



The Ultimate in Fall Protection

Instructions for the following series products:

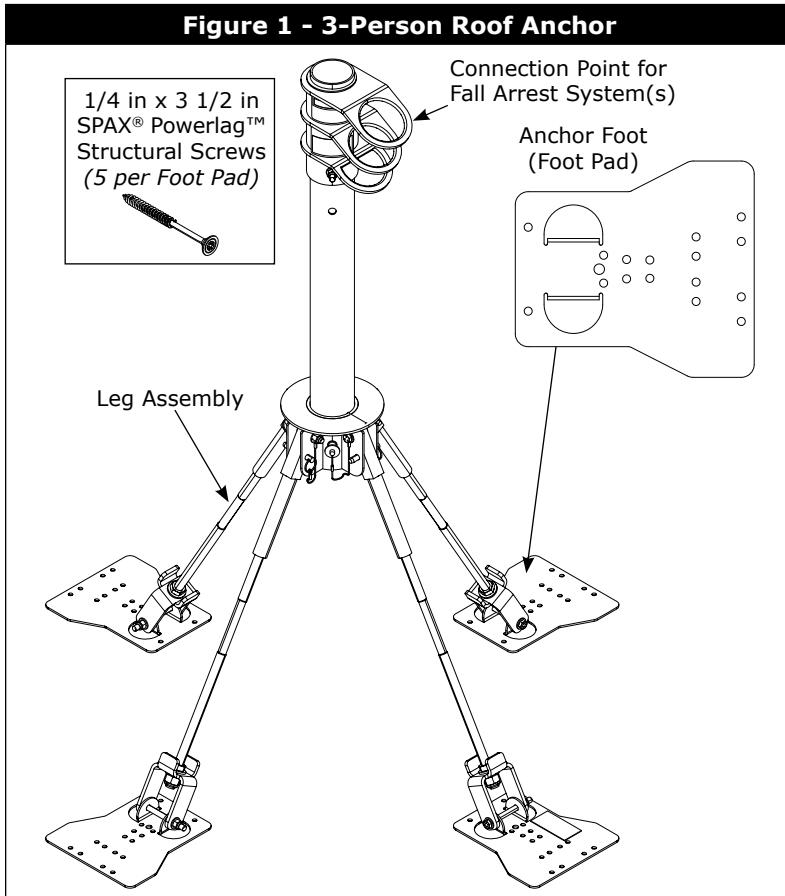
3-Person Swiveling Roof Anchor

Model No.: 2103690

**USER INSTRUCTION MANUAL
3-PERSON SWIVELING ROOF ANCHOR**

This manual is provided as the Manufacturer's Instructions, and should be used as part of an employee training program as required by OSHA.

Figure 1 - 3-Person Roof Anchor



DESCRIPTION

2103690: 3-Person Swiveling Roof Anchor: Includes three swiveling D-rings. Each swiveling D-ring is designed for connection to a self retracting lifeline, shock absorbing lanyard or rope and rope adjuster system.

WARNING: This product is part of a personal fall arrest system. These instructions must be provided to the users of this equipment. The users must read and understand these instructions or have them explained to them before using this equipment. The users must read and follow the manufacturer's instructions for each component of the system. Manufacturer's instructions must be followed for proper use, care and maintenance of this product. Alterations or misuse of this product or failure to follow instructions, may result in serious injury or death.

IMPORTANT: If you have questions on the use, care, or suitability for use of this equipment, contact DBI-SALA immediately.

1.0 APPLICATION

1.1 PURPOSE: DBI-SALA's 2103690 3-Person Swiveling Roof Anchor is designed to be used as a temporarily installed anchorage connector on a wood frame structure. These anchorage connectors may be used as part of a personal fall arrest system.

1.2 LIMITATIONS: The following application limitations must be recognized and considered before using this product:

- A. ROOF STRUCTURE:** The anchorage connector is intended to be installed through sheathing onto a wood member (roof truss) between the sizes of 2" x 4" and 2" x 12" on a 24 in. (61 cm) center. The roof structure must be capable of meeting the anchorage strength requirements as set forth in section 2.4. Consult DBI-SALA before using these roof anchors on any other roof materials (including steel).
- B. CAPACITY:** Each 3-Person Roof Anchor is designed for use by up to three persons with a combined weight (person, clothing, tools, etc.) of no more than 310 lbs. (141 kg) per person. Up to three personal fall arrest systems may be connected to the anchorage connector at a time.
- C. PERSONAL FALL ARREST SYSTEM:** Equipment selected for use with these roof anchors must meet the system performance and other criteria as stated in section 2.0.

