

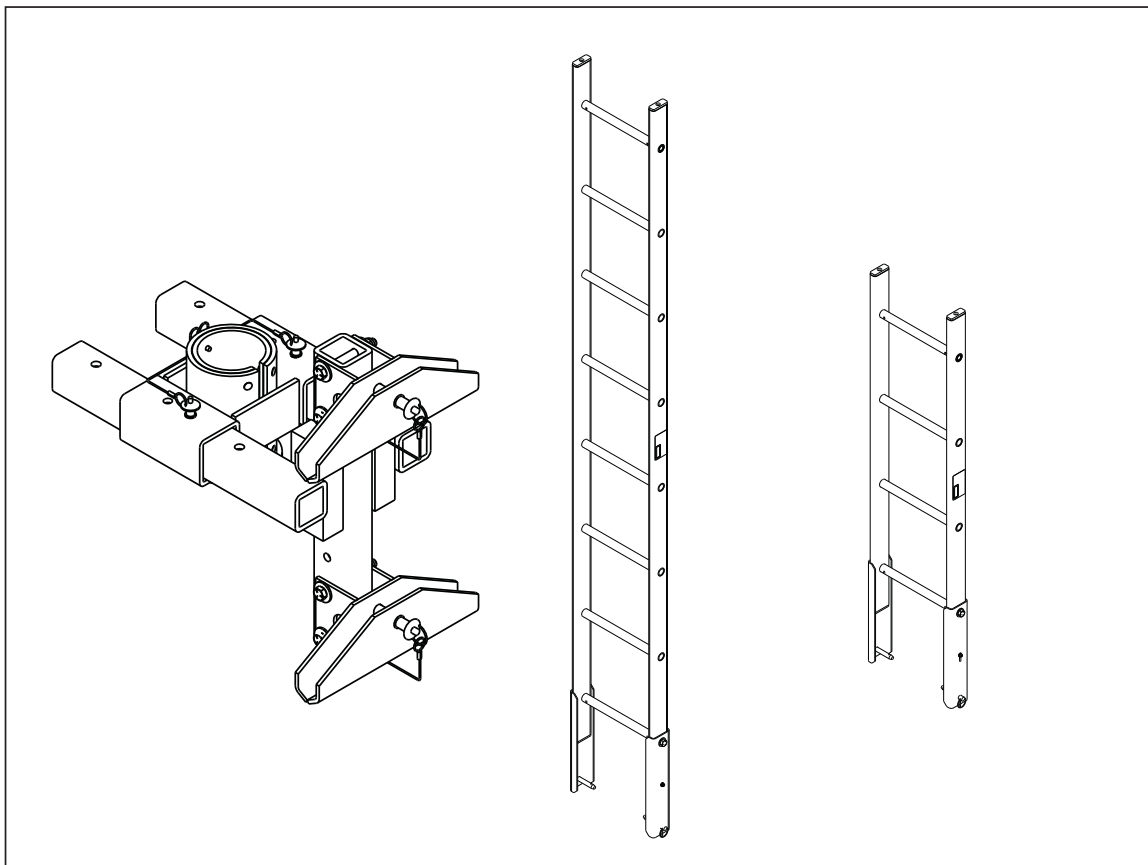


Instructions for the following series products:  
**8ft & 4ft LADDER SECTIONS  
WITH ADJUSTABLE LADDER BRACKET**  
8518506, 8518507 & 8518508

