



Trusted Quality Fall Protection

INSTRUCTION MANUAL

ANSI Z359.14 Class B
ANSI A10.32
CSA Z259.2.2-98 Type 1

OSHA

This manual is intended to meet the Manufacturer's Instructions as required by the above listed standards and should be used as part of an employee training program as required by OSHA.

Rebel™

SELF RETRACTING LIFELINES

Model Numbers: (See Figure 1)

Figure 1 – Rebel™ Self Retracting Lifeline Models

				A - Steel Carabiner	B - Steel Snap Hook	C - Steel Swiveling Snap Hook	D - Steel Rebar Hook
Swivel End	Lifeline End	Model	Swivel End	Lifeline End			
<p>Single SRL Models</p>		ANSI	3100400		1		
			3100401			1	
			3100402				1
			3100403	1	1		
			3100404	1		1	
			3100405	1			1
		CSA	3100406		1		
			3100407			1	
			3100408				1
			3100409	1	1		
			3100410	1		1	
			3100411	1			1
<p>Twin SRL Harness Mount Models</p>		ANSI	3100412	1	2		
			3100413	1		2	
			3100414	1			2
		CSA	3100415	1	2		
			3100416	1		2	
			3101257	1			2

WARNING: This product is part of a personal fall arrest, work positioning, or rescue system. The user must follow the manufacturer's instructions for each component of the system. These instructions must be provided to the user of this equipment. 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 or misuse of this product or failure to follow instructions may result in serious injury or death.

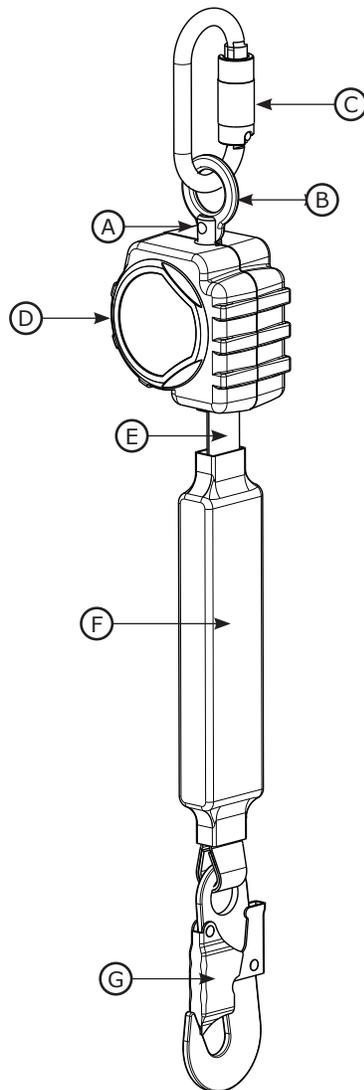
IMPORTANT: If you have questions on the use, care, or suitability of this equipment for your application, contact Capital Safety.

IMPORTANT: Before using this equipment, record the product identification information from the ID label in the inspection and maintenance log of this manual.

DESCRIPTIONS:

Figure 2 illustrates key components of the base Rebel™ Self Retracting Lifeline (SRL). The Rebel SRLs are 6 ft. (1.8 m) lifelines, equipped with an in-line Load Indicator, which retract into a Thermoplastic Housing. Rebel SRLs are available in multiple model configurations that allow attachment to an anchorage point, single or dual mounting on a Full Body Harness, or similar equipment (see Figure 1). The Rebel SRL automatically locks at the onset of a fall to arrest the fall, but pays out and retracts lifeline during normal movement by the attached user.

Figure 2 – Rebel Self Retracting Lifeline (SRL) Components



A - Swivel **B** - Swivel Eye **C** - Carabiner (optional) **D** - Housing **E** - Web Lifeline **F** - Load Indicator **G** - Snap Hook

1.0 APPLICATIONS

- 1.1 PURPOSE:** Capital Safety Self Retracting Lifelines (SRLs) are designed to be a component in a personal fall arrest system (PFAS). Figure 1 illustrates SRLs covered by this instruction manual and their typical applications. They may be used in most situations where a combination of worker mobility and fall protection is required (i.e. inspection work, general construction, maintenance work, oil production, confined space work, etc.).
- 1.2 STANDARDS:** Your SRL conforms to the national standard(s) identified on the front cover of these instructions. Refer to local, state, and federal (OSHA) requirements governing occupational safety for additional information regarding Personal Fall Arrest Systems. Refer to the following national standards on fall protection:

ANSI	Z359.0	Definitions and Nomenclature Used for Fall Protection and Fall Arrest
ANSI	Z359.1	Safety Requirements for Personal Fall Arrest Systems, Subsystems, and Components
ANSI	Z359.2	Minimum Requirements for a Comprehensive Managed Fall Protection Program
ANSI	ANSI A10.32	Personal Fall Protection use in Construction and Demolition

- 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 also be aware of the operating characteristics, application limits, and the consequences of improper use.