- D. CORROSION:** Use near sea water or other corrosive environments may require more frequent inspections or servicing (replacement) to assure corrosion damage is not affecting the performance of the product.
 - E. CHEMICAL HAZARDS:** Solutions containing acids, alkali, or other caustic chemicals, especially at elevated temperatures may cause damage to this equipment. Consult DBI-SALA if doubts exists concerning installing this equipment where chemical hazards are present.
 - F. ELECTRICAL HAZARDS:** Do not install roof anchors where the anchor, equipment connected to it, or the user may come into contact with electrical power lines.
 - G. TRAINING:** This equipment must be installed and used by persons who have been properly trained in its correct application and use. Installation and use of this equipment must be supervised by a qualified person, as defined by OSHA fall protection standards.
- 1.3** Refer to national consensus (including ANSI Z359.1), applicable local, state, and federal (OSHA) requirements governing this equipment for more information on anchorage connectors, and associated system components.

2.0 SYSTEM REQUIREMENTS

- 2.1 COMPATIBILITY OF COMPONENTS:** DBI-SALA equipment is designed for use with DBI-SALA approved components and subsystems only. Substitutions or replacements made with non-approved components or subsystems may jeopardize compatibility of equipment and may affect the safety and reliability of the complete system.
- 2.2 COMPATIBILITY OF CONNECTORS:** Connectors are considered to be compatible with connecting elements when they have been designed to work together in such a way that their sizes and shapes do not cause their gate mechanisms to inadvertently open regardless of how they become oriented. Contact DBI-SALA if you have any questions about compatibility.

Connectors (hooks, carabiners, and D-rings) must be capable of supporting at least 5,000 lbs. (22.2 kN). Connectors must be compatible with the anchorage or other system components. Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage. See Figure 2. Connectors must be compatible in size, shape, and strength. Self-locking snap hooks and carabiners are required by ANSI Z359.1, OSHA, and in Canada, by CSA Z259.12.

- 2.3 MAKING CONNECTIONS:** Only use self-locking snap hooks and carabiners with this equipment. Only use connectors that are suitable to each application. Ensure all connections are compatible in size, shape and strength. Do not use equipment that is not compatible. Ensure all connectors are fully closed and locked.

DBI-SALA connectors (snap hooks and carabiners) are designed to be used only as specified in each product's user instructions. See Figure 3 for inappropriate connections. DBI-SALA snap hooks and carabiners should not be connected:

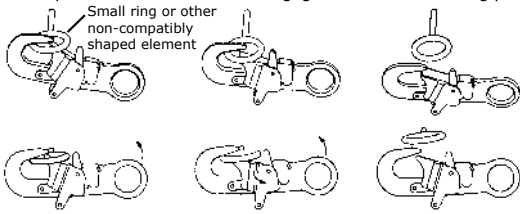
- A.** To a D-ring to which another connector is attached.
- B.** In a manner that would result in a load on the gate.

NOTE: Large throat opening snap hooks should not be connected to standard size D-rings or similar objects which could result in a load on the gate if the hook or D-ring twists or rotates. Large throat snap hooks are designed for use on fixed structural elements such as rebar or cross members that are not shaped in a way that can capture the gate of the hook.

- C.** In a false engagement, where features that protrude from the snap hook or carabiner catch on the anchor, and without visual confirmation seems to be fully engaged to the anchor point.
- D.** To each other.
- E.** Directly to webbing or rope lanyard or tie-back (unless the manufacturer's instructions for both the lanyard and connector specifically allow such a connection).
- F.** To any object which is shaped or dimensioned such that the snap hook or carabiner will not close and lock, or that roll-out could occur.
- G.** In a manner that does not allow the connector to align properly while under load.

Figure 2 - Unintentional Disengagement

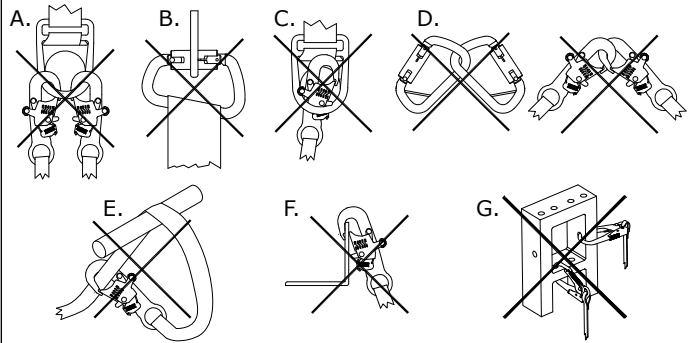
If the connecting element to which a snap hook (shown) or carabiner attaches is undersized or irregular in shape, a situation could occur where the connecting element applies a force to the gate of the snap hook or carabiner. This force may cause the gate (of either a self-locking or a non-locking snap hook) to open, allowing the snap hook or carabiner to disengage from the connecting point.