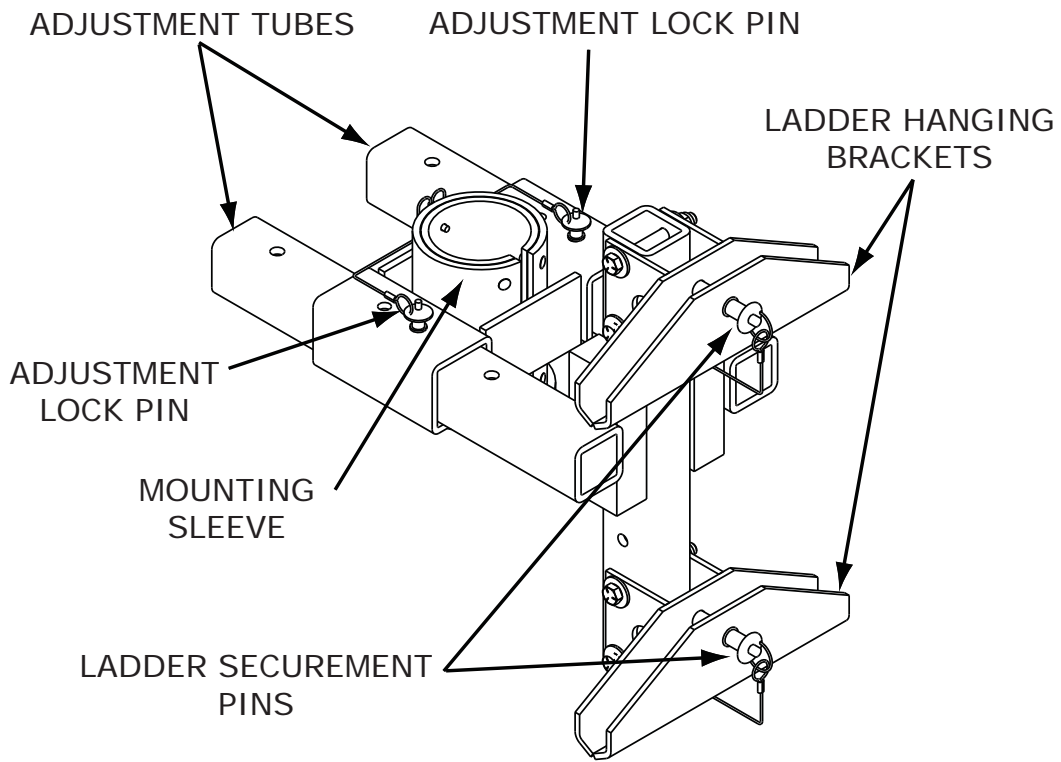
## User Instruction Manual

### 8ft & 4ft LADDER SECTIONS WITH ADJUSTABLE LADDER BRACKET

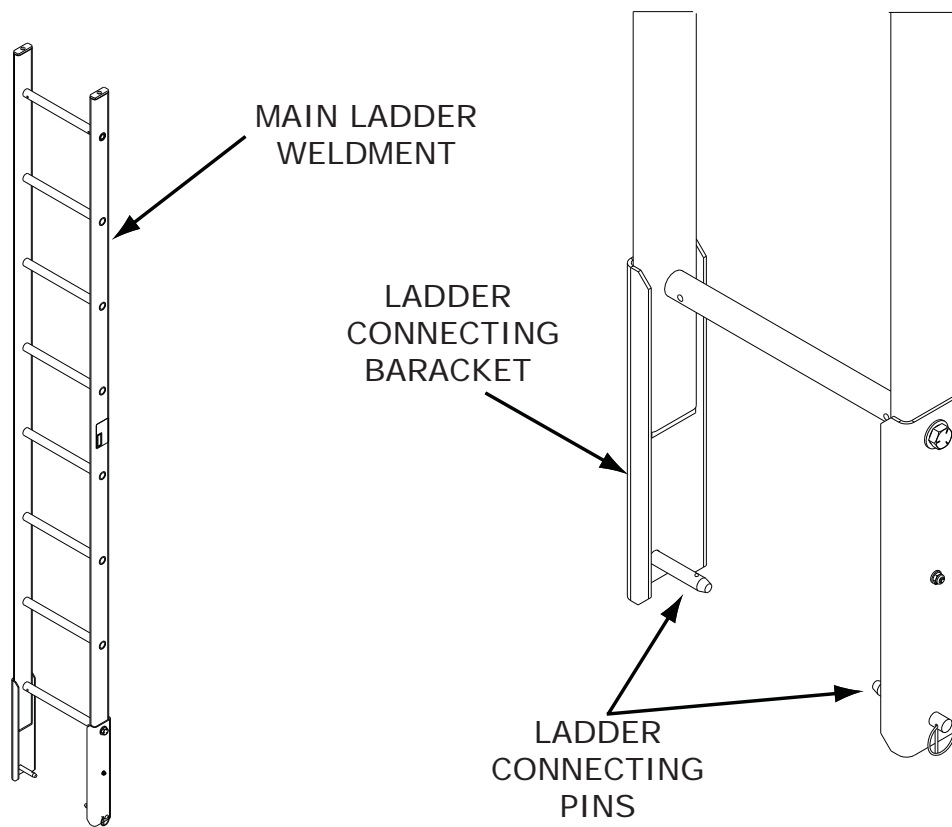
This manual is intended to meet the Manufacturer's Instructions as required by ANSI Z359.1 and should be used as part of an employee training program as required by OSHA.