2.0 LIMITATIONS & REQUIREMENTS

Always consider the following limitations and requirements when installing or using this equipment:

- 2.1 CAPACITY:** SRLs are designed for use by one person with a combined weight (person, clothing, tools, etc.) not exceeding 310 lbs (140 kg) and at least 75 lbs (34 kg).
At no time shall more than one person connect to a single SRL for fall arrest applications.
- 2.2 MAXIMUM ARREST FORCE AND MAXIMUM ARREST DISTANCE:** SRLs documented in this instruction meet the following Arrest Force and Arrest Distance maximums:

Weight of Worker	Up to 310 lbs (140 kg)
Average Arresting Force	900 lbs (4.0 kN)
Maximum Arresting Force	900 lbs (4.0 kN)
Maximum Arrest Distance	42 in (1.07 m)

- 2.3 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:
- 5,000 lbs. (22.2 kN) for non-certified anchorages, or
 - 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. per user attached, or be designed, installed, and used as part of a complete personal fall arrest systems which maintains a safety factor of at least two, and is under the supervision of a qualified person.*

- 2.4 RESCUE PLAN:** When using this equipment, the employer must have a rescue plan and the means at hand to implement it and communicate that plan to users, authorized persons, and rescuers.
- 2.5 INSPECTION FREQUENCY:** SRLs shall be inspected by the authorized person¹ or rescuer² before each use. Additionally, inspections shall be conducted by a competent person³ other than the user, and by a factory authorized inspection entity. The competent person shall use the Inspection Schedule (Table 1) to determine appropriate inspection intervals. Inspection procedures are described in the "Inspection Checklist" (Table 2). Results of the Competent Person inspection should be recorded in the "Inspection and Maintenance Log" on the back pages of these instructions.

1 Authorized Person: A person assigned by the employer to perform duties at a location where the 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.

3 Competent Person: An individual designated by the employer to be responsible for the immediate supervision, implementation, and monitoring of the employer's managed fall protection program who, through training and knowledge, is capable of identifying, evaluating, and addressing existing and potential fall hazards, and who has the employer's authority to take prompt corrective action with regard to such hazards.

Table 1 – Inspection Schedule

Type of Use	Application Examples	Conditions of Use	Inspection Frequency	
			Competent Person	User
Infrequent to Light	Rescue and Confined Space, Factory Maintenance	Good Storage Conditions, Indoor or Infrequent Outdoor Use, Room Temperature, Clean Environments	Annually	Before each use
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	Before each use
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	Before each use

- 2.6 LOCKING SPEED:** Situations which do not allow for an unobstructed fall path should be avoided. Working in confined or cramped spaces may not allow the body to reach sufficient speed to cause the SRL to lock if a fall occurs. Working on slowly shifting material, such as sand or grain, may not allow enough speed buildup to cause the SRL to lock. A clear path is required to assure positive locking of the SRL.
- 2.7 NORMAL OPERATIONS:** Normal operation will allow the full length of the lifeline to extend and retract with no hesitation when extending and no slack when retracting as the worker moves at normal speeds. If a fall occurs, a speed sensing brake system will activate, stopping the fall and absorbing much of the energy created. For falls which occur near the end of the lifeline travel, a reserve lifeline system or Load Indicator has been incorporated to assure a reduced impact fall arrest. If the SRL has been subjected to fall forces, remove the SRL from service, mark "UNUSABLE", and dispose of in the recommended manner (see "Section 5.4 - Disposal"). Sudden or quick movements should be avoided during normal work operation, as this may cause the SRL to lock up.
- 2.8 FREE FALL:** When anchored overhead, SRLs will limit the free fall distance to 2 ft. (61 cm) or less. To avoid increased fall distances, anchor the SRL directly above the worker. Avoid working where your lifeline may cross or tangle with that of another worker. Avoid working where an object may fall and strike the lifeline; resulting in loss of balance or damage to the lifeline. Do not allow the lifeline to pass under arms or between legs. Never clamp, knot, or prevent the lifeline from retracting or being taut. Avoid slack line. **Do not lengthen SRL by connecting a lanyard or similar component without consulting Capital Safety.**
- 2.9 FALL CLEARANCE:** Figure 3A illustrates Fall Clearance requirements. Ensure adequate clearance exists in the fall path to prevent striking an object during a fall. If the worker will be working at a position that is not directly below the SRL anchorage point, the clearance required and vertical fall distance will be greater.
- 2.10 SWING FALLS:** Swing falls occur when the anchorage point is not directly above the point where a fall occurs (see Figure 3B). The force of striking an object in a swing fall may cause serious injury. In a swing fall, the total vertical fall distance will be greater than if the user had fallen directly below the anchorage point, thus increasing fall clearance required to safely arrest the user. Use Figure 3A to determine the fall clearance for your application. Minimize swing falls by working as directly below the anchorage point as possible. Never permit a swing fall if injury could occur.
- 2.11 HAZARDS:** Use of this equipment in areas where surrounding hazards exist may require additional precautions to reduce the possibility of injury to the user or damage to the equipment. Hazards may include, but are not limited to: high heat, caustic chemicals, corrosive environments, high voltage power lines, explosive or toxic gases, moving machinery, sharp edges, or overhead materials that may fall and contact the user or fall arrest system.
- 2.12 SHARP EDGES:** Avoid working where the lifeline will be in contact with or abrade against unprotected sharp edges. Where contact with a sharp edge is possible, cover the edge with a protective material.
- 2.13 BODY SUPPORT:** A Full Body Harness must be used with the Self Retracting Lifeline. The harness connection point must be above the user's center of gravity. A body belt is not authorized for use with the Self Retracting Lifeline. If a fall occurs when using a body belt it may cause unintentional release and possible suffocation because of improper body support.
- 2.14 COMPATIBILITY OF COMPONENTS:** Unless otherwise noted, Capital Safety equipment is designed for use with Capital Safety approved components and subsystems only. Substitutions or replacements made with non approved components or subsystems may jeopardize compatibility of equipment and may affect 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.

Figure 3 – Fall Clearance and Swing Falls

Figure 3A:

Clearance required in feet (meters) between Working Level and Nearest Obstruction for User with Total Weight up to 310 lbs (140 kg). Do not tie off below the harness Dorsal D-Ring.

