



SUPER ANCHOR SAFETY

SAFETY BAR™ and TRUSS BAR™ Instruction/Specification Manual 2011

Part N°1010-2x4 /1011-2x6 Safety Bar

Part N°2831-Bolt on/N°2832w/Detent Pins 2x4 Truss Bar.

A-36 Powder Coated Steel. Rated at 5,000lb (22kN)

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).

Energy Absorber is required. 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 2x4 or larger. Framing must be capable of supporting 5,000lb (22kN) 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 over the top of spliced chords.

Truss Bar Specification:

Shown at **Fig.1**, the 1-1/2" diameter cross bar legs are spaced 24" o.c. 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" grade 8 bolts w/lock nuts and 2ea. 12d stainless steel nails. Use only **SAS** fastener package # 2021.

Tie-Off Straps #6050-D: Fitted with two 24" x 1-3/4" length red polyester webbing straps and proof loaded di-chromate plated D-rings rated for 5,000lb (22kN). 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 at **Fig. 1**, attach the bar legs over the top edge of 2x4 top chords. To prevent movement, secure each bar leg with one 12d stainless steel nail through the 1/8" hole in the top of the leg flange. Install the factory supplied attachment bolts as shown at **Fig.3** and tighten the lock nuts to a snug fit. Exit tie-off straps through the sheathing as shown at **Fig. 2**. **2x6 or Larger Chord:** As shown at **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 at **Fig. 5**, the red powder coated square steel cross bar is 48" wide. 3 bar legs are spaced 24" o.c. 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 2x4 top chords using 3/8" diameter detent ball lock pins. Replace detent pins with the following SAS parts only: Leg's A & B: #2015. Leg C: #2016.

NOTE: Safety Bars mfg. before 04-2011 do not have center leg detent pin or webbing keeper and are rated for single person use only. Bars may be retrofitted upon request.

Safety Bar Installation:

1) Shown at **Fig.6**, leg-A and leg-B, fit over the top edge of 2x4 top chords. 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 shown at **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, perform inspection and "Locking Function Test" on **page 2**.

2) Secure the bar with 12d or 16d duplex nails through the 1/8" holes on each leg flange shown at **Fig.5**.

3) Use multiple Safety Bars in series to link several top chords together shown at **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-2011** instruction manual for additional information about fall protection guidelines.

Truss Bar™ Part N°2831 Bolt on

Fig.1

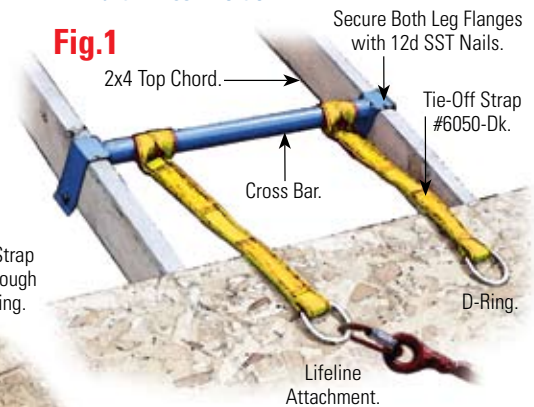
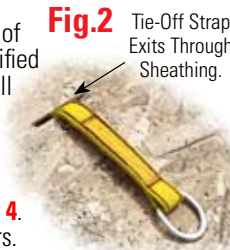