Force is applied to the Snap Hook.

The Gate presses against the Connecting Ring.

The Gate opens allowing the Snap Hook to slip off.

Figure 3 - Inappropriate Connections

2.4 ANCHORAGE STRENGTH: The anchorage to which the roof anchor is installed must meet minimum strength(s) as given below for the applications selected:

Per OSHA 1926.500 and 1910.66: Anchorages used for attachment of personal fall arrest systems (PFAS) shall be independent of any anchorage being used to support or suspend platforms and capable of supporting at least 5,000 lbs. per user attached, or be designed, installed and used as part of a complete PFAS which maintains a safety factor of at least two and is under the supervision of a qualified person.

3.0 OPERATION AND USAGE

WARNING: Do not alter or intentionally misuse this equipment. Consult with DBI-SALA if using this equipment in combination with components or subsystems other than those described in this manual. Some subsystems and components combinations may interfere with the proper operation of this equipment.

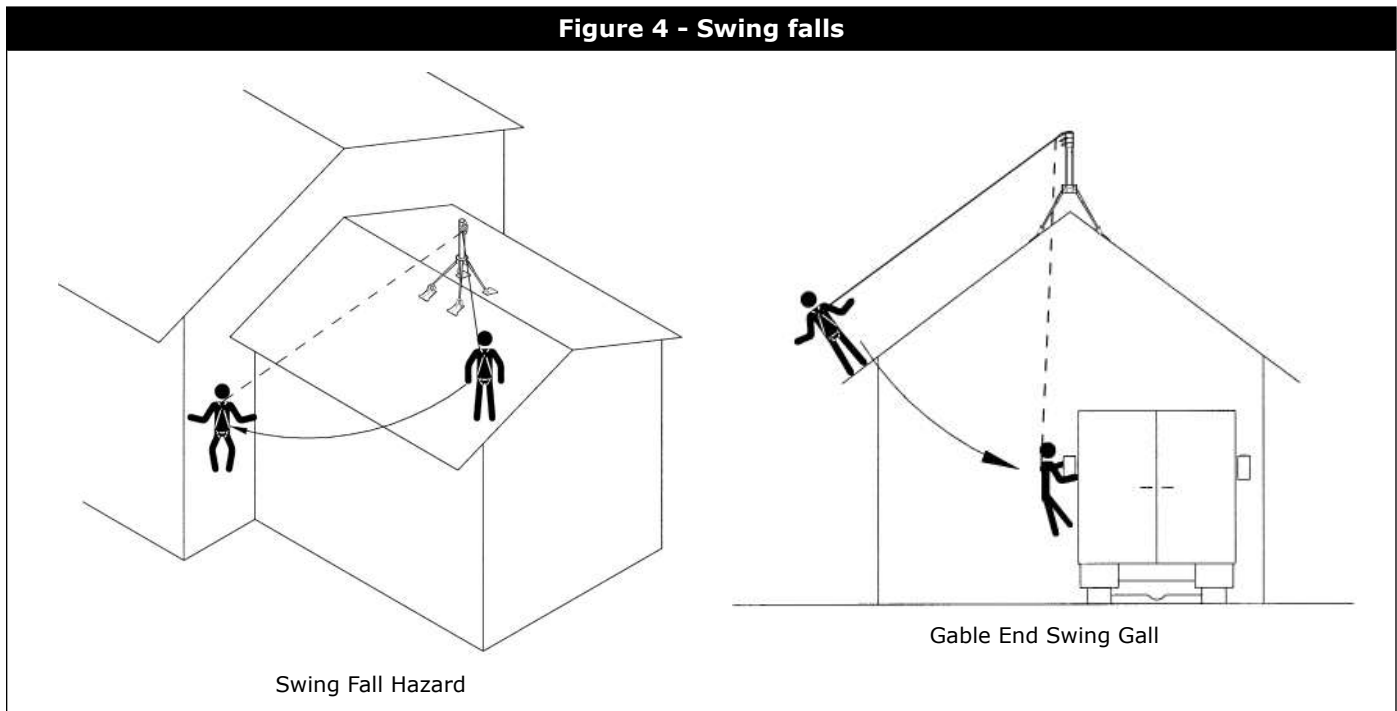
WARNING: Do not use this equipment if you are unable to tolerate the impact from a fall arrest. Age and fitness can seriously affect your ability to withstand a fall. Pregnant women and minors must not use this equipment.