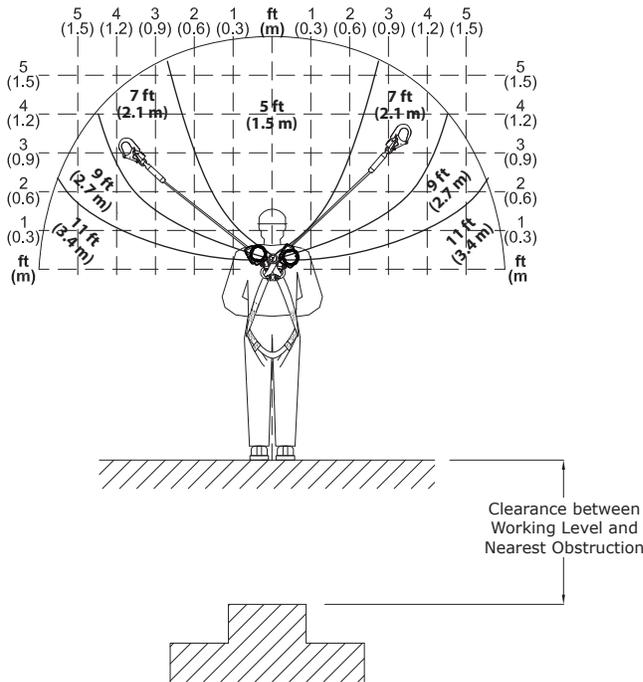
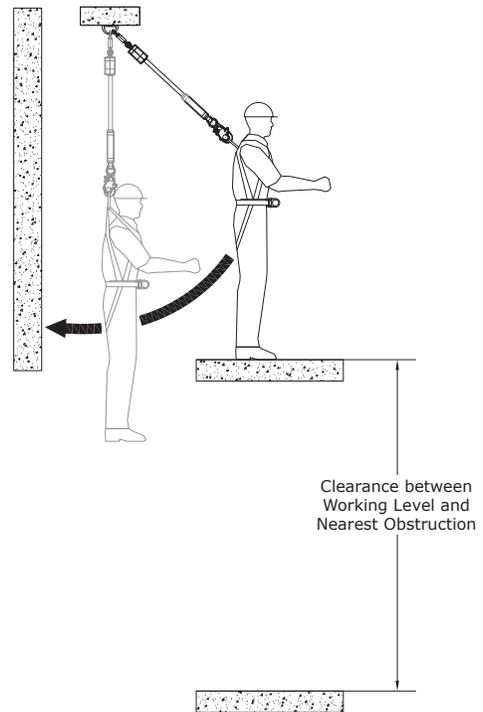


Figure 3B:

Swing Falls



To determine the clearance required: Measure the distance from the user's harness dorsal connection to the anchorage for the Rebel SRL. Both horizontal and vertical distances are required. Use Figure 3A above to determine the required clearance between the working level and the nearest obstruction. The dotted lines in the figure represent 1 foot (0.3 m) increments from the user's harness dorsal connection to the anchorage. For example, 7 ft (2.1 m) of clearance is required when the Rebel unit is anchored 3 1/2 ft (1 m) above and 3 1/2 ft (1 m) to the side of the user's harness dorsal connection.

NOTE: The clearances provided above assume the fall occurs from the standing position. If the worker is kneeling or crouching an additional 3 ft (0.9 m) of clearance is needed.

2.15 COMPATIBILITY OF CONNECTORS: Connectors are considered to be 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. Contact Capital Safety if you have any questions about compatibility.

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. Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage (see Figure 4). Connectors must be compatible in size, shape, and strength. Self-locking snap hooks and carabiners are required by ANSI Z359 and OSHA.

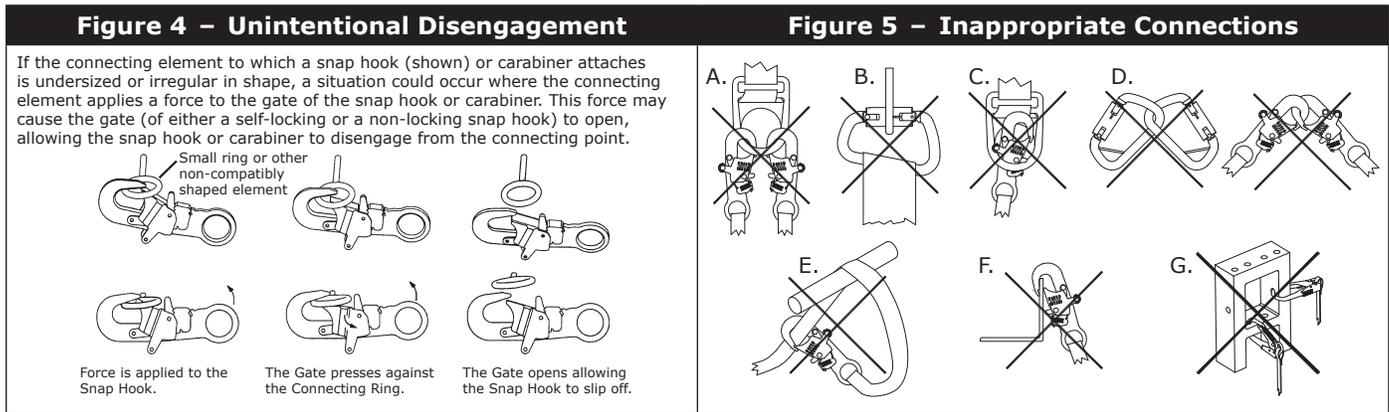
2.16 MAKING CONNECTIONS: Snap hooks and carabiners used with this equipment must be self-locking. Ensure all connections are compatible in size, shape and strength. Do not use equipment that is not compatible. Ensure all connectors are fully closed and locked.

Capital Safety connectors (snap hooks and carabiners) are designed to be used only as specified in each product’s user’s instructions. See Figure 5 for examples of inappropriate connections. Do not connect snap hooks and carabiners:

- A. To a D-ring to which another connector is attached.
- B. In a manner that would result in a load on the gate.

