



# SUPER ANCHOR SAFETY

**SAFETY BAR™ and TRUSS BAR™**

INSTRUCTION / SPECIFICATION MANUAL 08 version.

## Part # 1100 2 x 4 Truss Bar.

**Part # 1010 2 x 4 Safety Bar** Rated for 5,000lb (2,260kg)

### Specification Of Use:

The **Safety Bar™** and **Truss Bar™** fall arrest anchorage devices are designed to attach to the top chords or other framing members of wood structures. More than one worker may be attached provided each worker does not exceed 310lb (140kg) including tools and equipment and the fall protection system has been designed by a "qualified person" (OSHA definition). The Safety Bar may be used as a temporary brace for trusses but not as an anchorage device until the framing complies with the *Framing Requirements* section of this manual.

### Framing Requirements:

Install onto top chords or rafters that are 2 x 4 (50x100mm) or larger. Framing must be capable of supporting 5,000lbs.(2,260kg) or 2 times the intended fall protection load as specified by OSHA 1926.502(d)(15)(i)(ii), or equal industrial safety standard. Do not install onto framing that is damaged, or has spliced chords.

### Truss Bar Specification:

Shown in **fig.1**, the 1.5" (37mm) diameter cross bar has two legs spaced 24" (610mm) apart. The Truss Bar is attached to the top chords by bolting underneath or by drilling through as shown in **fig. 3 and 4**. The bar is fitted with two tie-off straps which are held in place by webbing keepers. Do not attach more than one worker to one tie-off strap. Do not use as a permanent anchor. Do not attach connecting hardware to the webbing keepers.

**Attachment Bolts and Nails:** Each anchor is supplied with: 2ea. 5/16"x 2-1/4" (9 x 57mm) grade 8 bolts w/lock nuts and 2ea. 12d (82mm) stainless steel nails. Use only **SAS** fastener package # 2021.

**Tie-Off Straps #6059:** Fitted with two 24" x 1-3/4" (610 x 45mm) length red polyester webbing straps and proof loaded di-chromate plated D-rings Rated for 5,000lb (2,260kg). Evacuate tie-off straps after use by cutting off. Do not leave webbing exposed to weather for more than 1 year.

### Truss Bar Installation:

As shown in **fig. 1**, attach the bar legs over the top edge of 2 x 4 (50x100mm) top chords. To prevent movement, secure each bar leg with one 12d stainless steel nail through the 1/8" (3mm) hole in the top of the leg flange. Install the factory supplied attachment bolts as shown in **fig.3** and tighten the lock nuts to a snug fit. Exit tie-off straps through the sheathing as shown in **fig. 2**. **2 x 6 or Larger Chord:** As shown in **fig. 4**, secure the leg flanges with 12d nails. Drill through leg attachment bolt holes with a 5/16" (8 mm) bit and install attachment bolts as specified.

### Safety Bar Specification:

Shown in **fig. 5**, the red powder coated square steel cross bar is 48" (1,220 mm) wide. 3 bar legs are spaced 24" o.c. (610 mm). The cross bar is fitted with one attachment stem and one webbing keeper for an optional tie-off strap. **Detent Pins:** Legs are attached to the 2 x 4 top chords using 3/8" (9 mm) diameter detent ball lock pins. Replace detent pins with the following **SAS** parts only: Leg's A & B: #2015. Leg C: #2016.

### Safety Bar Installation:

1) As shown in **fig.6**, the l.h. leg-A and center leg-B, are designed to fit over the top edge of 2 x 4 (50x100mm) the top chords. The r.h. leg C, attaches to the side edge of the top chord allowing a truss to be rolled into position. Secure bar legs with detent pins. As shown in **fig. 7a, page 2**, depress ball lock and insert the detent pin through the leg detent pin hole **fig. 8** and release the lock button. Pull on the pin handle to ensure it is locked and can not be pulled out. Before each use, follow the inspection requirements and "Locking Function Test" on **page 2**.

2) To prevent any movement secure the bar with 12d or 16d duplex nails through the 1/8" (3mm) holes on each leg flange as shown in **fig.5**.

