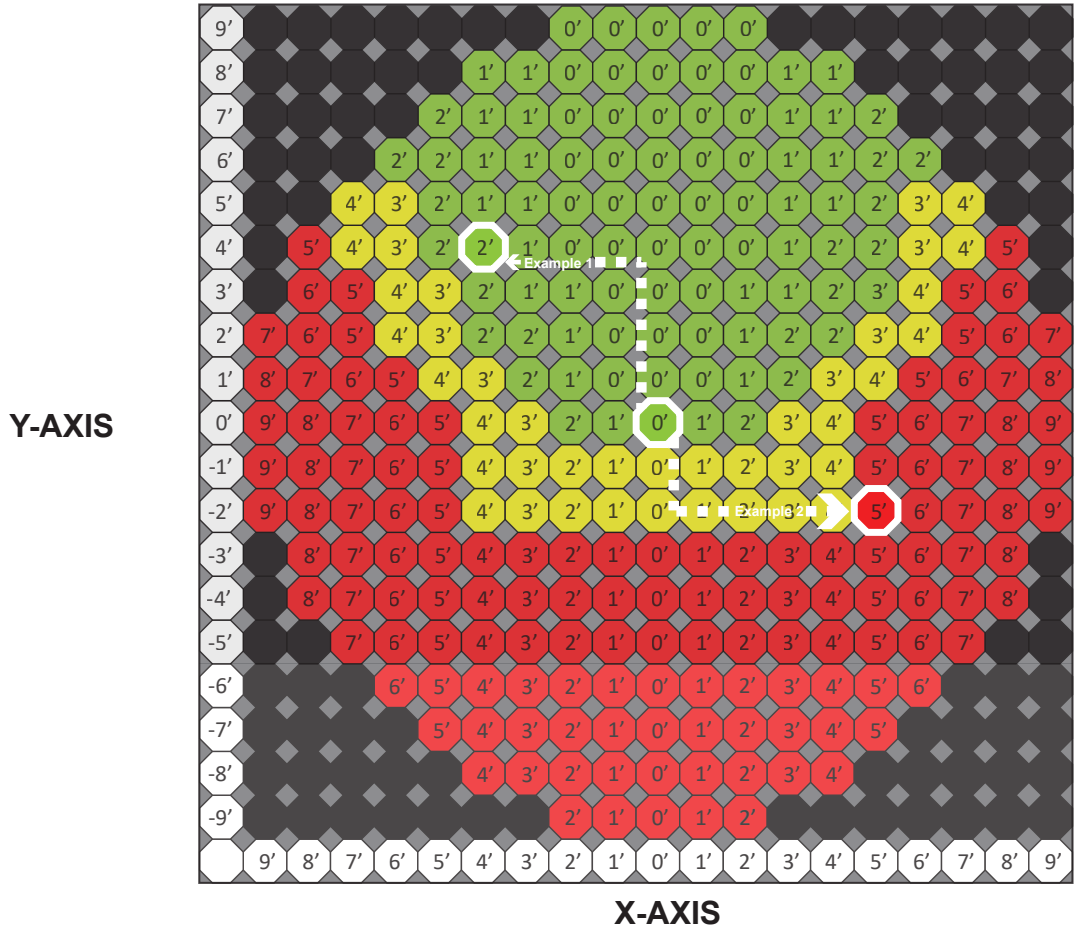


### Swing Fall Calculation Chart

**TABLE 6 - ADDITIONAL FALL CLEARANCE FOR SWING FALL HAZARDS**

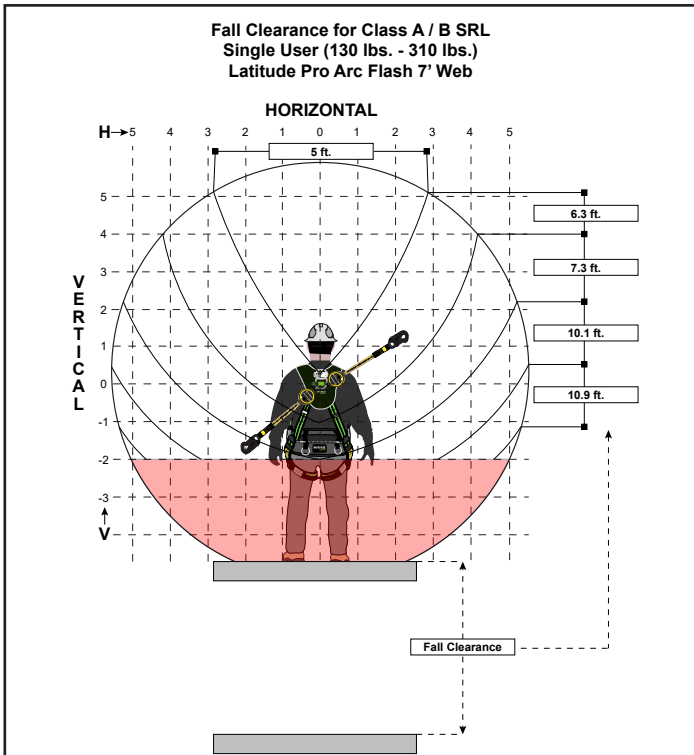
 Allowable Work Zone	 Allowable Work Zone with Enhanced Caution	 Not Allowed
<p><b>Using Table 6:</b> Table 6 provides the ability for the user to determine additional fall clearance requirements if a Swing Fall Hazard is present. The Green Cell bordered in White at the center of the Table represents the Dorsal D-ring of the user's Full Body Harness (FBH). This cell is the intersection of the X and Y axes.</p> <p><b>Example 1 - Latitude Pro Arc Flash SRL Anchored Overhead:</b> Example 1 represents the user anchored 4' Overhead (Up along the Y Axis) and 4' Laterally (Along the X Axis). The intersection of these distances on the chart indicate an additional 2' of fall clearance required. This additional required fall clearance must be added to the total fall clearance calculation in Figure 4 on Page 8.</p> <p><b>Example 2- Latitude Pro Arc Flash SRL Anchored Below Dorsal D-ring:</b> Example 2 represents the user anchoring the Latitude Pro Arc Flash SRL to an anchor point 2' below the height of the Dorsal D-ring (Down along the Y Axis) and 5' Laterally (Along the X Axis). The intersection of these distances on the chart indicate an additional 5' of fall clearance required. It also indicates that this configuration is outside of the allowable use. In this case the Lateral Distance must be shortened in order to safely use the Latitude Pro Arc Flash SRL.</p>		

