

User Specifications

Max. Free Fall: 24"(610mm)

Performance Specifications

Avg. Arrest force: 1,350lb(6kN)

Max. Arrest force: 1,800lb(8kN)

DO NOT connect to side D-rings.

or side D-rings. See Fig.11b.

SRL Anchorage Point

support the intended fall protection load.

Brake System: Centrifugal, 100% sst.

PPE Connection/Requirement

Max. User wt.: 130-310lb(59-140kg)

Max. Arrest Distance: 24"(610mm)

SUPER ANCHOR SAFETY®

SideWinder2[™]/SideWinder3[™] SRL's ENGLISH Instruction/Specification Manual 03-2020

Wt.

18lb

16lb

Function

Steel Auto-Lock

Carabiner No.5001Z

Compliance

OSHA 1926.502

2901A

2903A

Part No. Length

ANSI Z359.14-2012 Type A

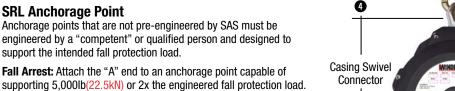
50ft

30ft

Inspection Points pg. 2

WARNING TO USER!

VERSION Fig.1 SideWinder3 Models **Overhead Anchorage** Consult SideWinder3 2020 addendum. Tie-Off Strap w/D-ring This device has a centrifugal braking system that will lock up Carabiner when the cable is subjected to a rapid movement. Release tension on the cable to unlock. Casing Fig.2 Model 2901A Wire Cable Ø "A" end



Fall Arrest: Attach the "A" end to an anchorage point capable of supporting 5,000lb(22.5kN) or 2x the engineered fall protection load. See Fig.9a.

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

Fall Restraint: Connect SRL cable "B" end to the FBH dorsal D-ring

standards and be inspected annually by a "competent" person.

Fall Arrest: Connect SRL cable "B" end ONLY to the dorsal

D-ring of a full body harness (FBH) as shown at Fig. 1.

Fall Restraint: No free fall hazard exposure. The anchorage point must be capable of supporting 3,000lb(13.6kN) or 2x the engineered fall protection load. See Fig.11b.

Leading Edge/Low Slope Fall Hazards

Horizontal tie-off points as shown at Fig.11a increase the free fall hazard to more than 24" due to the dorsal D-ring height above the work surface. When exposed to a free fall of more than 24", a personal energy absorber is required to guard against severing the wire cable during a fall. ANSI Z359.14-14 requires to use SRL-LE models when the tie-off point is between horizontal and overhead and leading edge fall hazards are present.

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.

Factory Service: SRLs subjected to a free fall, 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.

Table 1.0 Service Life and Inspections

Note that all annual (12 months) or semi-annual (6 months) inspections must be performed by a "competent" person before being returned to service.

Type of Use	Approx. Service Life	Inspections		
Indoor/Light	3-5 years	Before each use		
Indoor/Heavy	2 years +	and every 12 months		
Outdoor/Heavy	1-2 years	Before each use		
Salt Air	1 year	and every 6 months		

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.



or grinding tools, or electrical sources.

Disposal of SRL/Hazard Warning

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.

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SideWinder2/SideWinder3 Manual 03-2020

SUPER ANCHOR SAFET

English Version Page 2

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

tests.

tests.

Connectors:

lock. 🗵

4 Fails to pass inspection/function

5 PID labels unreadable or missing.

6 Service life is more than 5 years.

won't pass inspection or function

🕑 Obvious damaged/missing rivets. 🗵

⑥ Gate locking device is damaged. ☑

• Gate in closed position, does not

- 1 Subjected to a free fall or other force.
- Obvious damage to any component.
- 3 Has not been inspected annually.

⊠=Remove From Service

- ♥ Wire Cable is cut, abraded or knotted. ♥ Cable Grip is missing. Fig.5 Swage or swage thimble is damaged ^(B) Snaphook and/or Carabiner ^(X) or missing. 🗵 Fig.5, 7
- ⑧ Snaphook fall indicator is visible. ☑ Fig.8b
- Ocasing is cracked, broken or seams are separated. 🗵 Fig.6
- Casing swivel won't rotate, is damaged or missing. X Fig.1, 8
- 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.



Gate Locked

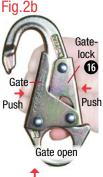
Ð

Push

Fig.3a

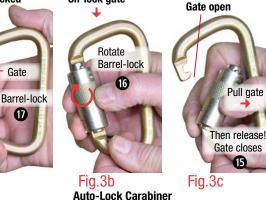
Push gate

only





Un-lock gate



Extend the SRL Service Life

Gate

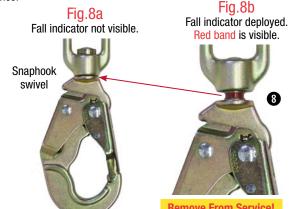
DO NOT allow the cable to retract freely.

- 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

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!

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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)

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.10b.

Sample Plan "A" LOF Standard Anchorage Attachment

Fig.9a is an example of standard overhead SRL attachment. To avoid swing-falls, travel along the work surface fall hazard as shown here should be no more than a few feet from the anchors vertical center point above. A pre-planned SRL service zone can be used to define the area of protection provided by the tie-off point.

