

SUPER ANCHOR SAFETY®

SideWinder[®] Self Retracting Lifeline (SRL) Instruction/Specification Manual 2023

WARNING TO USER!

ENGLISH VERSION

User Specifications

Max. User wt.: 310-310lb(59-140kg) Max. Free Fall: 24"(610mm) **Performance Specifications** Max. Arrest Distance: 54"(1.37m) Avg. Arrest force: 900lb(4kN) Max. Arrest force: 1,800lb(8kN) Lifeline Cable: 3/16"(4.8mm) min. tensile strength 3,400lb(1.5kN)

Specified Use

· Horizonal lifelines

- Max. 24" free fall over wood edges.
- · Fall restraint

Compliance

ANSI Z359.14-2014 Class B OSHA 1926.502

Part No. Length Wt.

2901k	50ft	18lb
2903k	30ft	16lb
2904k	20ft	14lb
2906k	10ft	12lb

Non-Specified Use

Leading Edge

Free falls over metal or concrete edges.

PPE Connection/Requirement

All PPE must comply with current ANSI, CSA or OSHA fall protection standards.

Fall Restraint: Connect SRL cable "B" end to the dorsal D-ring or side D-ring of a full body harness. See Fig.11b.

SRL Anchorage Point

Anchorage points including the framing or structure to which the SRL is attached must be capable of supporting 2x the intended fall protection load or the non-engineered anchorages specified below: Fall Arrest: 5,000lb(22.5kN). Fall Restraint: 3,000lb(13.6kN).

Leading Edge Fall Hazards

SideWinder's are not approved for leading edge (LE) fall hazards. LE series SRL's are fitted with a larger diameter lifeline cable and external energy absorber. For informational purposes an LE example is shown at Fig.11a. When a leading edge fall hazard is present, an SRL-LE model may be mounted at any level above the workers feet including overhead. LE models are designed to withstand free falls over wood, concrete or metal edges and must comply with ANSI Z359.14

Factory Service: SRLs subjected to a free fall, that do not pass function tests or inspections, are required to be returned to SAS factory for service or repair.

WARNING! DO NOT attempt to open the casing or make repairs. SRLs have an interior recoil spring that is capable of causing serious injury.

Service Life

The service life depends on the frequency of use, exposure to salt air and moisture, and if the unit is used indoors or outdoors. In extreme cases of contamination exposure, the SRL may require factory service during the first year of use. See Table 1.0.

Table 1.0 Service Life and Inspections

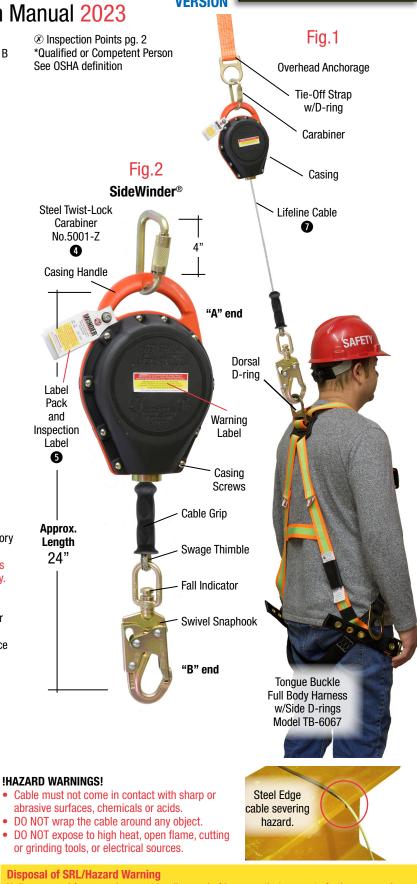
Inspections must be performed by a qualified or competent person* before being returned to service.

Type of Use	Approx. Service Life	Inspection Requirements
Indoor/Light	3-5 years	Before each use.
Indoor/Heavy	2 years +	Min. 6 months
Outdoor/Heavy	1-2 years	by a competent
Salt Air	1 year	person*

Note: Exposure to salt air, water saturation, gypsum and dust will reduce the service life.

Storage

Store indoors in a dry area and hang from the "A" end to allow moisture to drain. Do not place any objects on top of the casing to prevent casing damage.



Units removed from service must be disposed of in a way that prevents further use and prevents the possibility of someone dismantling the SRL. Due to the acute danger posed by the recoil spring, it is recommended to return non-serviceable units to the SAS factory for safe disposal.

Daily and Semi-Annual Inspections

Perform inspection/function tests for SRLs and connectors prior to each use. SRLs should be inspected by a qualified or "competent" person every 6 months and recorded on the SRL inspection label. A record of inspections, repair and removal of equipment from service should be maintained for each SRL. The following inspection points are a guideline of common conditions that occur as a result of abuse, poor maintenance or long service life. Safety personnel are responsible for drafting their own fall protection equipment inspection and maintenance program which may include the information contained in this manual.

Remove equipment from service if any of the following conditions are present:

Primary Inspection Points

1 Subjected to a free fall or other 4 Fails to pass inspection/function tests. force. 2 Obvious damage to any 5 PID labels unreadable or missing. 6 Service life is more than 5 years. component. 3 Has not been inspected annually.