**TABLE 6 - ADDITIONAL REQUIRED FALL CLEARANCE FOR SWING FALL HAZARD**

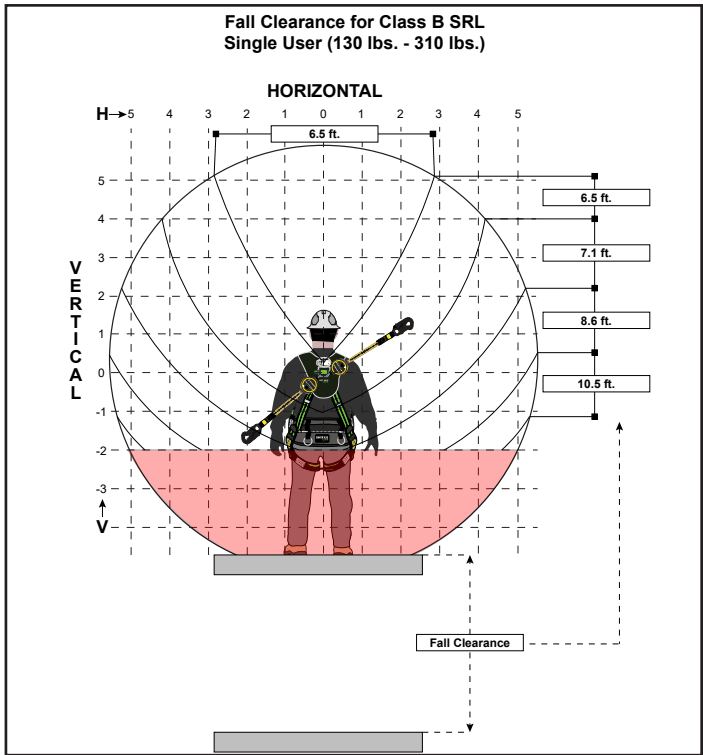


**Latitude Pro Arc Flash 7' Web: Class A/B**

**FIGURE 6**



**FIGURE 7**



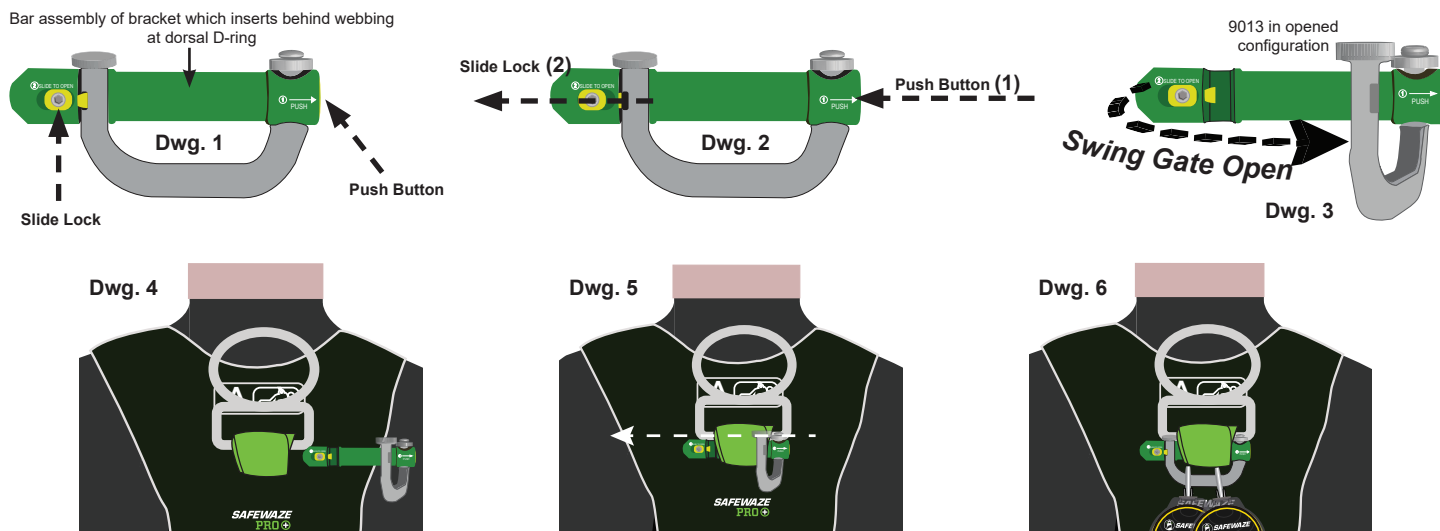
### 3.0 HARNESS CONNECTION WITH THE 9013 BEHIND THE WEB BRACKET

The 9013 comes fully assembled and ready for installation. Use the following instructions and Figure 8 to install the 9013 Behind the Web Bracket.

To Fasten To Harness:

1. Ensure that the curved portion of 9013 is in a downward orientation relative to the harness (See Dwg. 1).
2. Simultaneously depress both locking button (A) and slide lock (B) (See Dwg. 2) to swing the bracket as indicated (See Dwg. 3).
3. With the bracket open, install dual leg retractables onto the bracket via the swivel tops of each. Swivels should be hanging on the curved portion of bracket.
4. Slide the bar behind both loops of webbing at dorsal D-ring. Swing the bracket closed until it locks into place.
5. Check the locking function of the bracket by attempting to wing the bracket open WITHOUT depressing locking button (A) or slide lock (B). Bracket bar should not move and the bracket is now locked into place.
6. Dual leg Retractable can be easily installed and removed from bracket by once again depressing both locking button (A) and slide lock (B), which allows bracket to swing open without complete removal from harness.