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). Real life free falls may be greater or lesser due to unforeseen variables in the factors.



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 an extreme swing fall hazard that results from moving more than a few feet from the anchorage point above when exposed to a fall hazard at the work surface edge. Swing falls must be avoided to prevent serious injury.

Fall 168 may cause serious

injury or death.

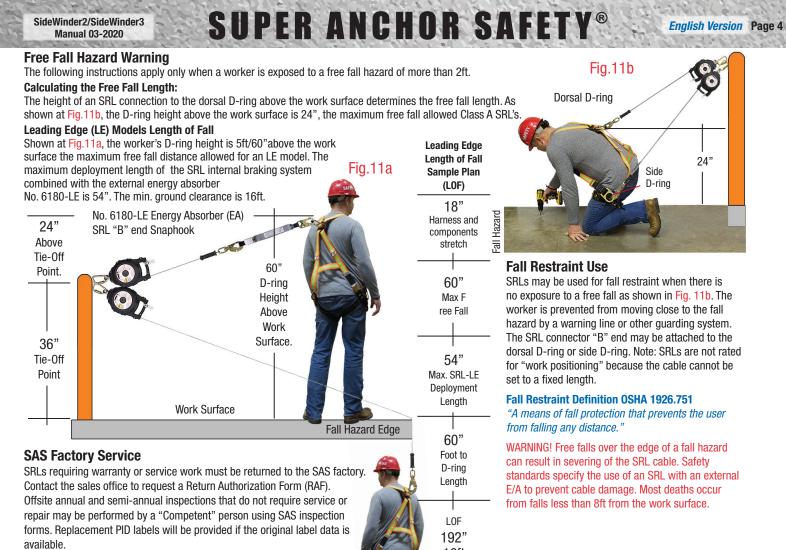
Table 3.1 Plan "B" LOF Calculation • SI = 60" The Service Length is the SPL components

				• SL=60"		is the SRL component t of the deployed SRL	
Fig.	9a 🐂				cable.		
Serv	ice	Sente	1	• SRB=12"		f cable that is deployed	
Leng		C Leg		• HS= 12"	Full Body Harness st		
(SL				• EA= 24"			
31	"	SARK		• EA= 24	Energy Absorber dep Max. user wt. 310lb/		
				• DR= 60"			
Brake Loci	k Longth	A STATE			D-ring height above		
(SRI	B)			Total LOF=168"	level below the work	point to the next lowest	
12	"' Dista			Doduct TO_ [75"] Tie-Off point height		
	ancho	prage	Tie-Off point		surface.		
Harness	Stretch poi	nt.	above work surface.	Total = 93"	Min. Ground Clearan	co(CC) required	
(HS			(TO)	10tal – 33		ce(uo) requireu.	
12	39		84"				
Free		-67					
Energy Al		507					
Deploy					0	Fig.10a	
(EA					Sei	Vice.	
24						Vice Length 60"	
				Service	— Distance from ar	abaraga	
Fig.	9b			Length	point 60		
		Work	Surface	(SL)			
				60"			
D-Ri							
Heig				Brake Lock Length	u path		
(DF 60		listance from		(SRB)	uing-fair i		
		work surface) lower level=		12"		Tie-Off point 🖉 💟	
		und Clearance.			*	above work surface.	
LOF		(GC)		Harness Stretch		(TO)	
Length of Fall		55"=4ft-7"		(HS)		75"	
139"				12"	Work S	urface	
¥				Free Fall			
				Energy Absorber			
			The second second	Deployment		WARNING!	
				(EA) 🔬		Insufficient	
Table 2 0 Diam ((A))	OF Oplawlation			24"	à	Ground Clearance!	
Table 3.0 Plan "A" L		component length			Fig.10b	A failure to	
• SL=31"	The Service Length is the SRI the amount of the deployed S			D-Ring	19.100	calculate the LOF	
• SRB=12"	SRB is the amount of cable th			Height	11 2	and connect PPE	
	before the brake lock engage			(DR)		correctly, can	
• HS=12"	Full Body Harness stretch.	ο.		60"	Distance from	result in striking	
• EA=24"	Energy Absorber deployment	lonath			work surface	the ground or a	
■ LA=24	Max. user wt. 310lb/Max. Fre				to lower level= Ground Clearance.	lower level in the	
• DR= 60"	D-ring height above the work		-	LOF	(GC)	event of a fall and	
● Dn= 00 Total L 0E 120"	D-Ing neight above the work	ouriate.		Length of	93"=7ft9"		

Total LOF=139"

below the work surface. Deduct T0=[84"] Tie-Off point height above the work surface. Total=55" Min. Ground Clearance(GC) required.

Length from Tie-Off point to the next lowest level



16ft

To ground or

next lower level

below work

surface.

Inspection Record

Annual and semi-annual

inspections should be

recorded on this label.

Enter the month (MM)

was placed in service.

and year (YYYY) the SRL

First Use:

WARNING: DO NOT attempt to repair an SRL. There is an interior recoil spring that poses a serious safety hazard.

PID (Product I.D. Labels)

PID (product i.d.) labels display critical data, model specifications and the date when an SAS service was performed. Replacement labels will display the original data provided it is available. Safety personnel performing inspections may request replacement PID labels.