3.1 BEFORE EACH USE of this equipment, carefully inspect it to assure that it is in serviceable condition. Check for worn or damaged parts. Ensure roof anchor is secure and not distorted. Inspect for sharp edges, burrs, cracks, or corrosion. Inspect other fall arrest equipment in accordance with manufacturer’s instructions. Refer to section 5.0 for further inspection details. Do not use if inspection reveals an unsafe condition.

3.2 PLAN your fall arrest system before starting your work. Take into consideration factors affecting your safety at any time during use. The following list gives some important points you must consider when planning your system:

- A. ANCHORAGE:** Select an anchorage point that is rigid and capable of supporting the required loads. See section 2.4. Locate roof anchor in accordance with section 3.3.
- B. OTHER CONSIDERATIONS:** Personal fall arrest systems must be rigged to limit any free fall to a maximum of 6 ft. (1.8 m) per OSHA and ANSI Z359.1. Avoid working above your anchorage level since an increased free fall distance will result. Avoid working where your line may cross or tangle with that of other workers or objects. Do not allow the lifeline to pass under arms or between legs. Never clamp, knot, or prevent the lifeline from retracting or being taut. Avoid a slack line. Do not lengthen an SRL by connecting a lanyard or other components without consulting DBI-SALA. Should a fall occur, there must be sufficient clearance in the fall area to arrest the fall before striking the ground or other object. The total fall distance is the distance measured from the onset of a fall to the point where the fall is arrested. A number of factors can influence total fall distance including: user’s weight, anchorage location relative to the fall (swing fall), body support with sliding D-ring, etc.
- C. SWING FALLS:** Swing falls occur when the anchorage point is not directly above the point where a fall occurs. The force of striking an object while swinging (horizontal speed of the user due to the pendulum affect) can be great and may cause serious injury. Swing falls can be minimized by working as directly below the anchorage point as possible. See Figure 4. Also in a swing fall situation, the total vertical fall distance of the user will be greater than if the user had fallen vertically directly below the anchorage point. The user must therefore account for an increase in the total free fall distance and the area needed to safely arrest the fall. If a swing fall hazard exists in your application, contact DBI-SALA before proceeding.

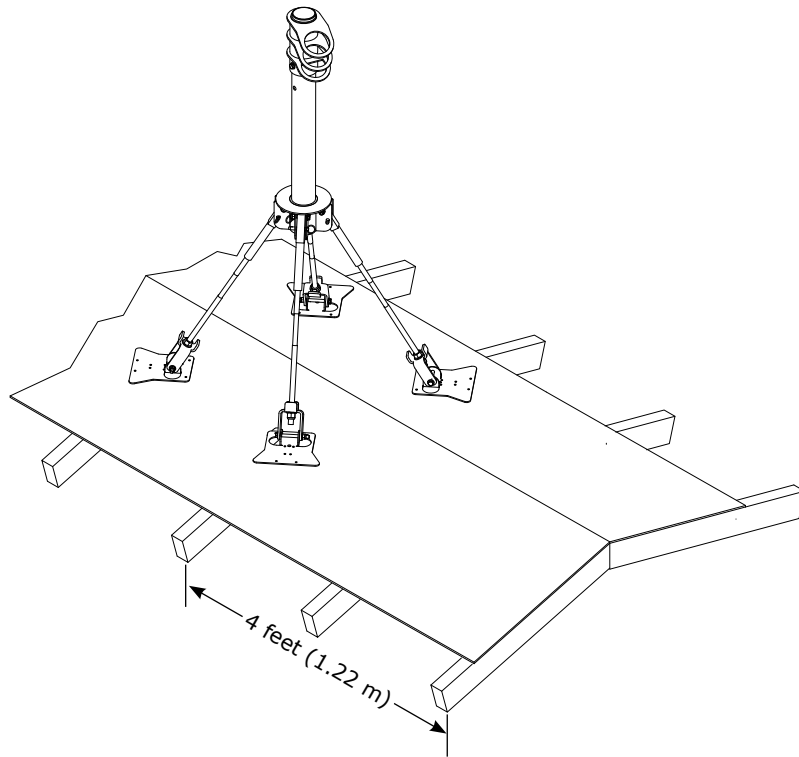
- D. SHARP EDGES:** Avoid working where the connecting subsystem (i.e. self retracting lifeline, full body harness, etc.) or other system components will be in contact with, or abrade against unprotected sharp edges. If working with this equipment near sharp edges is unavoidable, protection against cutting must be provided by using a heavy pad or other means over the exposed sharp edge. A energy absorbing component can sometimes be added in-line to further protect the worker. Compatibility and total fall distance issues must be considered if this is done. Contact DBI-SALA before using in-line energy absorbing components or lanyards with self retracting lifelines.
- E. RESCUE:** Should a fall occur, the user (employer) must have a rescue plan and the means at hand to implement it.
- F. AFTER A FALL:** Any equipment which has been subjected to the forces of arresting a fall must be removed from service immediately and destroyed or contact a factory authorized service center for repair.