**FIGURE 8 - 9013 DUAL BRACKET INSTALLATION**



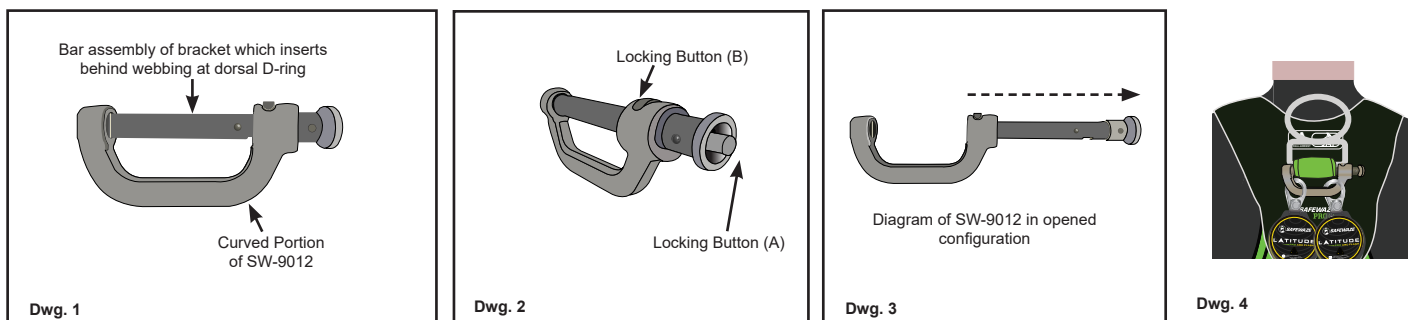
### 3.1 HARNESS CONNECTION WITH THE SW-9012 BEHIND THE WEB BRACKET

The SW-9012 comes fully assembled and ready for installation. Use the following instructions and Figure 9 to install the SW-9012 Behind the Web Bracket.

To Fasten To Harness:

1. Ensure that the curved portion of SW-9012 is in a downward orientation relative to the harness (See Dwg. 1, Figure 9).
2. Simultaneously depress both locking buttons (A) and (B) (See Dwg. 2, Figure 9) and slide the bracket open as indicated (See Dwg. 3, Figure 9).
3. With the bracket open, install dual leg retractables onto the bracket via the swivel tops of each. Swivels should be hanging on the curved portion of bracket.
4. While pressing in on locking button (A) slide the bar behind both loops of webbing at dorsal D-ring until the bar locks back into place.
5. Check the locking function of the bracket by attempting to slide the bracket open WITHOUT depressing locking buttons (A) or (B). Bracket bar should not move and the bracket is now locked into place.

**FIGURE 9 - SW-9012 DUAL BRACKET INSTALLATION**



## 4.0 SYSTEM CONNECTIONS

Figure 10 illustrates some typical examples of harness and anchorage connections for Safewaze SRL Fall Arrest Systems. When using a snap hook to make a connection, ensure roll-out cannot occur (See Figure 1). Do not use snap hooks or carabiners that will not completely close over the anchor point. This includes traditional overhead anchor point tie off, housing attachment to dorsal D-ring, and 100% tie off. Follow the manufacturer's instructions supplied with each system component.



**WARNING:** Never connect the snap hook of one SRL to the lifeline of another SRL or lanyard. Failure to comply with this warning may result in equipment malfunction, serious injury or death.

