



SAS-Lifeline Reverse Rigging 2015 Addendum to Lifeline Manuals

ENGLISH
VERSION

! WARNING TO USER !
You are required to consult the most current manual for the SAS lifeline you are using before reverse rigging. This manual is an addendum and not intended to replace the lifeline instructions. Improper use and installation can result in serious injury or death. Follow lifeline inspection requirements before each use.

Reverse Rigging Definition

Lifeline connector "A" end is attached to a full body harness dorsal D-ring using an SAS energy absorber as the connecting lanyard. Lifeline "B" end is connected to the anchorage point with a Super Grab or Value Grab rope grab. Self retracting lifelines (SRL's) utilize the same principle of operation.

SAS mfg. PPE Requirements Fall Arrest Max free fall length 6ft(1.8m)

- 1) Full Body Harness w/Dorsal D-ring
- 2) Lifeline w/rope grab 4015 or 4015-V
- 3) Compatible E-4 or E-6 Energy Absorber
- 4) Class 1 connectors
- 5) OSHA/ANSI/CSA compliant anchorage device

Work Positioning: No free fall exposure

- 6) SAS Deluxe Harness w/side D-Ring

Non-Specified Use

SAS models 4015M Mechanical rope grab and 4015C Fall Arrestor are not rated for reverse rigging. Energy absorbers are not specified for attachment to the anchorage device. This manual is not applicable to equipment mfg. by others.

Rigging Method Instructions

Absorber Attachment:

As shown at Fig.1, connect energy absorber to harness dorsal D-ring. Connect lifeline "A" end to absorber web loop end or D-ring end as shown at Figs.4-5.

Rope Grab:

Attach rope grab to anchorage point and adjust lifeline length for fall arrest or work positioning as shown at Figs.2-7a-7b. Super Grab and Value Grab have bi-directional locking function and do not require directional orientation when installed onto a lifeline.

Limiter Knot:

Prior to use, fix a termination knot at the lifeline "B" end a minimum of 12"(300mm) from the rope grab as shown at Fig.2 and no more than the line slack calculation as shown on pg 4 in the lifeline manual *Length of Fall Plan* (LOFP) section. A termination knot provides a fail-safe in the event of a fall and a means to gauge the working length of the lifeline.

Free Fall Hazard Exposure

To limit free falls to no more than 6ft(1.8m), adjustments to the working length of the lifeline are required. Calculate the maximum line slack allowable in your *Length of Fall Plan* (LOFP) at all leading edges, gables, eaves and openings in the working surface.

Fig.1



Fall Arrest Rigging

Harness Dorsal D-ring

Absorber "A" end

Lifeline "B" end

Anchor

Limiter Knot

Super Grab

Absorber
Model I6061
"B" end

Working
Length

Lifeline "A" end
Connector

Rigging Example

- Hinge-2 No. 3013 anchor
- Maxima Lifeline No. 4086
- SAS Deluxe Harness
- No. 6101 w/High-Viz webbing
- All Pakka Tool Bags

Table 1: SAS Lifeline/Rope Grab/Absorber Compatibility

Model	CSA Cert. No.	Rope Grab	Absorber No.	"A" end	"B" end
3 Strand	RMRP POL001	Super Grab No. 4015 Value Grab No. 4015-V	E-4 I6061/k	Snaphook	Web Loop Small D-ring Large D-ring
	RMRP SSR001		E-4 I6018		
	RMRP DUR001		E-4 I6025		
X-Line	XLI-001/002		E-4 I6026	Web Loop Snaphook	Large D-ring
Maxima	RMRP POL002		E-6 IV6061		