3.3 INSTALLATION REQUIREMENTS:

- A. ROOF ANCHOR SITE PLAN:** Before starting the roof construction, a plan should be established as to where the roof anchor(s) will be installed and when during the construction process they may be used. The following are guide lines on locating roof anchors:
 - The roof anchor should be located at the roof peak and at least 4 ft (1.2 m) and as far away from any exposed roof edge as possible (see Figure 5). The anchor should be located to avoid swing falls as discussed in section 3.2 by keeping it near the area where work is taking place. Reposition the roof anchor, as needed, as work progresses.
 - On long low pitched roofs, multiple roof anchors should be installed along gable ends, 4 ft (1.2 m) from edge to reduce swing fall hazards.
 - Very large roofs may require repositioning of the anchor along the roof peak.
 - Do not install roof anchors on fascia board or unsupported roof structure such as eaves or gable overhangs.
 - Anchors should be installed along the roof ridge on trusses on 24 in. (61 cm) centers only. (See Figure 6.)
 - Anchors are approved for use on roofs ranging in pitch from 4:12 to 12:12 only.
 - A maximum of three workers may be anchored to this unit at any time.
- B. ROOF FRAMING:** Roof framing members to which the roof anchors are attached must be in good condition. Members must be free of splits, cracks, large knots or other defects that may weaken the member. Figure 5 shows how the anchor would look once in place. The roof framing structure must be capable of withstanding the loads given in section 2.4.

Figure 5 - Roof Framing



C. ROOF ANCHOR INSTALLATION: Roof anchors must be installed in accordance with the previously discussed site plan. Site work rules must be followed regarding when an installed anchor is ready for use (i.e. properly braced, etc.). The roof anchor must not be attached or used until the sheathing is in place. Do not install the roof anchor on top of existing shingles or roofing material. The roof anchor's leg pads must stay directly on top of wood sheathing.

ATTACHING THE ROOF ANCHOR: Screws are included with the roof anchor. If your material is susceptible to splitting, pre-drilling may be necessary. Use appropriate diameter pilot holes for easier installation of screws (see Figure 6). See section 5.0 for pre-use inspection. To attach the Roof Anchor:

- Step 1:** Remove the detent pin and extend the center post. Replace detent pin to lock center post into position.
- Step 2:** To adjust legs, remove detent pin and extend leg. Align the hole in the leg with the hole in the bracket and replace detent pin to lock each leg into position.
- Step 3:** Adjust the feet to match the surface of the roof pitch.
- Step 4:** Position the anchor on the roof so the deck screw holes on the anchor feet are centered over a roof truss. Trusses must be on 24 in. (61 cm) center and 2" x 4" minimum). See Figure 6.
- Step 5:** Push down the feet to minimize any gap between the anchor and the sheathing and install twenty 1/4 in. x 3 1/2 in. SPAX® Powerlag structural screws (five per foot).

IMPORTANT: Avoid prestressing the screws or damaging the rafter or truss; do not overtighten.

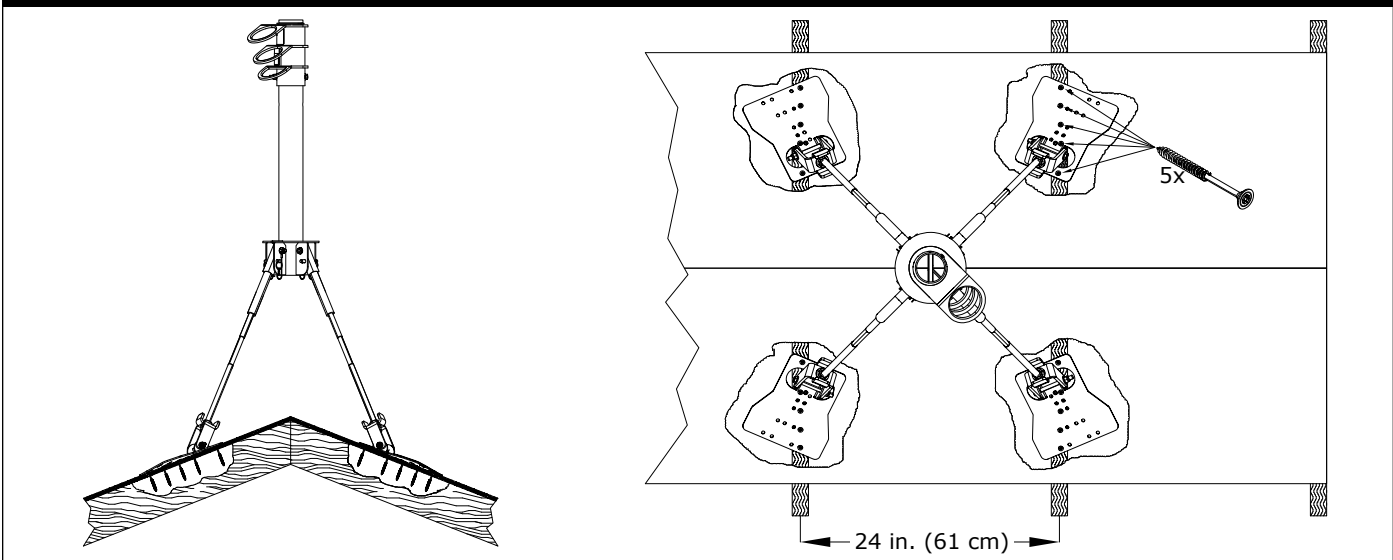
IMPORTANT: Foot pad holes for screw installation must be selected such that all screws are at least 2 in. apart. in order to minimize the possibility of splitting the truss or rafter.