NOTE: Large throat snap hooks should 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 Z359.1-2007 or 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.

- C. 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.
- D. To each other.
- E. Directly to webbing or rope lanyard or tie-back (unless the manufacturer’s instructions for both the lanyard and connector specifically allows such a connection).
- F. To any object which is shaped such that the snap hook or carabiner will not close and lock, or that roll-out could occur.
- G. In a manner that does not allow the connector to align properly while under load.



3.0 INSTALLATION

3.1 PLANNING: Plan your fall protection system before starting your work. Account for all factors that may affect your safety before, during, and after a fall. Consider all requirements and limitations defined in Section 2.

IMPORTANT: In most applications, the Rebel SRL can be connected to the anchorage or the harness Dorsal location. Either orientation is allowed.

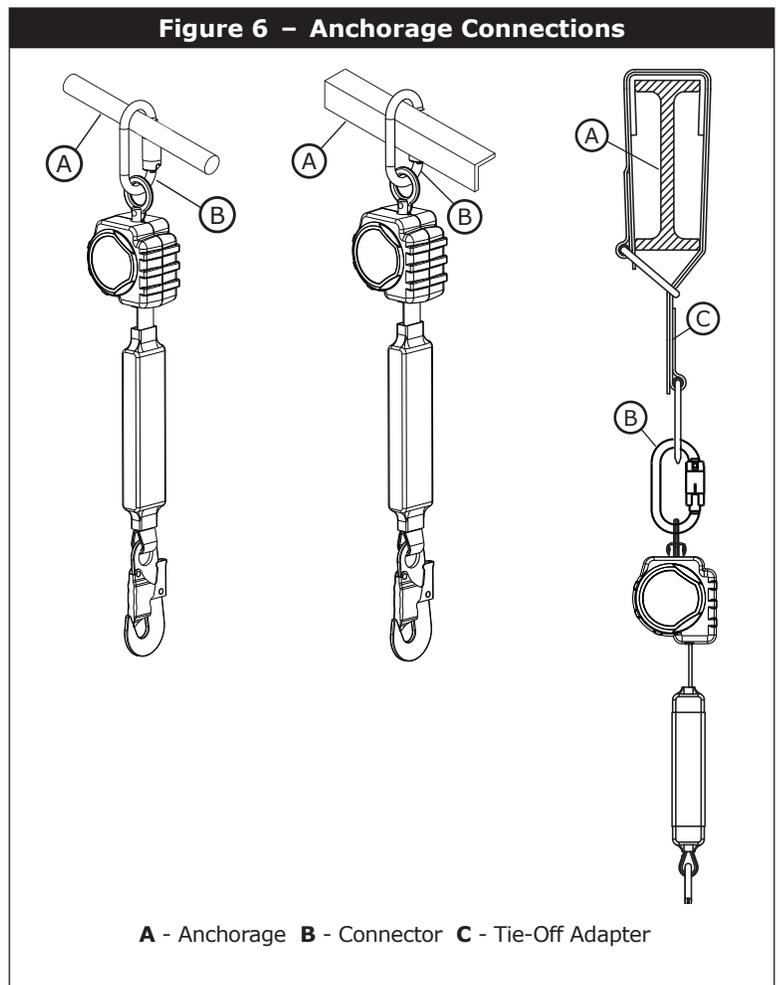
3.2 ANCHORAGE: Figure 6 illustrates typical SRL anchorage connections. Select an anchorage location with minimal free fall and swing fall hazards (see Section 2). Select a rigid anchorage point capable of sustaining the static loads defined in Section 2.2. **Rebel SRLs must always be anchored at or above the user's Dorsal D-Ring.**

IMPORTANT: It is recommended that this equipment be installed under the supervision of a qualified person, as defined by OSHA 1910.66, Appendix C.

3.3 HARNESS MOUNTING OPTIONS:

Single SRL Full Body Harness Mounting:

The Rebel SRL can be connected to the harness dorsal D-Ring with a Carabiner or Snap Hook. (See Figure 8, connection examples 1 and 2). Some Rebel models include a Carabiner. All include a Snap Hook.



Connect the Swivel Eye (Rebel components identified in Figure 2) to the D-Ring on the harness using the Carabiner included with some Rebel models (or use a suitably rated connector), or use the included Snap Hook to connect to the D-Ring. The opposite end of the Rebel must be connected to an anchorage point (see Section 2.3) with an included Carabiner (or a suitably rated connector), or the included Snap Hook.

Twin SRL Harness Mounting using a Carabiner: Some Rebel SRL models include a Carabiner (identified in Figure 2) which can connect two Rebel SRLs to a Full Body Harness when climbing applications require 100% tie-off. The Carabiner mounts two Rebel SRLs side-by-side just below the harness Dorsal D-Ring. (See Figure 8, connection example 3)

To mount two Rebel SRLs on a Full Body Harness with the Carabiner: (See Figure 7)

- 1. Loosen the Harness Webbing:** Pull out on the Web Straps (A) where they pass through the bottom of the Dorsal D-Ring (B) until there is sufficient space to slide the Carabiner between the Web Straps and D-Ring Pad.
- 2. Open the Triple-Action Carabiner:** Lift up on the Carabiner Gate (1) and twist it 45 degrees (2) to align the slot in the gate with the Carabiner frame. Push the Gate (3) inward to open the Carabiner.
- 3. Mount the first Rebel SRL on the Carabiner:** Insert the Carabiner through the Swivel Eye (C) on the SRL.
- 4. Insert the Carabiner through the Web Straps:** With the Carabiner Gate held open, insert the Carabiner behind the Web Straps. Rotate the Carabiner behind the Web Straps until the Carabiner surrounds the the Web Straps and the first Rebel SRL is positioned on the right side of the Carabiner.
- 5. Mount the second Rebel SRL on the Carabiner:** Insert the Carabiner through the Swivel Eye on the second SRL. Position the second SRL on the left side of the Carabiner Gate.
- 6. Allow the Carabiner Gate to close and lock.**
- 7. Check the mounting of both SRLs:** When properly mounted, the Carabiner should pass through the Web Straps (A) and the SRL Swivel Eyes should be secured on either side of the Carabiner Gate. Pull the Web Straps (A) back through the Dorsal D-Ring and D-Ring Pad to eliminate slack in the webbing and secure the Carabiner between the Web Straps and D-Ring Pad.