⊠=Remove From Service

tests.

Connectors:

lock. 🗵

🕑 Cable Grip is missing. 🗵 Fig.5

B Snaphook and/or Carabiner ≥

Gate is bent or won't close. X

won't pass inspection or function

Obvious damaged/missing rivets.

⑥ Gate locking device is damaged. ☑ O Gate in closed position, does not

- Lifeline Cable is cut, abraded or knotted. Swage or swage thimble is damaged or missing. X Fig.5, 7 ⑧ Snaphook fall indicator is visible. ☑
- Fig.8b
- Ocasing is cracked, broken or seams are separated. X Fig.6
- O Casing handle is broken or bent. 🖾 Fia.1
- ① Casing Screws are missing. ⊠ Fig.6



Table 2.1 SRL Inspection/Lock Function Tests

Failure to pass any of these tests require the unit to be removed from service.

Test Type	Test Specification	Pass	Fail
Deployment	Pull out a few feet of cable slowly and then retract slowly.	Smooth function, no jerks or stops.	Cable won't deploy. Cable won't retract.
Brake See Fig.4	Secure "A" end from movement. Pull quickly on "B" end. Perform this test 3 times.	Cable locks up and holds position.	Cable does not lock up.
Cable	Pull out entire length of cable. Hold in place with light pressure vice grip as shown at Fig.5.	No evidence of cuts, abrasions kinks or knots.	Cable damage present.

Table 2.0 Remove from service if any test fails.

Fig.	Test Type	Function	Pass 🗹	Fail. 🗵		
2a-3a	Gate-lock	Push against gate only	Won't open	Opens.		
2b	Gate-open	Push gate-lock and gate	Opens	Won't open.		
2c	Gate-close	Release gate and gate Lock at same time	Snaps shut	Won't close and lock.		
3b-3c	Unlock gate	Rotate barrel lock	Gate opens	Won't open.		
3a	Gate closes	Release gate/barrel	Snaps shut	Won't close.		

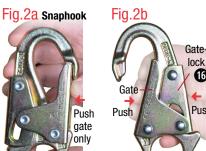




Fig.3c

Unlock gate

Gate open

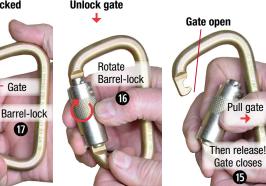


Fig.3b **Twist-Lock Carabiner**

Extend the SRL Service Life

DO NOT allow the cable to retract freely. Uncontrolled cable recoil can damage the braking system and recoil spring, causing irreparable damage.

- Salt Air or Chemical Exposure • Chemicals, salt air, gypsum, asphalt and earth dust produce oxidation and can cause interior contamination of the braking system.
- Moisture Exposure

Gate Locked

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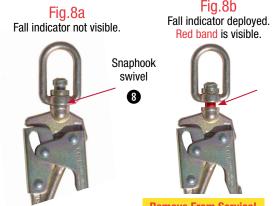
Push

Fig.3a

SRL casings are not air or water-tight. Units exposed to moisture or water saturation should be stored in a vertical position in a dry area. DO NOT store outside where salt air or moisture are present.

Fall Indicator Inspection

Fall indicators located below the Snaphook swivel will show a RED color when subjected to a force of approx. 400lb. Remove SRL immediately from service.



Remove From Service!

Anchorage Point

SRLs are designed for use where the tie-off point is located overhead for fall arrest, but may be used for fall restraint as shown on page 4. Swing-falls present the greatest hazard and will increase in severity as a worker travels away from the tie-off point as shown at Fig.10a. A fall protection plan that is specific to each job site should be provided by a competent or qualified person*. The sample plans shown here are for reference only.

Calculating the Length of Fall (LOF)

Fig.9a

The **LOF** is a factor used to determine the ground clearance **(GC)** between the work surface and the nearest lower level or an obstacle in the path of the swing-fall as shown at Fig.10a.

Sample Plan "A" LOF Standard Anchorage Attachment

Fig.9a is an example of an overhead SRL attachment. If the worker steps over the leading edge, approx. 12"-24" of cable will deploy before the SRL internal energy absorber locks up and begins to arrest the fall. See SRB factor in length of fall sample plan. It is recommended to allow a min. of 24" or more for ground clearance** and is required to be specified by a competent or qualified person*.

Note: Length of Fall (LOF) is a formula based on the maximum deployment lengths of the PPE components and other factors and is used to estimate the ground clearance (GC). Length of falls may be greater or lesser due to unforeseen variables in the factors.

Overhead SRL

Attachment

WARNING: PROMPT RESCUE!

A plan for immediate rescue is necessary to avoid serious injury, excruciating pain or death resulting from suspension trauma. Use SAS S.T.E.P. 6060 suspension ladder and provide user training in its use for each worker.