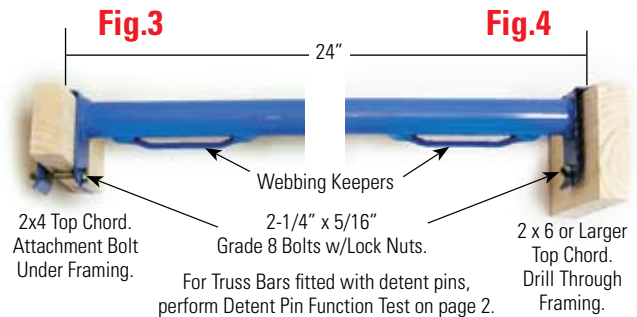
Fig.2



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



Safety Bar™

Part N°1010-2x4 / N°1011-2x6 Safety Bar

Fig.5

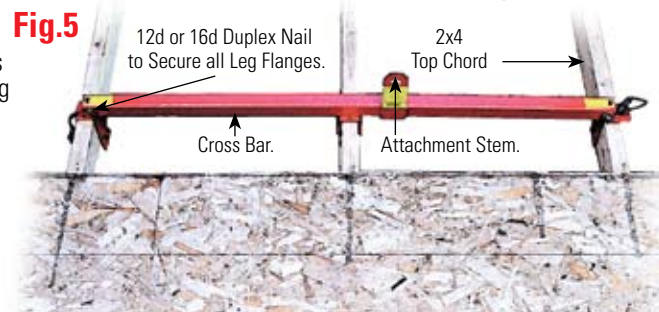
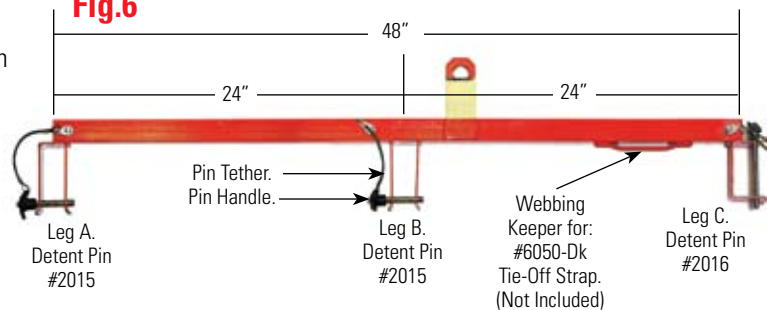


Fig.6



SUPER ANCHOR SAFETY

Required Tests and Inspections Before Each Use:

Detent Pins Function Test: All Devices Fitted with Detent Pins:

1) **Fig. 7a**, depress ball lock button and release. The lock button should quickly return to the "locked" position shown at **Fig. 7b**. Then push down on each locking ball, it should not move. **Fig. 7c**, depress ball lock and insert pin through anchor leg holes and release ball lock button. Shown at **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:

Replace defective detent pins 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:

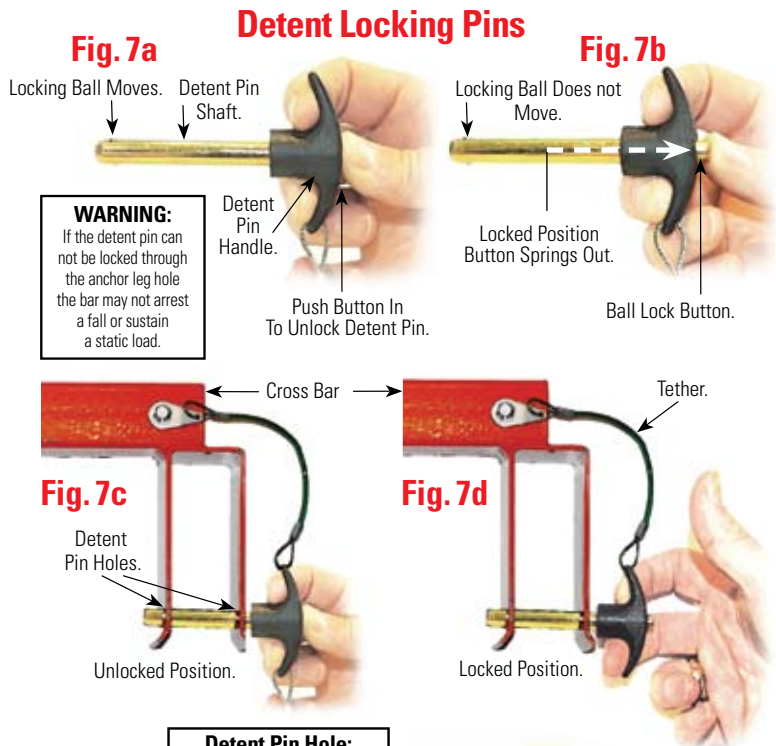
Remove from service if any of the following conditions are present: Tie-off strap webbing and/or stitches are cut, abraded or have signs of heat or chemical damage. Tie-off strap D-ring is bent, deformed, twisted, gouged or cut.