4.0 USE

WARNING: Do not alter or intentionally misuse this equipment. Consult Capital Safety when using this equipment in combination with components or subsystems 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, electrical hazards, chemical hazards, sharp edges, or overhead materials that may fall onto the lifeline. Do not loop the lifeline around small structural members. Failure to heed this warning may result in equipment malfunction, serious injury, or death.

WARNING: Consult your doctor if there is reason to doubt your fitness to safely absorb the shock from a fall arrest. Age and fitness seriously affect a worker's ability to withstand falls. Pregnant women or minors must not use self retracting lifelines.

- 4.1 BEFORE EACH USE:** Before each use of this fall protection equipment carefully inspect it to assure it is in good working condition. Check for worn or damaged parts. Ensure all fasteners are present and secure. Check that the lifeline is retracting properly by pulling out the line and allowing it to slowly retract. If there is any hesitation in retraction, remove the SRL from service, mark "UNUSABLE", and dispose of in the recommended manner (see "Section 5.4 - Disposal"). Inspect the lifeline for cuts, frays, burns, crushing and corrosion. Check locking action by pulling sharply on the line. See Section 5 for inspection details.
- 4.2 AFTER A FALL:** Any equipment which has been subjected to the forces of arresting a fall or exhibits damage consistent with the effect of fall arrest forces as described in Section 5, must be removed from service immediately, marked "UNUSABLE", and disposed of in the recommended manner (see "Section 5.4 - Disposal").
- 4.3 BODY SUPPORT:** A full body harness must be worn when using Rebel SRLs. For general fall protection use, connect to the back (dorsal) D-ring. For situations such as ladder climbing, it may be useful to connect to the front of the harness above the worker's center of gravity. This is acceptable provided potential free fall is less than 2 ft. (61 cm) and footing can be easily regained.

IMPORTANT: Do not use a body belt for free fall applications. See OSHA 1926.502 for guidelines.

- 4.4 MAKING CONNECTIONS:** Figure 8 illustrates harness and anchorage connections for Rebel SRL Fall Arrest Systems. When using a hook to make a connection, ensure roll-out cannot occur (see Figure 4). Do not use hooks or connectors that will not completely close over the attachment object. Do not use non-locking snap hooks. The anchorage must meet the anchorage strength requirements stated in section 2.3. Follow the manufacturer's instructions supplied with each system component.
- 4.5 OPERATION:** Prior to use, inspect the SRL as described in section 5.0. Figure 8 shows system connections for typical Rebel SRL applications. Connect the Rebel SRL to a suitable anchorage or mount the SRL on the back of a Full Body Harness per the instruction in Section 3. On anchorage connected SRLs, connect the Hook or Carabiner on the Load Indicator to the Dorsal D-Ring on the Full Body Harness. On harness mounted SRLs, connect the Hook or Carabiner to a suitable anchorage. Ensure connections are compatible in size, shape, and strength. Ensure hooks are fully closed and locked. Once attached, the worker is free to move about within the recommended working area at normal speeds. If a fall occurs the SRL will lock and arrest the fall. Upon rescue, remove the SRL from use. When working with an SRL, always allow the lifeline to recoil back into the device under control.

WARNING: Do not tie or knot the lifeline. Avoid lifeline contact with sharp or abrasive surfaces. Inspect the lifeline frequently for cuts, fraying, burns, or signs of chemical damage. Dirt, contaminants, and water can lower dielectric properties of the lifeline. Use caution near power lines.

- 4.6 TWIN LEG INTERFACE 100% TIE-OFF:** When two Rebel SRLs are mounted side-by-side on the back of a Full Body Harness, the SRL Fall Arrest System can be used for continuous fall protection (100 % tie-off) while ascending, descending, or moving laterally (see Figure 9). 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. The sequence is repeated until the worker reaches the desired location. Considerations for twin leg 100% tie-off applications include the following:
- Connection of each Lifeline Leg to a separate anchorage point is acceptable (Figure 9).
 - Never connect more than one person at a time to the Twin-Leg system (Figure 10).
 - Do not allow the Lifelines to become tangled or twisted together as this may prevent them from retracting.
 - Do not allow any lifeline to pass under arms or between legs during use.

4.7 HORIZONTAL SYSTEMS: In applications where the Rebel SRL is used in conjunction with a horizontal system (i.e. Horizontal Lifeline, Horizontal I-Beams Trolley), the SRL and horizontal system components must be compatible. Horizontal systems must be designed and installed under the supervision of a qualified engineer. Consult the horizontal system equipment manufacturer's instructions for details.