## 4.1 ANCHORAGE

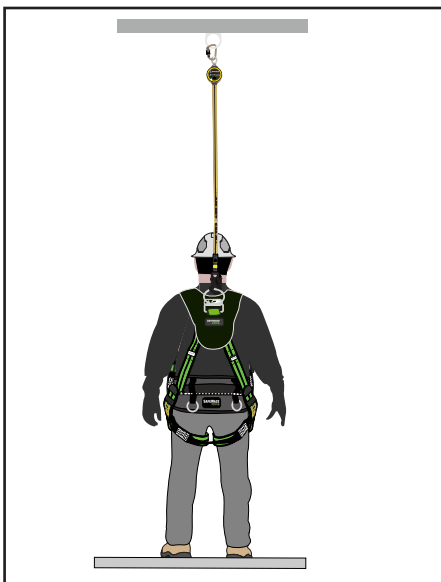
Select an anchorage location with minimal free fall and swing fall hazards (See Section 1.4). Select a rigid anchorage point capable of sustaining static loads as defined in Section 1.4. Where anchoring overhead is not feasible, Safewaze Latitude Pro Arc Flash SRLs may be secured to anchorage points up to a maximum of 2 ft. (.61 m) below the users Dorsal D-ring. NOTE: THIS ADJUSTMENT WILL ADJUST THE TOTAL FREE FALL AND MAXIMUM ARREST DISTANCE OF A FALL.



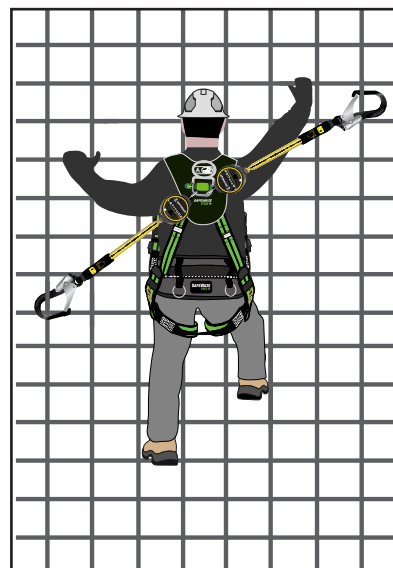
**WARNING:** The anchor point must be located at the same height or above the edge over which a fall might occur. Never anchor Safewaze SRLs below user's feet. Safewaze Pro Arc Flash series SRLs are Class A if used above Dorsal D-ring. Safewaze Pro Arc Flash series SRLs are Class B if used up to a maximum of 2 ft (.61 m) below Dorsal D-ring. Failure to comply with this warning may result in equipment malfunction, serious injury, or death.

FIGURE 10 - SYSTEM CONNECTIONS

A



B



## 4.2 DUAL LEG SRL

With the Dual Leg Safewaze SRL mounted on the back of a Full Body Harness, the user can have continuous fall protection (100 % tie-off) while ascending, descending, or moving laterally (See Figure 10B). With the lifeline leg of one SRL attached to an anchorage point, the worker can move to a new location, attach the unused lifeline leg of the other SRL to another anchorage point, and then disconnect from the original anchorage point.



**IMPORTANT:** Never connect more than one person at a time to the dual-leg system.

**IMPORTANT:** Do not allow the lifelines to pass under arms or between legs.

## 5.0 SPECIFICATIONS

### 5.1 PERFORMANCE

Safewaze SRLs have been tested and certified to the performance requirements of the standard(s) identified on their ID labels. See Tables 7 and 8 for performance specifications.

## 5.2 MAXIMUM ARREST FORCE AND MAXIMUM ARREST DISTANCE

SRLs documented in this instruction manual meet the following Arrest Force and Arrest Distance maximums when tested in accordance with Section 4.2.1 of ANSI Z359.14.

**TABLE 7 - CLASS A**

Average Arresting Force	≤ 1,350 lbs (6.0kN)
Maximum Arresting Force	≤ 1,800 lbs (8.0 kN)
Maximum Arrest Distance	24 in (0.61 m)

**TABLE 8 - CLASS B**

Average Arresting Force	≤ 900 lbs (5.0kN)
Maximum Arresting Force	≤ 1,800 lbs (8.0 kN)
Maximum Arrest Distance	54 in (1.37 m)

## 6.0 MAINTENANCE, SERVICING AND STORAGE

### 6.1 SERVICE

Remove the SRL from use if the SRL has been subjected to fall arrest forces or inspection reveals an unsafe or defective condition. If unreparable dispose of the SRL as recommended in Section 7.5.