3) Use multiple Safety Bars in series to link several top chords together as shown in **fig.13** on **page 2**.

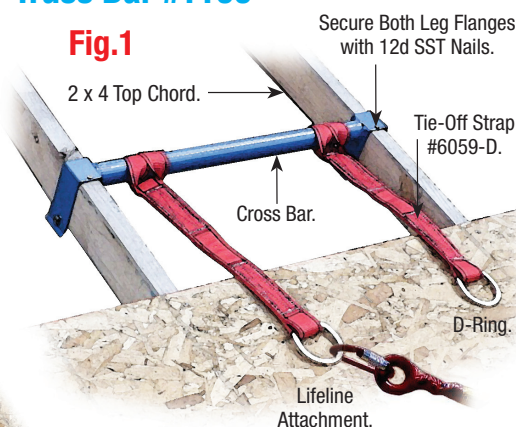
4) Before using for fall protection, all 3 bar legs must be locked onto the top chords with detent pins and the framing must comply with the *Framing Requirements* section of this manual.

### WARNING TO USER:

Use only SAS instruction/specification manuals for SAS equipment. Read and understand the information in this manual before you use this equipment. Incorrect use can result in serious injury or death. Consult the SAS-07 English/Spanish instruction manual for additional information about fall protection guidelines.

## Truss Bar #1100

**Fig.1**



**Fig.2**

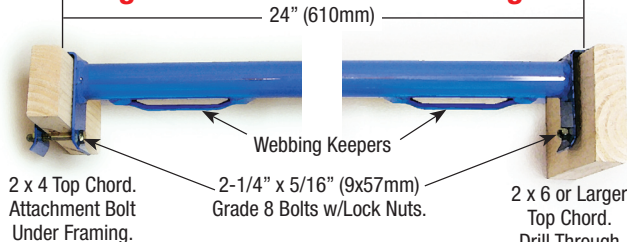


### Note:

Tie-off straps must be cinched around the cross bar and through the Webbing Keepers to prevent horizontal movement. See fig.9

**Fig.3**

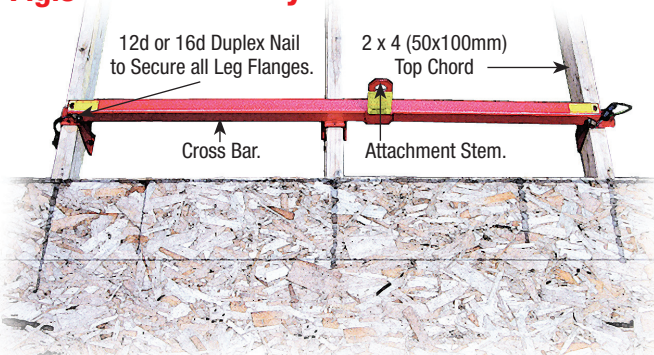
**Fig.4**



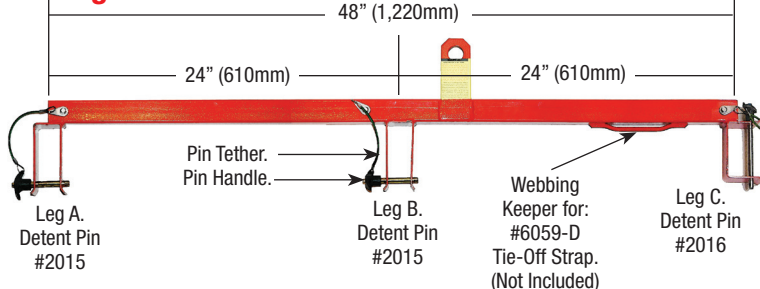
For Truss Bars fitted with detent pins, perform Detent Pin Function Test on page 2.