WARNING: The deck screws must go through the sheathing and into the roof truss. If they do not, the anchor will not hold the rated loads and serious injury or death could occur.

WARNING: Use only SPAX Powerlag structural screws (20 total, 5 per foot pad). Do not reuse screws when reinstalling the roof anchor. Use only new screws.

D. REMOVAL OF ROOF ANCHOR: Remove the roof anchor prior to shingling the area with the anchor. To remove it, unscrew the deck screws. The roof anchor is removable and designed to be reinstalled following inspection per section 5.0.

Figure 6 - Attaching the Roof Anchor



3.4 BODY SUPPORT: When using the DBI-SALA swiveling roof anchor with personal fall arresting systems, each person must wear a full body harness. For general fall protection use, connect to the D-ring on the back between the shoulders (dorsal D-ring).

IMPORTANT: For most free fall situations, body belts are not recommended for use. Body belts increase the risk of injury during fall arrest in comparison to a full body harness. Limited suspension time and the potential for improperly wearing a body belt may result in added danger to the user's health. If belts are worn, adjust snugly around the waist (not down on hips) and position the D-ring in the center of your back side.

3.5 MAKING CONNECTIONS: When using a hook to make a connection, be certain accidental disengagement (roll-out) cannot occur. See section 2.2. Always follow the manufacturer's instruction supplied with each system component.

3.6 CONNECTING TO ROOF ANCHOR: Connection to the installed roof anchor may be made by attaching a self-locking snap hook or carabiner of your personal fall arrest system to one of the anchor swiveling D-rings. See Figure 7. When connecting, make sure connections are fully closed and locked. Figure 8 illustrates proper connection of typical fall arrest equipment to the roof anchor. Always protect lifeline from abrading against sharp or abrasive surfaces on the roof. Make sure all connections are compatible in size, shape and strength.

IMPORTANT: This is a three person anchor, but never connect more than one personal protective system to any single swiveling D-ring at a time. Do not attach to the legs of the anchor. Do not attach a lifeline between two or more roof anchors (i.e. horizontal lifeline system). Do not hang, lift or support tools or equipment from these roof anchors or attach guylines for antennas, phone lines, etc.

WARNING: Read and follow manufacturer's instructions for associated equipment (i.e. full body harness, self retracting lifeline, etc.) used in your personal fall arrest system.

IMPORTANT: For special (custom) versions of this product, follow the instructions herein. If enclosed, see attached supplement for additional instructions to be followed when using a customized product.

Figure 7 - Connection to Anchor

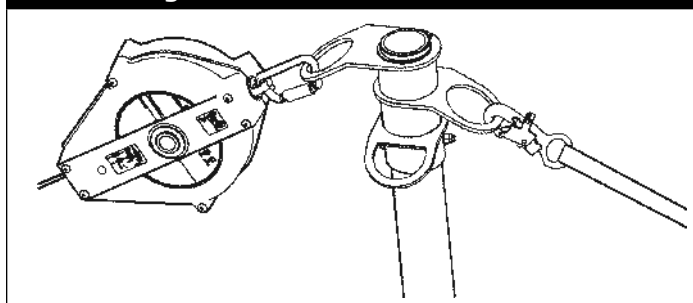
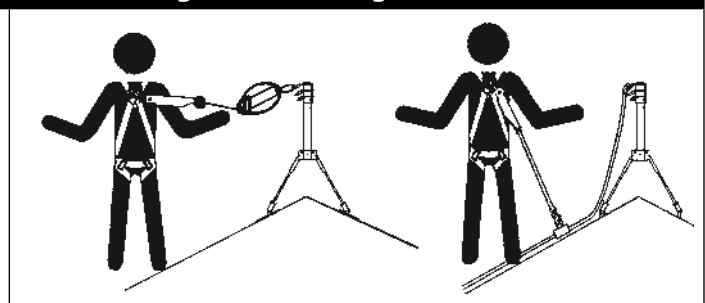