### 6.2 CLEANING

Cleaning procedures for Safewaze SRLs are as follows:

Periodically clean the exterior of the SRL using water and a mild soap solution. Clean labels to maintain readability. Allow excess water to freely drain out of housing.

An excessive buildup of debris on the webbing may prevent the web lifeline from fully retracting back into the housing and create a potential free fall hazard. Clean the web with a water and mild soap solution. Allow webbing to dry fully before retracting back into housing. DO NOT use heat to force dry the webbing.



**IMPORTANT:** If the lifeline comes in contact with acids or other caustic chemicals, remove the SRL from service and wash with water and a mild soap solution. Inspect the SRL using the Inspection Form on Page 16 before returning to service.

### 6.3 STORAGE

Store Safewaze SRLs in a cool, dry, clean environment out of direct sunlight. Avoid areas where chemical vapors may exist. Thoroughly inspect the SRL after any period of extended storage.

## 7.0 INSPECTION

### 7.1 BEFORE EACH USE

Before each use ensure that the equipment is in good working condition. Inspect the unit to ensure it has not been damaged and that the unit pays out and retracts properly. Prior to each use, the braking system must be inspected. Grasp the body of the unit in one hand and the cable/web in the other. With a quick, jerking motion, pull down on the web/cable. The brake should engage, stopping movement almost immediately. Inspect the webbing and/or cable (using the Inspection Checklist on Page 16) and ensure that all connection hardware is working properly. Brake failure or unsatisfactory results during any portion of the inspection, require immediate removal of the SRL from service. Figure 13 points out key inspection areas of the Latitude Pro Arc Flash series of SRLs.

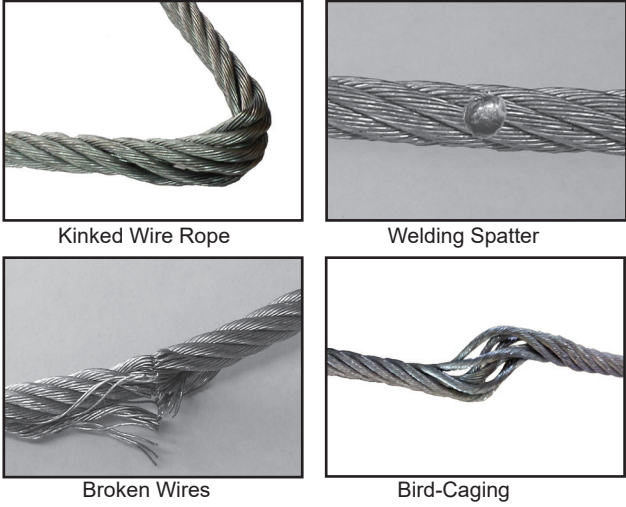
### 7.2 INSPECTION FREQUENCY

Safewaze SRLs must be inspected at the intervals defined in Section 2.0. Inspection procedures are described in the "Inspection Checklist" (See Page 16). Annual inspections by a Competent Person other than the user must be recorded in the Inspection Log on (Page 17) of this manual.