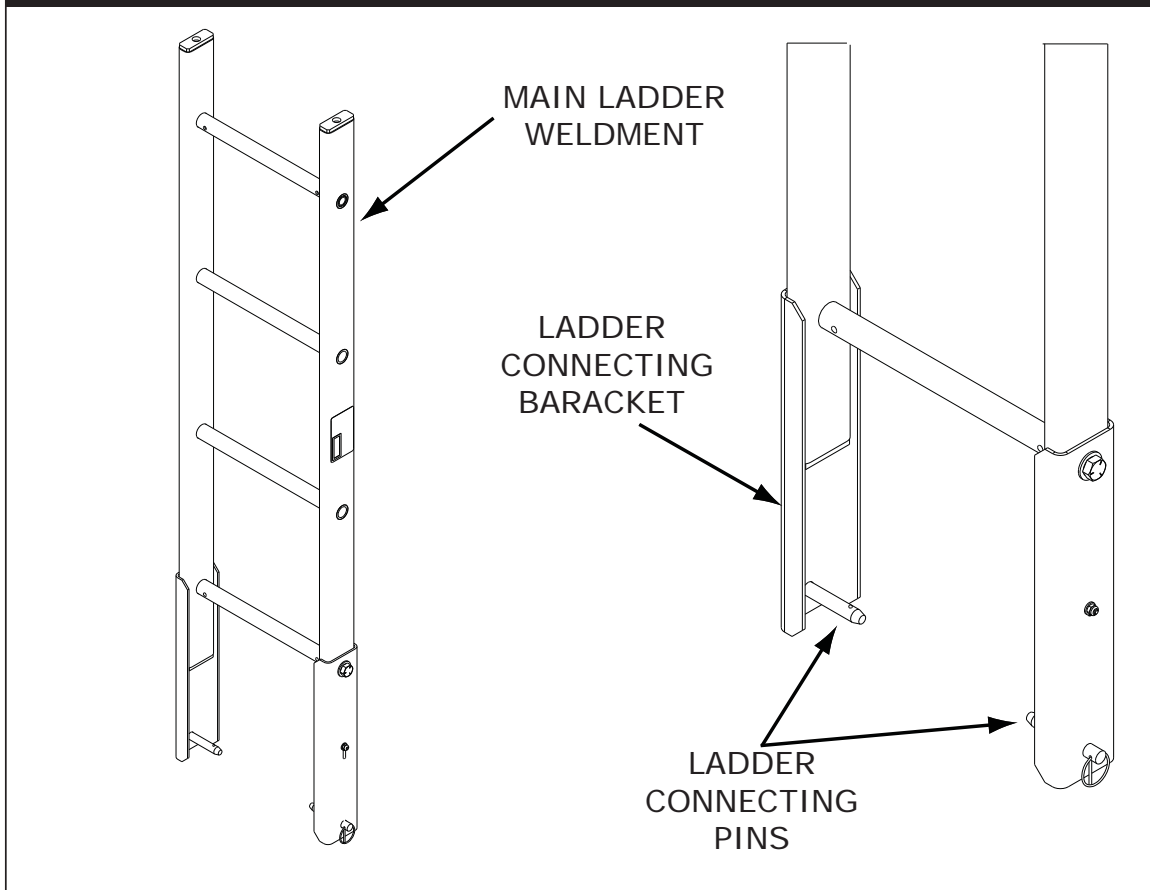
**Figure 1 - 8518506**



**Figure 2 - 8518507**



**Figure 3 - 8518508**



**WARNING:** This product is part of a personal fall protection system. The user must read and follow the manufacturer's instructions for each component of the system. These instructions must be provided to the user and the rescuer. (See section 8 Terminology.) The user must read and understand these instructions before using this equipment. Manufacturer's instructions must be followed for proper use and maintenance of this equipment. Alterations or misuse of equipment, or failure to follow instructions, may result in serious injury or death.

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

**IMPORTANT:** Record the product identification information from the ID label in the inspection and maintenance log in section 10.0 of this manual.

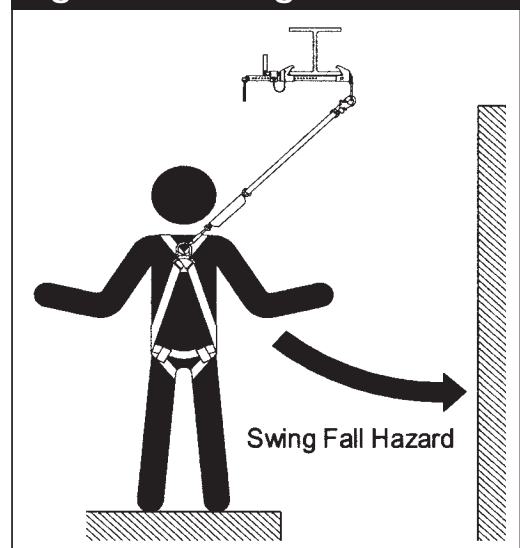
## 1.0 APPLICATIONS

**1.1 PURPOSE:** These systems are designed to be used in conjunction with approved DBI-SALA davits and mast extensions to provide safe access and egress at height.

**1.2 LIMITATIONS:** The following application limitations must be considered before using this equipment:

- A. NUMBER OF USERS:** This system is designed for a maximum of one user at any given time.
- B. CAPACITY:** This equipment is designed for use by persons with a combined weight (clothing, tools, etc.) of no more than 310 lbs.
- C. LADDER LENGTH:** When assembled, no combination of the 8518507 & 8518508 ladders can exceed a length of 32' (384").
- D. PERSONAL FALL ARREST SYSTEM:** The personal fall arrest system used with this equipment must meet the requirements specified in section 2.1.
- E. FREE FALL:** Personal fall arrest systems used with this equipment must be rigged to limit the free fall to a maximum of six feet when possible, as required by OSHA. The maximum free fall must always be within the manufacturer's free fall capacity of the system components used to arrest the fall. See section 2.1 and connecting subsystem manufacturer's instructions for more information.
- F. SWING FALLS:** See Figure 4. Swing falls occur when the anchorage point is not directly above or below the point where a fall occurs. The force of striking an object in a swing fall may cause serious injury or death. Minimize swing falls by working as close to the anchorage as possible. Do not permit a swing fall if injury could occur. Swing falls will significantly increase the clearance required when a self retracting lifeline or other variable length connecting subsystem is used.

**Figure 4- Swing Fall Hazard**



**G. FALL CLEARANCE:** There must be sufficient clearance below the user to arrest a fall before the user strikes the ground or other obstruction. The clearance required is dependent on the following factors:

- Length of connecting subsystem
- Deceleration distance
- Movement of harness attachment element (sliding D-ring)
- Worker height
- Free fall distance

See personal fall arrest system manufacturer's instructions for more information.

