SUPER ANCHOR SAFETY®

ARS No.1014 Temporary Anchor Instruction/Specification Manual 2022

ENGLISH VERSION

!WARNING TO USER!
You are required to read and use the Instruction/ Specification manual supplied at the time this device was shipped. Improper use and installation can result in serious injury or death. Follow inspection requirements before each use.

Materials Specifications
Anchor: 11ga. 430 stainless steel
Finish: Powder coated
Min. Tensile Strength: 5,000lb(22.5kN)
Temperature Range: -30ºF up to +120ºF
SAS Detent Pin: No.2015-2.2-6
SAS No.2006 Bolt Kit: 5/16"x2-1/4" grd.8 w/lock or wing nut
SAS **=Super Anchor Safety**.

Compliance:OSHA1926.502
ANSI Z359.1-07

Specification of Use
Temporary Fall Protection: Installed onto wood or steel framed top chords when used with a SAS supplied detent pin.
Permanent Fall Protection: When installed with SAS supplied ARS bolt kit No.2006.

Fall Protection Specification
Fall Arrest or Fall Restraint for one person with a maximum body weight of 310lb(140kg) including tools and equipment. Do not attach more than 1 person or 1 connector to an ARS anchor.
Slope: Maximum Slope 24/12
Service Angle: Fall Arrest max. 30° off vertical center.
See Table 1, Fig.7 and Fig.8.

Non-Specified Use
Warning! Do not use for:
- Window washing anchors
- Horizontal lifeline system
- Work positioning

Detent Pin/Bolt Installation
Top Chord Underside Detent Pin: Attach to 2x4, 2x6 or 2x8 top chord. Insert detent pin thru top chord size pin hole as shown at Fig.2.
Drill Thru Detent Pin: Top chords larger than 2x8, drill a 3/8" up to 1/2" hole thru the top chord as shown at Fig.3.
Bolt Attached: Shown at Figs.9 and 10, use ARS bolt kit No.2006

Sheathing/Cross-Brace Blocking
To prevent unintentional disengagement or movement of the anchor on the top chord during use or if subjected to in service loading, cross bracing or sheathing is REQUIRED to be installed below the anchor as shown at Figs.4 and 5. Sheathing or cross bracing must span a min. of 3 top chords.
Warning! Provide guarding against plunge falls thru open sheathing.

PPE/Energy Absorber
PPE equipment are required to be attached to the anchor connector hole and must have 3,600lb(16kN) locking gates that comply with current ANSI, CSA or OSHA safety standards.
WARNING! The use of a personal energy absorber (E/A) is required.

Fig.1
ARS No.1014

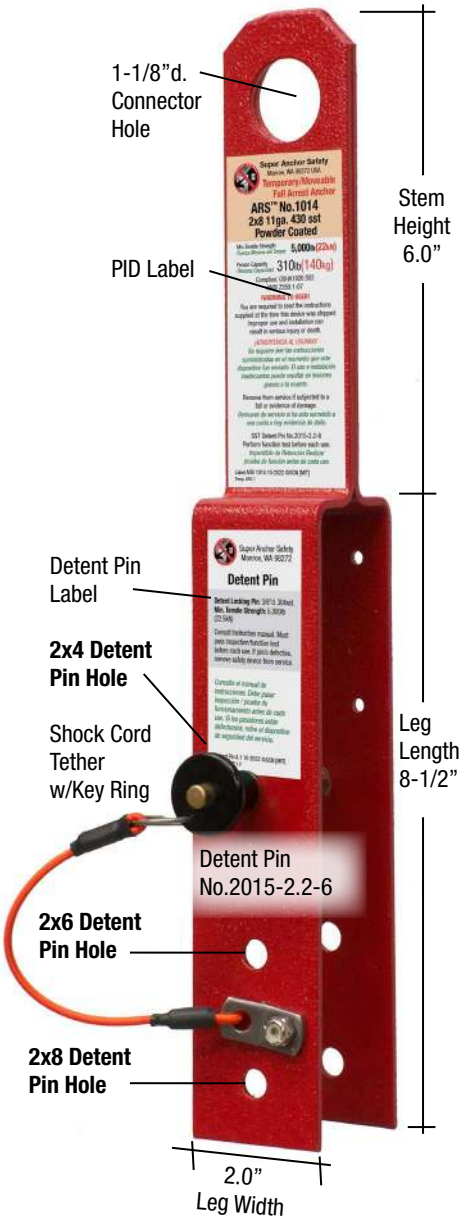


Fig.2
Installation Over 2x8 Top Chord

Fig.3
Drill Thru

Fig.4
Installed Sheathing

Blocking Methods

Top Chords

Direction of Service Load and Leading Edge See Fig.7

Fig.5
2x4 Cross-Brace

Sheathing or Cross-Bracing must span a min. of 3 top chords

Fig.6
Top Chord wo/Blocking

Fall Arrest Definition OSHA 1910.140
"A system used to arrest an employee in a fall from a walking-working surface."

Fall Restraint Definition OSHA 1926.751
"A means of fall protection that prevents the user from falling any distance."

Fall Arrest Service Zone

Fall arrest service load must not exceed 30° off vertical center.