**Fig.5**

## Safety Bar #1010



**Fig.6**



## Required Tests and Inspections Before Each Use:

### Detent Pins Function Test:

**All Devices Fitted with Detent Pins.** 1) As shown in **fig. 7a**, depress ball lock button and release. The lock button should quickly return to the “locked” position shown in **fig. 7b**. Then push down on each locking ball, it should not move. As shown in **fig. 7c**, depress ball lock and insert pin through anchor leg holes and release ball lock button. As shown in **fig. 7d**, try to pull the detent pin out while in the locked position. The pin should not pull out! If the pin can be pulled out without depressing the ball lock button, remove the bar from service and check the following to determine the problem:

### Defective Detent Pin:

Detent pin handle is broken. Pin shaft is bent. Locking balls move when detent button is in lock position (see **fig. 7b**). Locking balls are missing or corroded. Lock button does not depress or return to lock position.

### Anchor Leg Detent Pin Hole Inspection:

If the detent pin function test and inspection passes, but the pin can be pulled out of the leg pin hole, the hole is out of round. See **fig. 8**. The bar must be removed from service and disposed of to prevent accidental use.

### Detent Pin Replacement

If the detent pin is defective, replace with factory certified part. Repeat the function test and inspection on all new detent pins before use.

### Safety / Truss Bar Inspection:

Inspect the cross bar for cuts, gouges, missing detent pins and pin leashes. Bent attachment stem, bent or twisted legs, and missing warning labels. Inspect all the welds where the legs, attachment stem, and webbing keepers are located.

Note: If webbing keepers are broken DO NOT USE for tie-off strap.

Note: Cracked or chipped paint at the weld may indicate a break in the weld joint. Remove from service if any of the above conditions are present or the bar has been subjected to a fall impact.

### Tie-Off Strap Inspection:

Remove from service if any of the followings conditions are present: Tie-off strap webbing and/or stitches are cut, abraded or have signs of heat or chemical damage. Tie-off strap D-ring is bent, deformed, twisted, gouged or cut.

### Tie-Off Strap Replacement / Webbing Keepers:

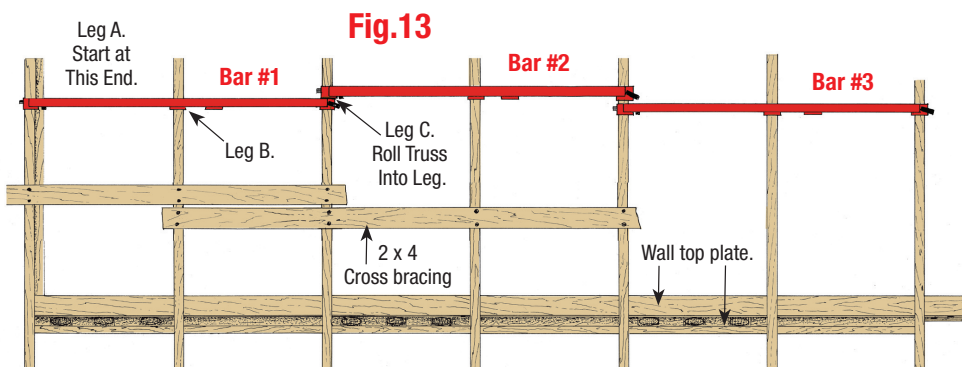
Tie-Off straps are installed as shown in **fig. 9**. Insert web loop end of strap through keeper then insert D-ring end through the loop. Cinch tightly. Use only **SAS** factory tie-off strap part# 6059-D. **Webbing Keepers** prevent horizontal movement of the tie-off strap along the cross bar when subjected to a fall or static force. Do not attach connecting hardware to keepers as shown in **fig. 12**.

### Non-Specified Use/ Non-Compatibility:

Do not tie rope or webbing directly to the stem **fig. 10**, the bar **fig. 11**, or to the detent pins or bar attachment legs. Do not attach a snaphook, carabiner, rope or webbing to the webbing keepers **fig. 12**.

### Truss / Top Chord Layout:

Safety Bar legs have nailing holes located at the top of the leg flange spaced 24” o.c. (605mm). Framing may be temporarily braced by using multiple bars in series as shown in **fig. 13**. Always start with leg A.