Figure 7 – Twin SRL Harness Connection

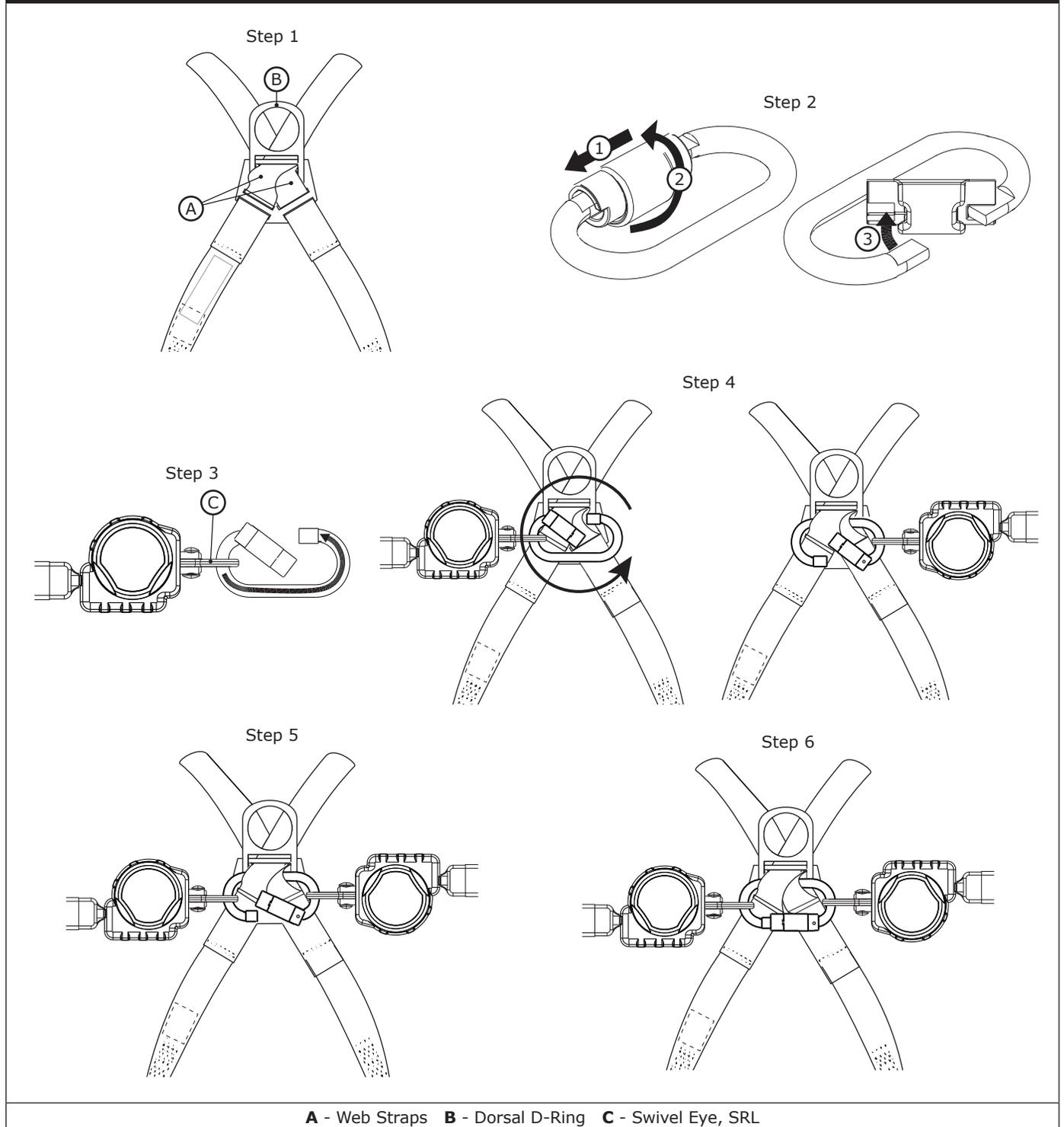
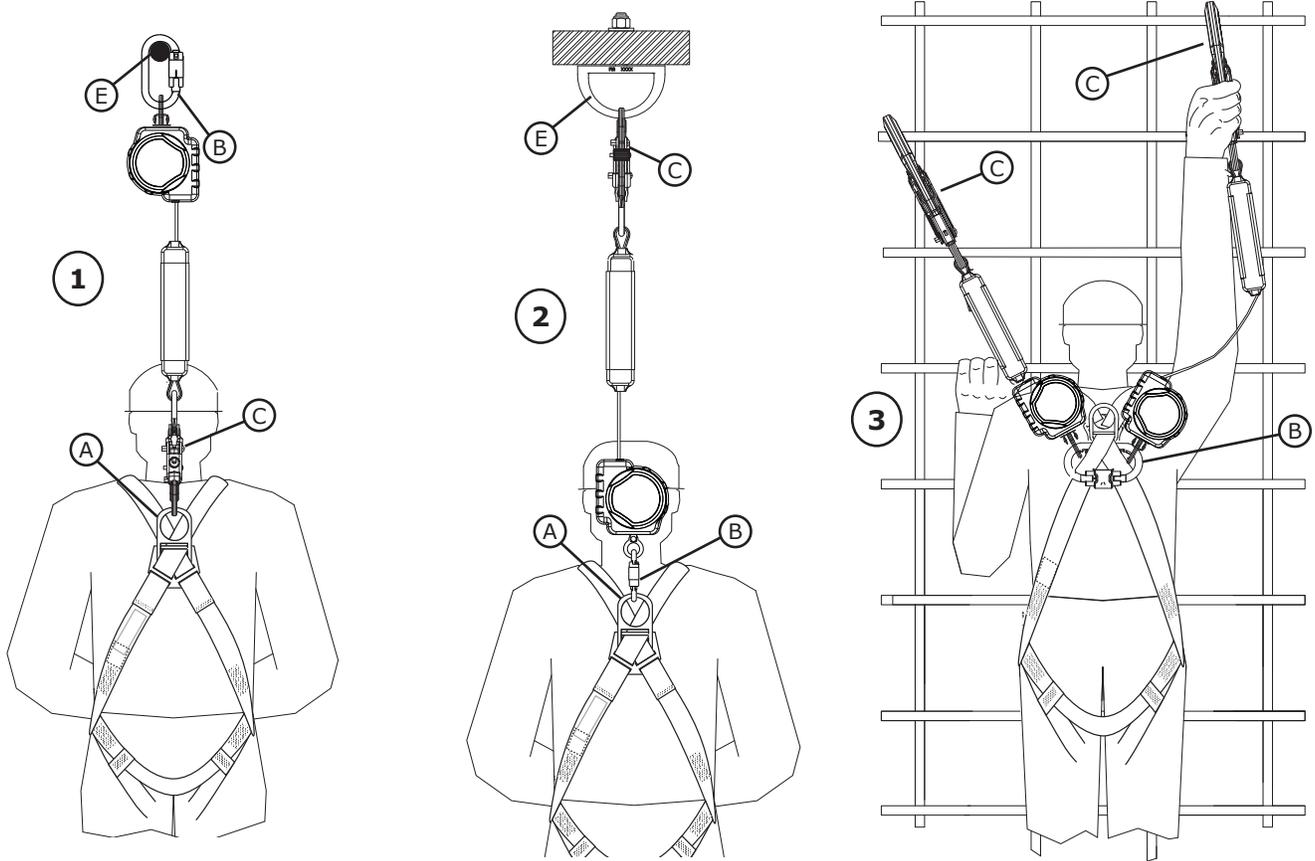