Tie-Off Strap Replacement / Webbing Keepers:

Tie-Off straps are installed as shown at **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# 6050-Dk. 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 at **Fig. 12**.

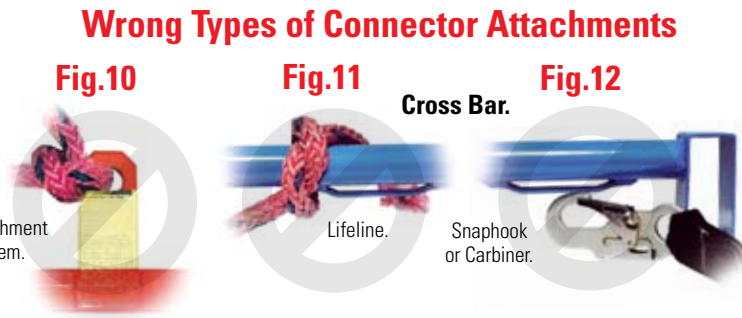
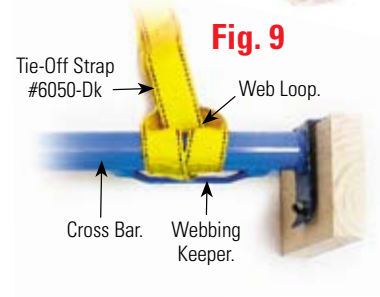
Non-Specified Use/ Non-Compatibility:

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 snap-hook, carabiner, rope or webbing to the webbing keepers **Fig. 12**.



WARNING:
If the detent pin can not be locked through the anchor leg hole the bar may not arrest a fall or sustain a static load.

Fig. 8 **Detent Pin Hole:**
If the attachment hole is out of round, the detent pin will pull out when it is in the locked position as shown in fig. 7d DO NOT USE!



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 at **Fig. 13**, can be used as a means of guarding.

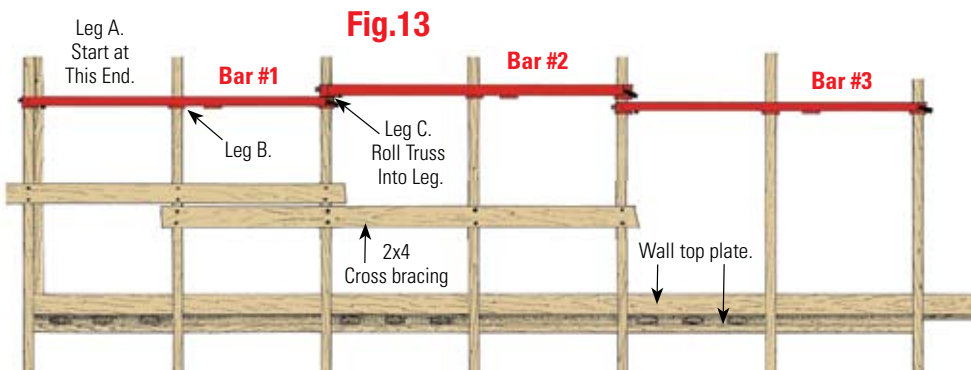


Fig. 14

Replacement Parts:	Part #
2x4 Truss Bar Bolt on	2831
2x4 Truss Bar Fitted with Detent Pins	2832
Fastener 2ea. 2-1/4" x 5/16" w/nut package. 2ea. 12d SST Nail	2021
Tie-Off Strap 24"(605mm)w/D-ring.	6050-Dk
2x4 Safety Bar	1010
2.2" (60mm) Detent Pin w/Tether	2015
4.3" (110mm) Detent Pin w/Tether	2016