Figure 8 - Making Connections



4.0 TRAINING

- 4.1 It is the responsibility of the user and the purchaser of this equipment to assure they are familiar with these instructions, trained in the correct care and use of, and are aware of the operating characteristics, application limits and the consequences of improper use of this equipment.

IMPORTANT: Training must be conducted without exposing the trainee to a fall hazard. Training should be repeated periodically.

5.0 INSPECTION

- 5.1 **FREQUENCY:** Before each use visually inspect per steps listed in section 5.2 and 5.3.

IMPORTANT: If this equipment has been subjected to forces resulting from the arrest of a fall, it must be immediately removed from service and destroyed or returned to DBI-SALA for possible repair. See section 5.2.

5.2 INSPECTION STEPS:

- Step 1.** Inspect the Roof Anchor for physical damage. Look carefully for any signs of cracks, dents or deformities in the metal. Make certain the legs and feet are not deformed in any way and that they pivot correctly.
- Step 2.** Inspect the Roof Anchor for signs of excessive corrosion. Make certain the anchor swivels 360° properly.
- Step 3.** Ensure the condition of the roof anchor will support the Roof Anchor loads, see section 2.4. An anchor connected to rotten or deteriorated wood should not be used.
- Step 4.** Ensure the Roof Anchor is securely attached to the roof structure. See section 3.3.
- Step 5.** Inspect each system component or subsystem (i.e. self retracting lifeline, full body harness, etc.) per associated manufacturer's instructions.
- Step 6.** Record the inspection date and results on the "Inspection and Maintenance Log" at the back of these instructions.

- 5.3 If inspection reveals an defective condition, remove unit from service immediately and destroy, or contact a factory authorized service center for repair.

IMPORTANT: Only DBI-SALA or parties authorized in writing may make repairs to this equipment.

6.0 MAINTENANCE - SERVICING - STORAGE

- 6.1 Clean the swivelling roof anchor with a mild soap detergent solution. Excessive build-up of dirt, tar, etc. may prevent the anchor from working properly. A small amount of oil or grease can be applied to the anchor to help swiveling action. If you have any questions concerning the condition of your roof anchor, or have any doubt about putting it into service, contact DBI-SALA immediately. Refer to manufacturer's instruction for maintenance, servicing, and storage procedures of subsystem components.
- 6.2 Additional maintenance and servicing procedures (i.e. replacement parts) must be completed by a factory authorized service center. Authorization must be in writing.

7.0 SPECIFICATIONS

MATERIALS:

Materials and Finish: Hot rolled steel plate - Zinc plated or powder coated, 6061-T6 aluminum anodized, 304 stainless steel

Hardware: Grade 5/Grade 8 zinc plated

Static load capacity: Strength of system maintains a minimum safety factor of 2 as required by OSHA when according to this user instruction manual (reference OSHA 1926.502 and 1910.66)

Capacity: 3 persons at 310 lbs. (141 kg) max per person.

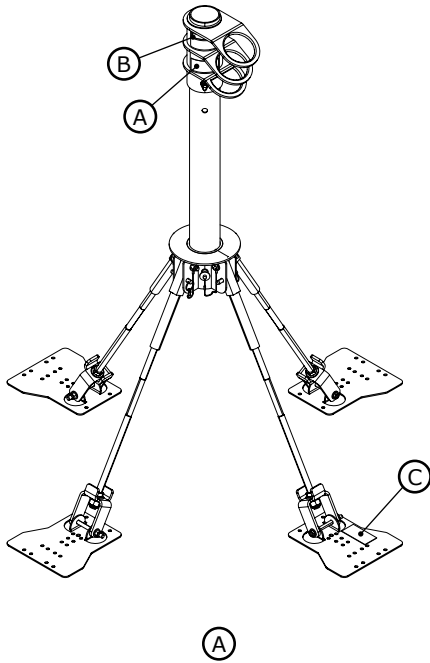
Weight: 39 lbs.