Figure 8 – Rebel SRL System Connections



A - Dorsal D-Ring B - Carabiner C - Snap Hook D - Rebar Hook E - Anchorage Point

Figure 9 – 100% Tie-Off

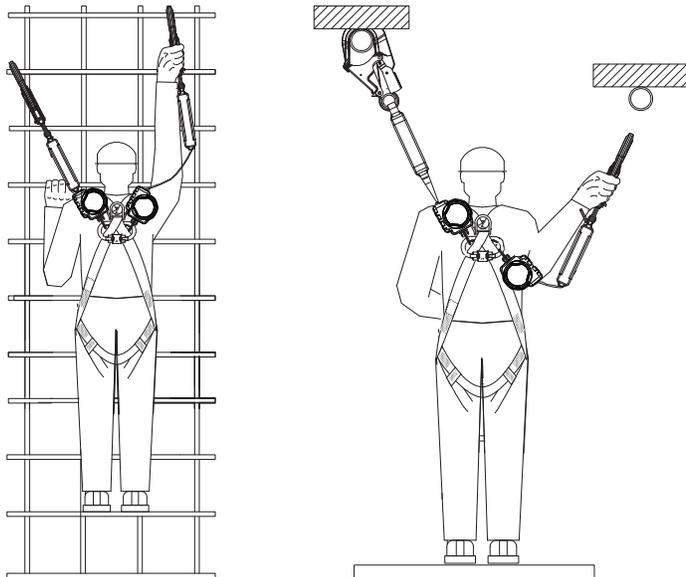
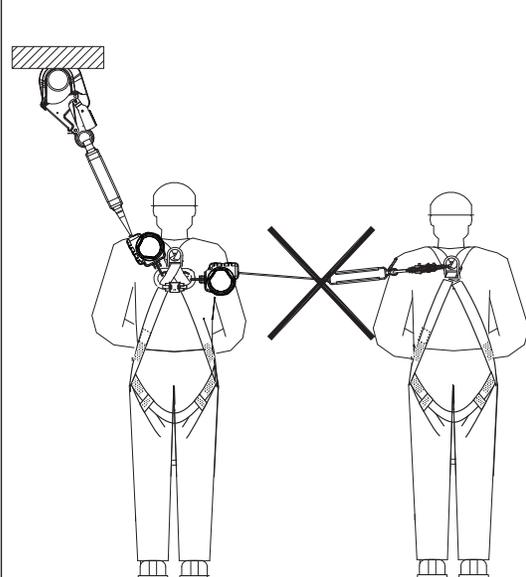


Figure 10 – Incorrect Attachment



5.0 INSPECTION

- 5.1 INSPECTION FREQUENCY:** The Rebel SRL must be inspected at the intervals defined in "Section 2.5 - Inspection Frequency". Inspection procedures are described in the "Inspection Checklist" (Table 2).
- 5.2 UNSAFE OR DEFECTIVE CONDITIONS:** If inspection reveals an unsafe or defective condition, If inspection reveals an unsafe condition, remove the SRL from service, mark "UNUSABLE", and dispose of in the recommended manner (see "Section 5.4 - Disposal").
- 5.3 PRODUCT LIFE:** The functional life of Rebel SRLs is determined by work conditions and maintenance. As long as the SRL passes inspection criteria, it may remain in service.
- 5.4 DISPOSAL:** Dispose of the Rebel SRL if it has been subjected to fall force or inspection reveals an unsafe or defective condition. Before disposing of the SRL, cut the Load Indicator off of the Web Lifeline or otherwise disable the SRL to eliminate the possibility of inadvertent reuse.

6.0 MAINTENANCE, SERVICING, AND STORAGE

- 6.1 CLEANING:** Cleaning procedures for the Rebel SRL are as follows:

- Periodically clean the exterior of the SRL using water and a mild soap solution. Position the SRL so excess water can drain out. Clean labels as required.
- Clean the Web Lifeline with water and mild soap solution. Rinse and thoroughly air dry. Do not force dry with heat. The lifeline should be dry before allowing it to retract into the housing. An excessive buildup of dirt, paint, etc. may prevent the lifeline from fully retracting back into the housing causing a potential free fall hazard.

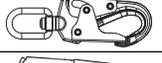
IMPORTANT: If the lifeline contacts acids or other caustic chemicals, remove the SRL from service and wash with water and a mild soap solution. Inspect the SRL per Table 2 before returning to service.