SRL Internal Energy Absorber (EA)

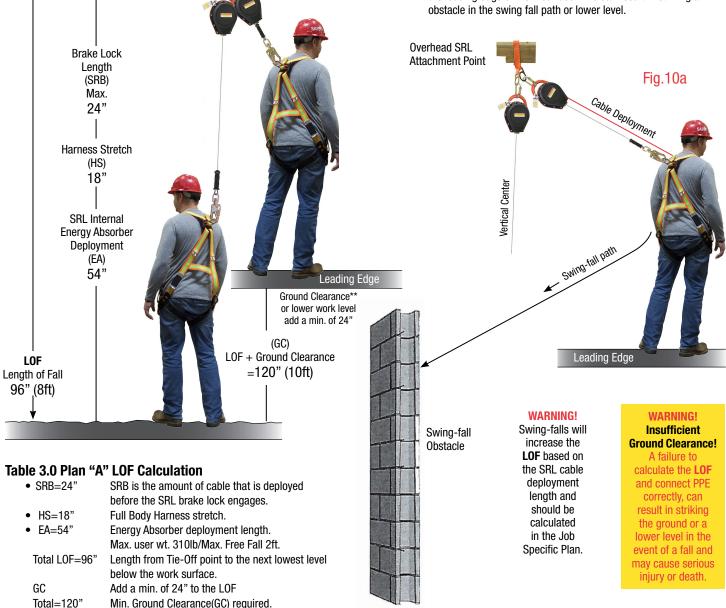
The SRL's cable brake lock system has an internal energy absorbing design that limits the maximum arrest force to 1,800lb or less when subjected to a free fall of no more than 24" with a max. user wt. of 310lb.

Sample Plan "B" Swing Fall Hazard Warning!

Fig.10a is an example of a swing fall hazard that results from moving to the left or right of the overhead vertical center. Swing falls must be avoided to prevent serious injury.

Swing Fall Example

The worker is positioned on the work surface a few feet from the SRL overhead vertical center. The deployed cable length creates a swing fall in the event the worker steps or falls over the leading edge or work surface. This can result in striking an obstacle in the swing fall path or lower level.



SideWinder Manual 2023

SUPER ANCHOR SAFETY®

English Version Page 4

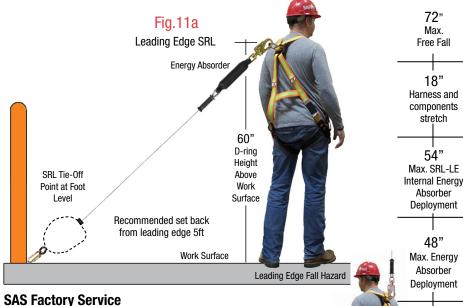
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Free Fall Hazard Warning

Non-leading edge SRL's have a max. free fall length of 24" when work is performed on structures with wood leading edges. Shown at Fig.11b, the distance between the dorsal D-ring connection to the SRL and the work surface should not exceed 24" in the event of a free fall over the leading edge.

Leading Edge (LE) Models Length of Fall Example

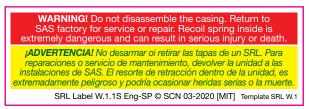
The LE free fall example shown at Fig.11a is for informational purposes only and does not apply to non-LE model SRL's. The maximum free fall distance allowed for an LE model is 6ft. The SRL tie-off position can be anywhere between overhead and foot level.



SRLs requiring warranty or service work must be returned to: Super Anchor Safety 17731-147th St SE, Monroe, WA 98272

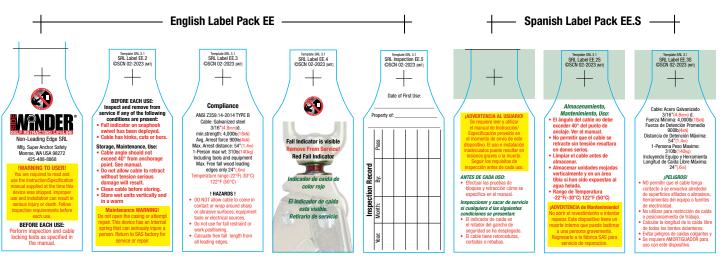
Casing Warning Label

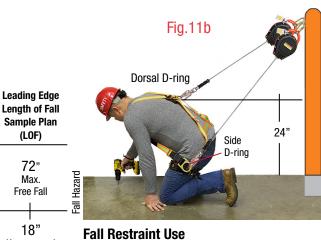
Do not attempt to repair an SRL. There is an interior recoil spring that poses a serious safety hazard.



PID Labels

English and Spanish PID labels are attached to the SRL casing as shown at Fig.2.





Fall restraint use shown at Fig.11b, requires guarding against falling over the leading edge. Use a warning line or other guarding method. The SRL connector "B" end may be attached to the dorsal D-ring or side D-ring of a full body harness.

Fall Restraint Definition OSHA 1926.751

"A means of fall protection that prevents the user from falling any distance."

WARNING! Free falls over a steel or concrete leading edge can result in severing of the SRL cable. The use of a Leading Edge (LE) model is required.

Casing Marks

LOF

192" 16ft

To ground or

next lower level

below work surface.

Inspection Record Record annual and semi-annual inspections

and date of first use.

SRL model, cable length, serial no. and DOM (date of mfg.) are engraved at the time of shipping from SAS factory.