## Detent Locking Pins

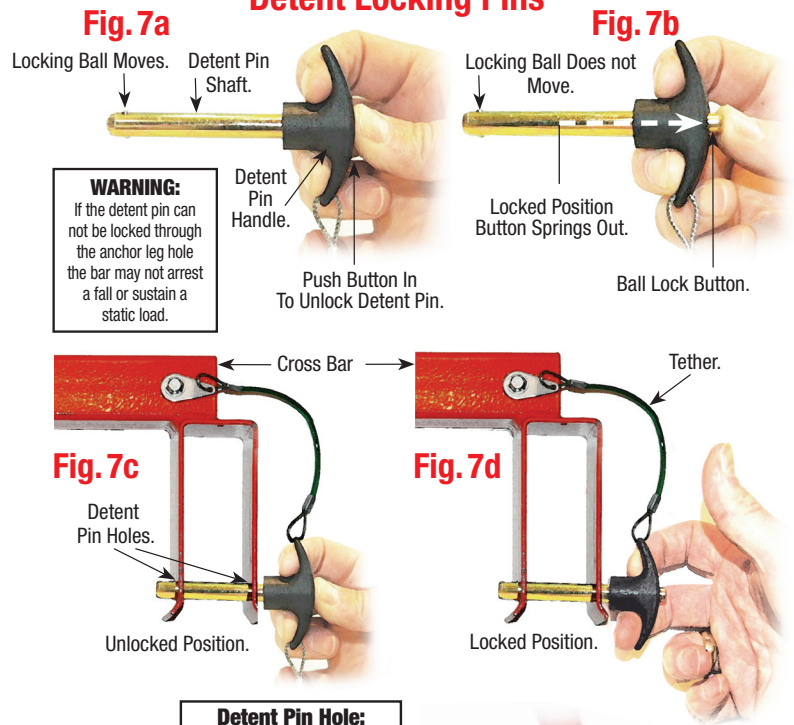


Fig. 8

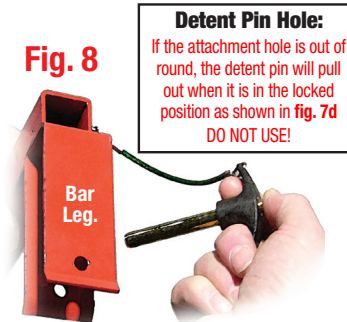
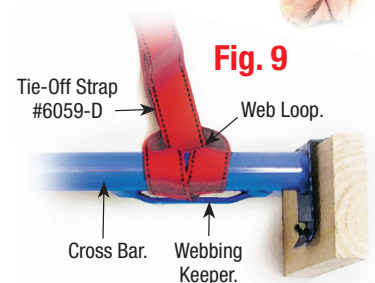
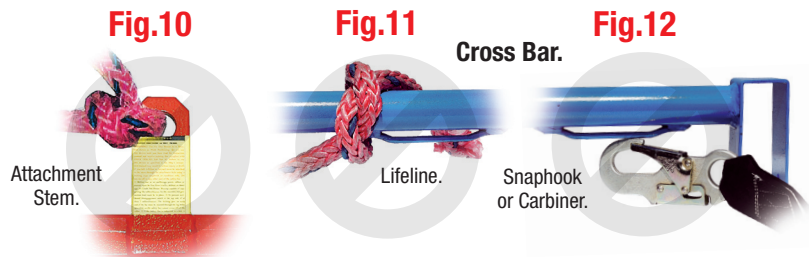


Fig. 9



## Wrong Types of Connector Attachments



### Hazards Warning:

When braced to support the intended fall protection load, Safety and Truss Bar's may be used on partially sheathed or open framed structures. When exposure to a free fall or swing fall through open framing is present, the use of cross bracing over the top chords, as shown in **fig. 13**, can be used as a means of guarding.

Fig. 14

Replacement Parts:	Part #
2 x 4 Truss Bar Bolt on	1100
2 x 4 Truss Bar Fitted with Detent Pins	1101
Fastener 2ea. 2-1/4" x 5/16" w/nut package. 2ea. 12d SST Nail	2021
Tie-Off Strap 24"(605mm)w/D-ring.	6059-D
2 x 4 Safety Bar	1010
2.2" (60mm) Detent Pin w/Tether	2015
4.3" (110mm) Detent Pin w/Tether	2016