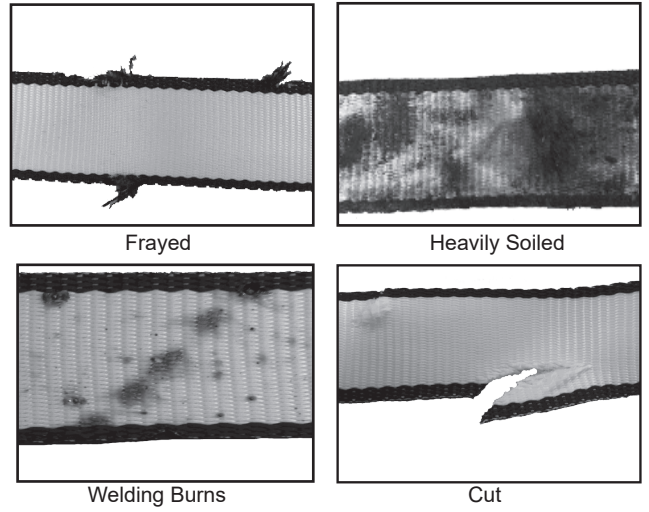


**FIGURE 12 - EXAMPLES OF EQUIPMENT DAMAGE**

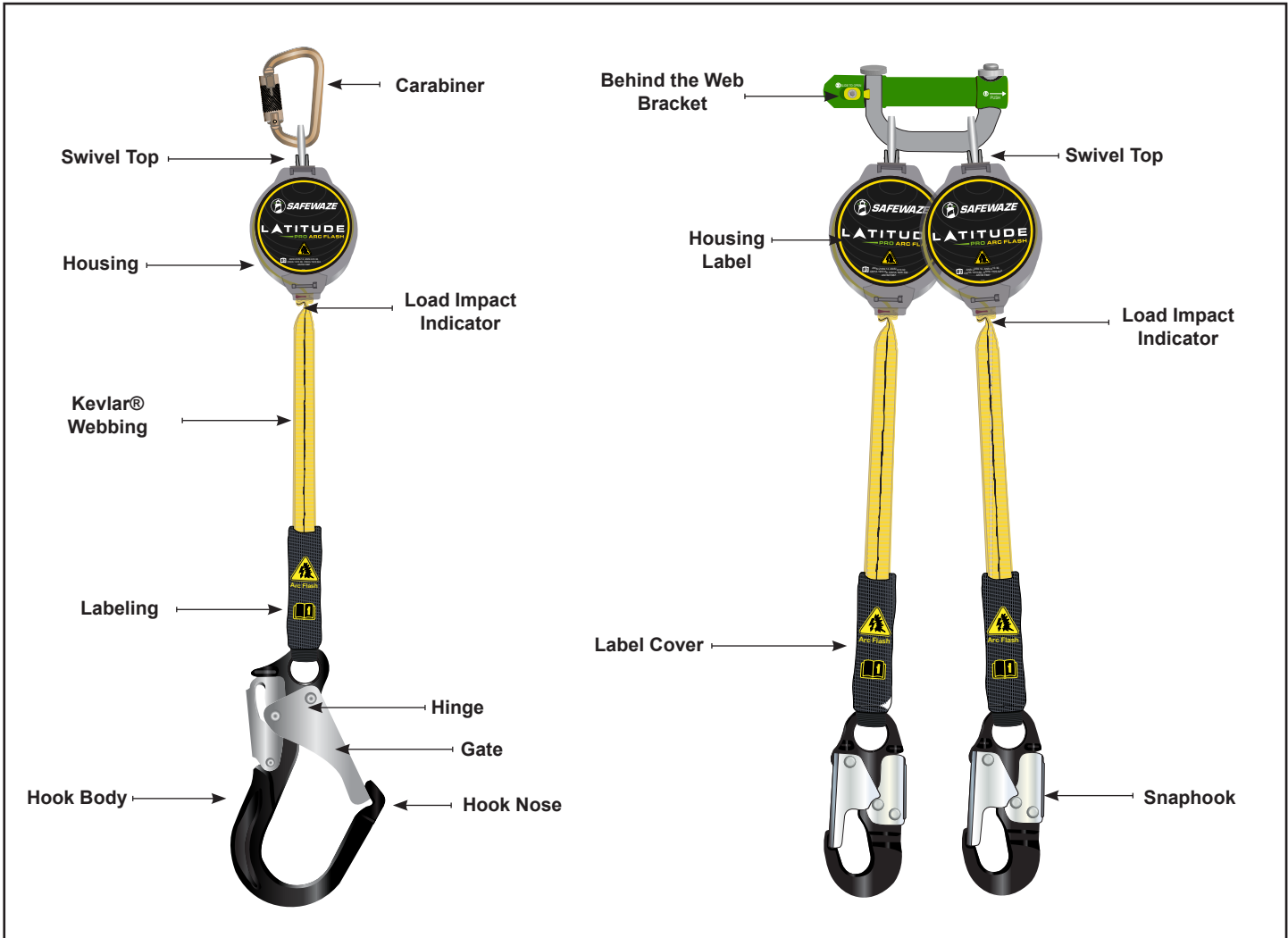
**Cable Damage Examples**



**Webbing Damage Examples**



**FIGURE 13 - INSPECTION DIAGRAMS**



Manufacturer: \_\_\_\_\_  
 Model Number: \_\_\_\_\_  
 Description: \_\_\_\_\_  
 Serial Number: \_\_\_\_\_  
 Lot Number: \_\_\_\_\_  
 Date of Manufacture: \_\_\_\_\_

Company: \_\_\_\_\_  
 Name of Inspector: \_\_\_\_\_  
 Signature: \_\_\_\_\_  
 Date of Inspection: \_\_\_\_\_  
 In-Service Date: \_\_\_\_\_  
 Lifeline Material:  Galvanized Steel  Stainless Steel  Web

### LABELS & MARKINGS

	PASS	FAIL	NOTE
Label (Intact and Legible)			
Appropriate ANSI / OSHA / CSA Markings			
Inspections are Current / Up-to-Date			
Date of First Use			

### SHOCK PACK (IF PRESENT)

	PASS	FAIL	NOTE
Cover / Shrink Tube (Don't Cut or Remove)			