- 6.2 SERVICE:** Rebel SRLs are not repairable. If the SRL has been subjected to fall force or inspection reveals an unsafe or defective condition, remove the SRL from service, mark "UNUSABLE", and dispose of in the recommended manner (see "Section 5.4 - Disposal").
- 6.3 STORAGE:** Store Rebel 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 SPECIFICATIONS

- 7.1 PERFORMANCE:** Your Rebel SRL has been tested and certified to the performance requirements of the standard(s) identified on the cover of this instruction manual. See "Section 2.0 - Limitations & Requirements" for performance specifications.

- 7.2 MATERIALS:** Material specifications for the Rebel SRL are as follows:

Housing:	Nylon, UV Resistant	Motor Spring:	Stainless Steel	
Drum:	Nylon, Type 6/6	Swivel:	Zinc Plated Steel	
Fasteners:	Zinc Plated Steel Screws; Stainless Steel Rivets	Lifeline:	Polyester Web	
Locking Pawls:	Stainless Steel	Load Indicator	Cover: PVC Tubing Web: Polyester	
Main Shaft:	Stainless Steel			
End Connectors: (See Figure 1)	Gate Opening Gate Strength			
		Steel Carabiner	3/4 in (19 mm)	3,600 lb (16 kN)
		Steel Snap Hook	3/4 in (19 mm)	3,600 lb (16 kN)
		Steel Swiveling Snap Hook	3/4 in (19 mm)	3,600 lb (16 kN)
		Steel Rebar Hook	2 1/4 in (57 mm)	3,600 lb (16 kN)

- 7.3 LABELING:** Figure 14 illustrates Rebel SRL labeling. All labels on the SRL must be present and fully legible.

Table 2 – Inspection Checklist

Component:	Inspection:	Pass	Fail
SRL (Figure 11)	Inspect for loose fasteners and bent or damaged parts.	<input type="checkbox"/>	<input type="checkbox"/>
	Inspect the Housing (A) for distortion, cracks, or other damage.	<input type="checkbox"/>	<input type="checkbox"/>
	Inspect the Swivel (B) and Swivel Eye (C) and Carabiner (D) for distortion, cracks, or other damage. The Swivel should be attached securely to the SRL, but should pivot freely. The Swivel Eye or Integral Connector should rotate freely in the Swivel.	<input type="checkbox"/>	<input type="checkbox"/>
	The Web Lifeline (E) should pull out and retract fully without hesitation or creating a slack line condition.	<input type="checkbox"/>	<input type="checkbox"/>
	Ensure the SRL locks up when the Lifeline is jerked sharply. Lockup should be positive with no slipping.	<input type="checkbox"/>	<input type="checkbox"/>
	All labels must be present and fully legible (see Figure 14).	<input type="checkbox"/>	<input type="checkbox"/>
	Inspect the entire SRL for signs of corrosion.	<input type="checkbox"/>	<input type="checkbox"/>
Web Lifeline (Figure 12)	Inspect the web lifeline for concentrated wear, frayed strands, broken yarn, burns, cuts, and abrasions. The lifeline must be free of knots throughout its length. Inspect for excessive soiling, paint build-up, and rust staining. Inspect for chemical or heat damage indicated by brown, discolored, or brittle areas. Inspect for ultraviolet damage indicated by discoloration and the presence of splinters and slivers on the lifeline surface.	<input type="checkbox"/>	<input type="checkbox"/>
Load Indicator (Figure 13)	Inspect the Load Indicator to determine if it has been activated. There should be no evidence of elongation and the cover should be secure and free of tears or other damage.	<input type="checkbox"/>	<input type="checkbox"/>
End Connectors (Figure 1)	Figure 1 identifies the End Connectors that should be included on your Rebel SRL model. Inspect Snap Hooks, Carabiner, Rebar Hooks, etc. for signs of damage, corrosion, and proper working condition. Where present: Swivels should rotate freely, and Carabiner and Hook Gates should open, close, lock, and unlock properly.	<input type="checkbox"/>	<input type="checkbox"/>

Figure 11 – SRL Inspection

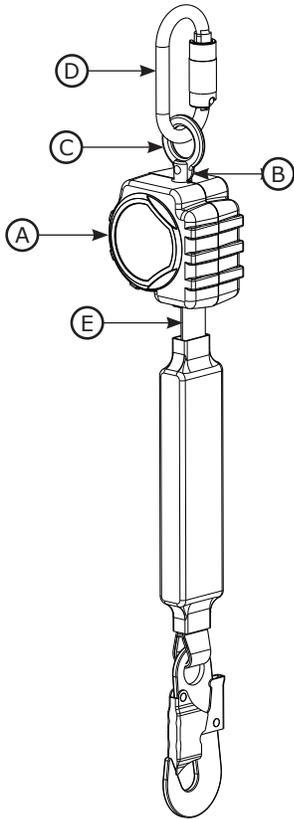


Figure 12 – Web Lifeline

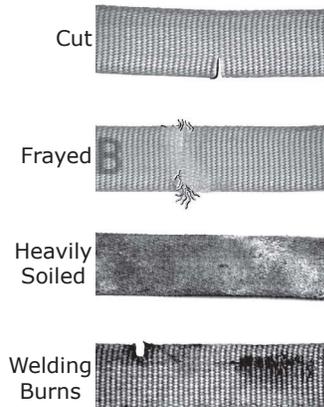
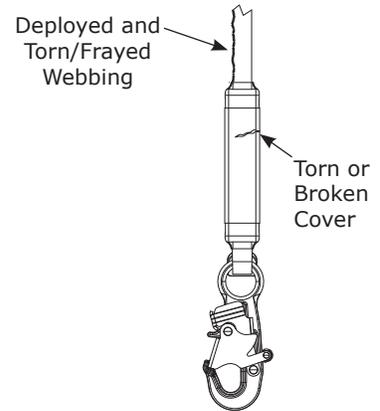


Figure 13 – Load Indicator



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