Super Grab/Value Grab

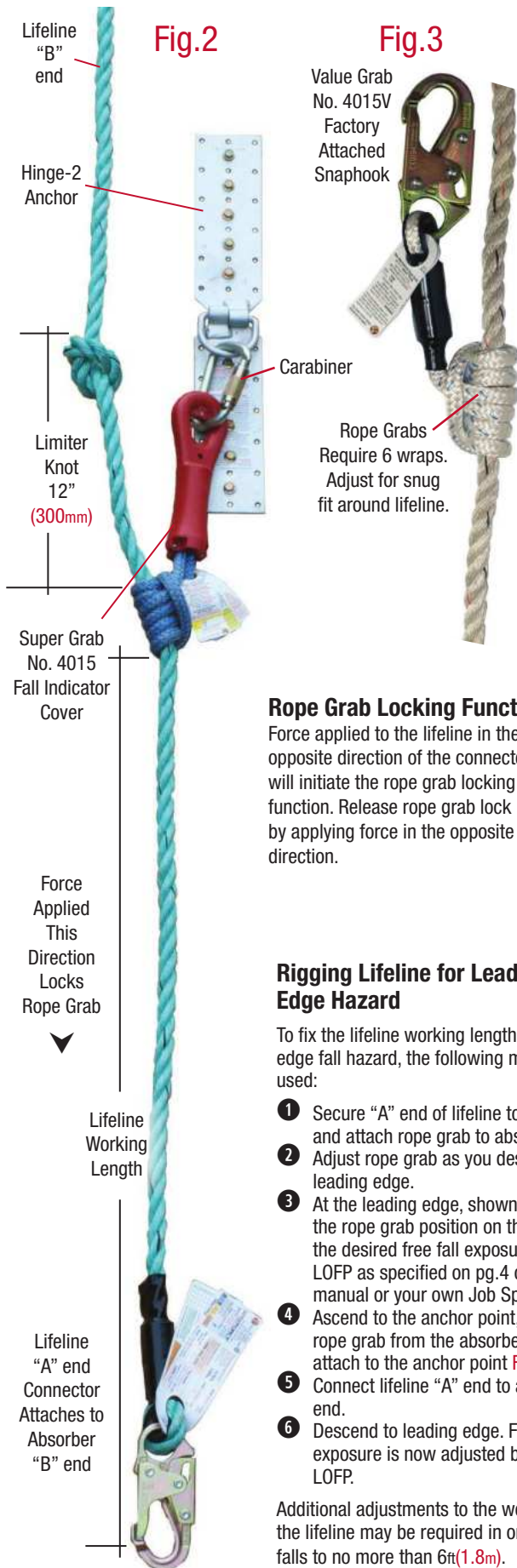
Complies: OSHA1926:502

Certified by a member of

l'Ordre des ingénieurs du Québec
Meets Safety Code for use in Québec.

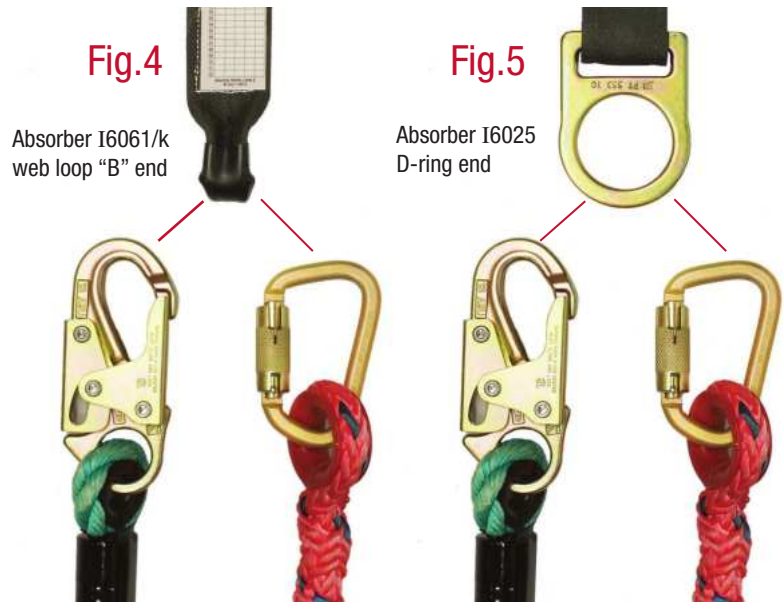
Anchorage Attachment

As shown at Fig.2, Super Grab requires a locking carabiner for anchorage attachment. Fig.3, Value Grab attaches to anchorage with factory fitted snaphook.



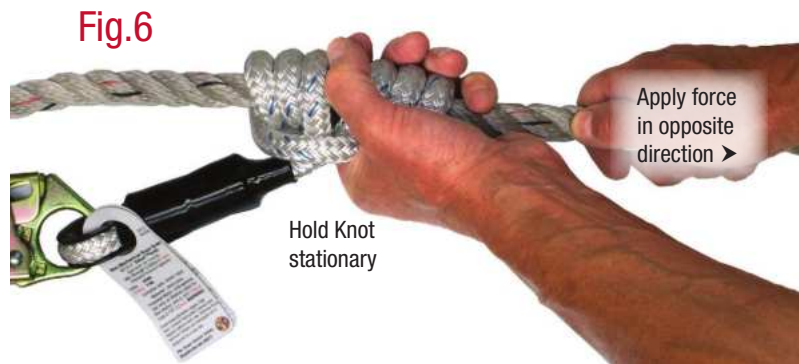
Absorber Rigging/Compatibility

As shown at Figs.4-5, absorber "B" ends are required to be fitted with a web loop or D-ring. Connectors must have 3,600lb(16kN) gate strength and comply with ANSI Z359.12-2009/CSA Z259.12-11.



Adjusting Lifeline Length

Shown at Fig.6, hold rope grab wraps at base or body and pull lifeline in opposite direction to desired length. Fix limiter knot before use. Hold Knot stationary.



Rope Grab Locking Function

Force applied to the lifeline in the opposite direction of the connector will initiate the rope grab locking function. Release rope grab lock by applying force in the opposite direction.

Rigging Lifeline for Leading Edge Hazard

To fix the lifeline working length for a leading edge fall hazard, the following method may be used:

- 1 Secure "A" end of lifeline to anchor point and attach rope grab to absorber "B" end.
- 2 Adjust rope grab as you descend to the leading edge.
- 3 At the leading edge, shown at Fig.7a, adjust the rope grab position on the lifeline for the desired free fall exposure based on the LOFP as specified on pg.4 of the lifeline manual or your own Job Specific Plan (JSP).
- 4 Ascend to the anchor point, disconnect the rope grab from the absorber "B" end and attach to the anchor point Fig.7b.
- 5 Connect lifeline "A" end to absorber "B" end.
- 6 Descend to leading edge. Fall hazard exposure is now adjusted based on your LOFP.

Additional adjustments to the working length of the lifeline may be required in order to limit free falls to no more than 6ft(1.8m).

Fig.7a



Fig.7b