Damage / Fraying / Broken Stitching			
Impact Indicator (Signs of Deployment)			

### HOUSING

	PASS	FAIL	NOTE
Attachment Point			
Nuts / Bolts / Rivets / Screws			
Evidence of Damage (Dents / Cracks / Rust)			

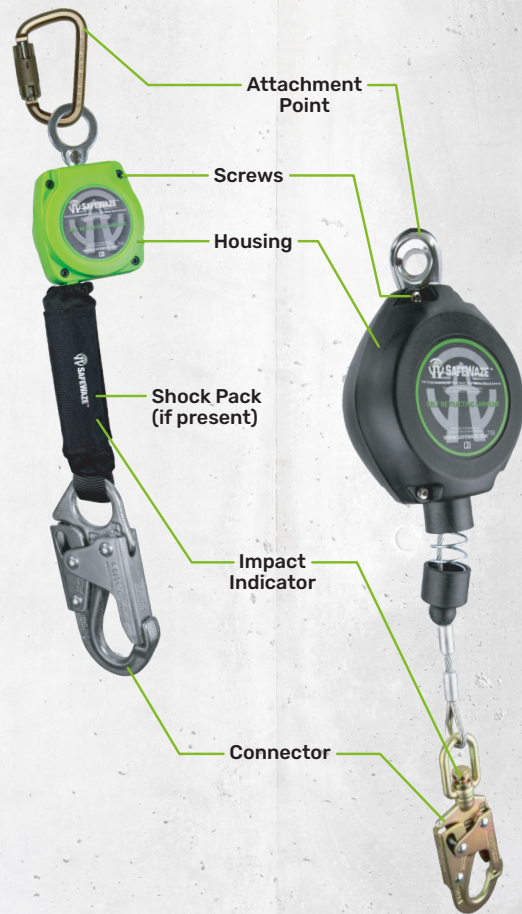
### LIFELINE (WEB OR CABLE)

	PASS	FAIL	NOTE
Termination (Stitch, Splice, or Swage)			
Cuts / Fraying / Broken Stitching			
Excessive Wear			
Cable Separating / Bird-Caging			
Entire Length Retracts Smoothly			
Test Braking / Locking Function			

### CONNECTORS

	PASS	FAIL	NOTE
Connector (Self-Closing & Locking)			
Impact Indicator			
Hook Body / Rivets			
Corrosion			
Pitting / Nicks			

### SELF-RETRACTING DEVICES



### NOTES

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_









***SAFEWAZE***

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Concord, NC 28025**

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