30° Angle Calculator

Min. set back from leading edge is 6ft (72"). Vertical distance from leading edge is shown in 2ft increments rounded off to the nearest +/- 3"*

Table 1

Vertical From Anchor* "A"	Horizontal Leading Edge* "B"
6ft [72"]	3-5" [42"]
8ft [96"]	4-7" [55"]
10ft [120"]	5-9" [69"]
12ft [144"]	7-0" [84"]
14ft [168"]	8-0" [96"]
16ft [192"]	9-3" [111"]
18ft [216"]	10-5" [125"]
20ft [240"]	11-6" [138"]
22ft [264"]	12-8" [152"]
24ft [288"]	13-10" [166"]

Fig.7

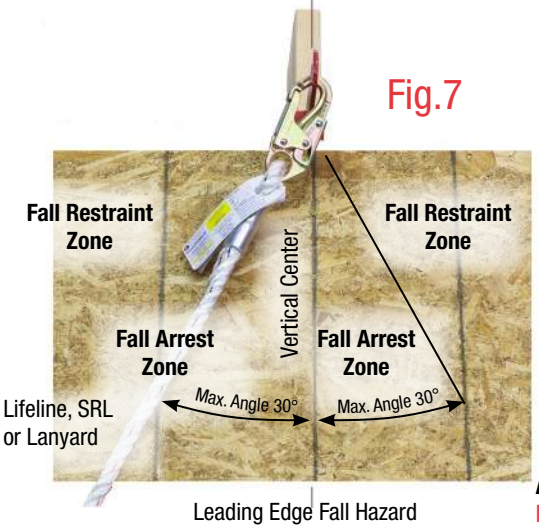
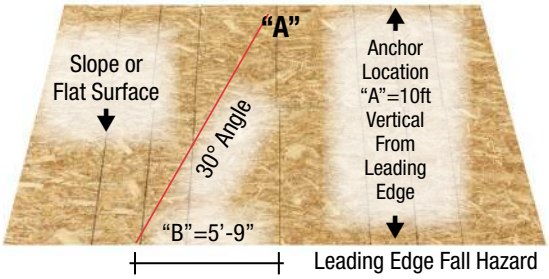


Fig.8

Example: "A"=10ft.Vertical from leading edge. "B"=5-9".Left or right of vertical along leading edge or fall hazard.



Anchor/Detent Pin Inspection/Function Tests

Important! To prevent unintentional disengagement of the detent pin during use, function tests and inspections specified in this manual are required prior to each use. The same tests are required to be performed and documented at least once a year by a competent person*. Leg pin holes can become enlarged when subjected to tension, side loading or normal wear. And, detent pins internal locking spring can break resulting in failure of the ball locks to hold position.

WARNING! Ball lock test is required to be performed first and pass. If leg pin hole test fails, DO NOT USE the ARS anchor with a detent pin. Bolt attached may be used. See Fig.9,10

Test Pass ☑ Test fail ☒ Remove from service immediately. * OSHA definition.

Bolt Attached

In lieu of detent pin, ARS may be bolt attached as shown at Figs. 9 and 10. SAS No.2006 bolt kit required.

Fig.9
Bolt-Thru

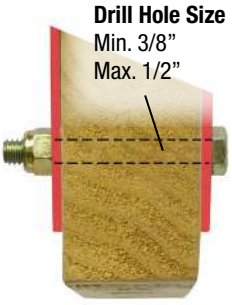


Fig.10
Bolt Under

Ball Lock Test/Inspection:

Perform this test first.

- Both ball locks must be visible. Fig.11
  Any missing ball lock. ☒
- Fig.12, depress lock button. Fig.13, both locks must retract into the shaft when pushed in. ☑
  If they don't, test ☒
- Fig.14. Release lock button. Both locks must pop out of the pin shaft and not move when pushed into the pin shaft. ☑
  Any ball lock movement, test ☒
- Push lock button and release. It must return to the locked position shown at Fig.15. ☑
  Does not return to lock position, test ☒

Fig.11

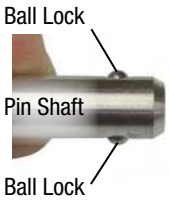


Fig.12

Fig.13

Fig.14

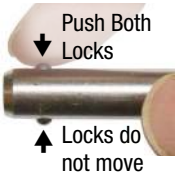
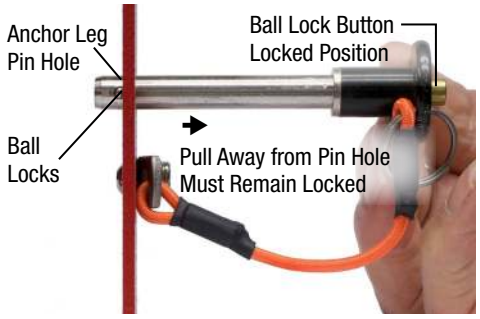


Fig.15

Pin Hole/Lock Test:

- Depress ball lock button and insert pin thru anchor pin hole
- Release ball lock button and pull pin away from leg.
  Pin remains locked. ☑
  Pin extracts from pin hole. ☒



Visual Inspection

- PID and or detent pin labels missing.
  See Fig.1. Remove from service.☒
  Request replacement labels
- Fig.1,12. Pin grip is cracked or broken. ☒
- Pin shaft is bent or gouged. ☒

Fig.16

Replacement Detent Pin No.2015-2.2-4

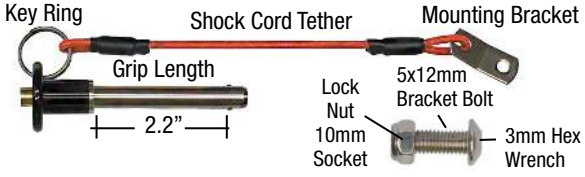
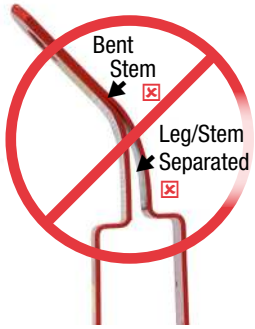


Fig.17

Anchor Inspection



WARNING! Do Not use the anchor if any of these conditions are present. Remove from service.