Size (collapsed): 9 in. x 9 in. x 40 in. (22.9 cm x 22.9 cm x 101.6 cm)

Size (extended): 36 in. x 36 in. x 54 in. (91.4 cm x 91.4 cm x 137.2 cm)

8.0 LABELING

8.1 The following labels should be securely attached to the roof anchor and fully legible.



⚠ WARNING

YOU MUST READ AND UNDERSTAND THE OPERATOR'S MANUAL OR HAVE INSTRUCTIONS EXPLAINED TO YOU BEFORE USING THIS PRODUCT.

Not following the instructions in the operator's manual can cause serious injury or death.

Pt# 15570

DBI SALA 9504547 Rev F

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Capital Safety
Red Wing, MN, USA
+1-800-328-6146

SERIAL NO. XXXXX

MFRD(Y/M): LOT NO.: MODEL NO.: LENGTH (FT):

DBI SALA

www.capitalsafety.com
Capital Safety
Red Wing, MN, USA
+1-800-328-6146

SWIVELING ROOF ANCHOR

SPECIFICATIONS:
CAPACITY: 3 PERSON, 310 LBS. MAX./PERSON
MATERIALS: CARBON STEEL, STAINLESS STEEL, ALUMINUM
MEETS OSHA REQUIREMENTS

INSPECTION:
INSPECT ANCHOR BEFORE EACH USE. DO NOT USE IF INSPECTION REVEALS AN UNSAFE OR DEFECTIVE CONDITION. NOT USER REPAIRABLE.

USE:
INSTALL OVER ROOF SHEATHING. USE FIVE 3.5 INCH X .25 "SPAX" POWERLAG SCREWS IN EACH FOOT. SCREWS MUST ENGAGE TRUSS. TO PREVENT SPLITTING, SOME WOOD TYPES MAY REQUIRE PRE-DRILLING.

PERSONAL FALL ARREST SYSTEM MUST LIMIT MAXIMUM ARREST FORCE TO 900 LBS.

8524124 Rev. C

INSPECTION AND MAINTENANCE LOG

SERIAL NUMBER:	
MODEL NUMBER:	
DATE PURCHASED:	DATE OF FIRST USE:

INSPECTION DATE	INSPECTION ITEMS NOTED	CORRECTIVE ACTION	MAINTENANCE PERFORMED
Approved By:			
Approved By:			
Approved By:			
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LIMITED LIFETIME WARRANTY

Warranty to End User: D B Industries, Inc., dba CAPITAL SAFETY USA ("CAPITAL SAFETY") warrants to the original end user ("End User") that its products are free from defects in materials and workmanship under normal use and service. This warranty extends for the lifetime of the product from the date the product is purchased by the End User, in new and unused condition, from a CAPITAL SAFETY authorized distributor. CAPITAL SAFETY'S entire liability to End User and End User's exclusive remedy under this warranty is limited to the repair or replacement in kind of any defective product within its lifetime (as CAPITAL SAFETY in its sole discretion determines and deems appropriate). No oral or written information or advice given by CAPITAL SAFETY, its distributors, directors, officers, agents or employees shall create any different or additional warranties or in any way increase the scope of this warranty. CAPITAL SAFETY will not accept liability for defects that are the result of product abuse, misuse, alteration or modification, or for defects that are due to a failure to install, maintain, or use the product in accordance with the manufacturer's instructions.

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CETTE GARANTIE CAPITAL SAFETY S'APPLIQUE UNIQUEMENT À L'UTILISATEUR FINAL. ELLE EST LA SEULE GARANTIE APPLICABLE À NOS PRODUITS. ELLE EXCLUT TOUTE AUTRE GARANTIE EXPRESSE OU IMPLICITE. CAPITAL SAFETY EXCLUT EXPLICITEMENT ET DÉCLINE TOUTE GARANTIE IMPLICITE DE MISE EN MARCHÉ ET D'ADAPTATION À DES FINS PARTICULIÈRES, ET NE SERA RESPONSABLE POUR AUCUN DOMMAGE-INTÉRÊT DIRECT OU INDIRECT, CORRÉLATIF OU ACCESSOIRE DE TOUTE NATURE Y COMPRIS ET DE MANIÈRE NON LIMITATIVE, LES PERTES DE PROFITS, LES REVENUS OU LA PRODUCTIVITÉ, LES BLESSURES CORPORELLES, VOIRE LA MORT OU DOMMAGES À LA PROPRIÉTÉ, DANS LE CADRE DE TOUTE THÉORIE DE RESPONSABILITÉ, Y COMPRIS ET DE MANIÈRE NON LIMITATIVE UN CONTRAT, UNE GARANTIE, UNE RESPONSABILITÉ (Y COMPRIS LA NÉGLIGENCE) OU TOUTE AUTRE THÉORIE LÉGALE OU ÉQUITABLE.



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