**H. ENVIRONMENTAL HAZARDS:** Use of this equipment in areas with environmental hazards may require additional precautions to reduce the possibility of injury to the user or damage to the equipment. Hazards may include, but are not limited to; heat, chemicals, corrosive environments, high voltage power lines, gases, moving machinery, and sharp edges. Contact DBI-SALA if you have questions about using this equipment where environmental hazards exist.

**I. TRAINING:** This equipment must be installed and used by persons trained in its correct application and use. See section 4.0.

**1.3** Refer to national Standards including ANSI Z359 (.0, .1, .2, .3, and .4) family of standards on fall protection, ANSI A10.32, and applicable local, state and federal (OSHA) requirements governing occupational safety for more information about fall arrest systems.

## **2.0 SYSTEM REQUIREMENTS**

**2.1 PERSONAL FALL ARREST SYSTEM:** This ladder system was designed for use with DBI-SALA approved components or subsystems. Use of this equipment with non-approved components may result in incompatibility between equipment, and could affect the reliability and safety of the complete system. Personal fall arrest systems used with this equipment must meet applicable OSHA, state, federal, and ANSI requirements. A full body harness must be worn by the worker when connected to the Anchorage Connector. As required by OSHA, the personal fall arrest system must be capable of arresting a worker's fall with a maximum arresting force no greater than 900 lbs., and where possible, limit the free fall distance to 6 ft. or less. If the maximum free fall distance of 6 ft. must be exceeded, the employer must be able to document, based on test data, that the maximum permissible arresting forces will not be exceeded, and that the personal fall arrest system will function properly.

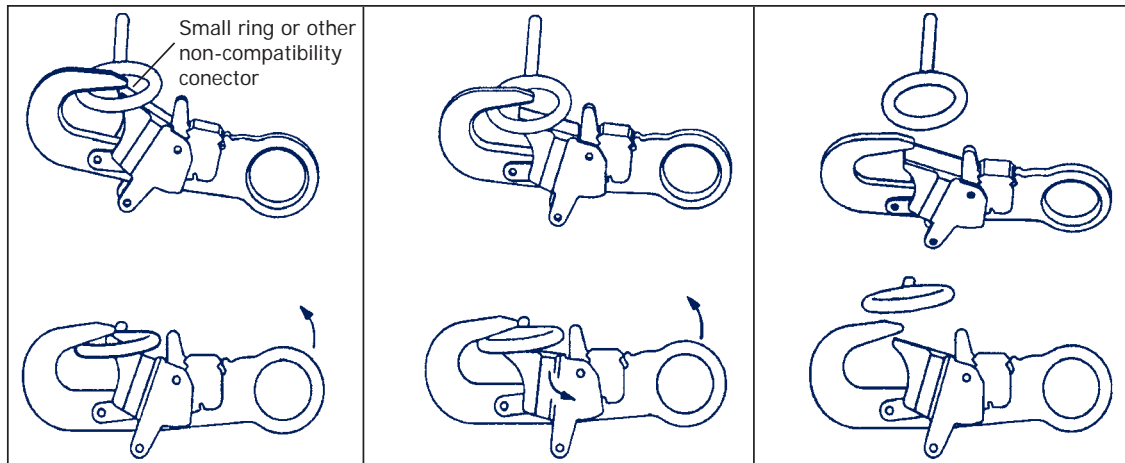
**2.2 COMPATIBILITY OF COMPONENTS:** DBI-SALA equipment is designed for use with DBI-SALA approved components and subsystems only. Substitutions or replacements made with non-approved components or subsystems may jeopardize compatibility of equipment and may effect the safety and reliability of the complete system.

**2.3 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. (22.2kN). 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 5.

**Figure 5 - Unintentional Disengagement (Roll-out)**

If the connecting element that a snap hook (shown) or carabiner attaches to 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.



1. Force is applied to the snap hook.

2. The gate presses against the connecting ring.

3. The gate opens allowing the snap hook to slip off.

Connectors must be compatible in size, shape, and strength. Use only with connectors meeting Z359.12-2007. The connectors have high strength gates, necessary to be compatible with this anchorage.

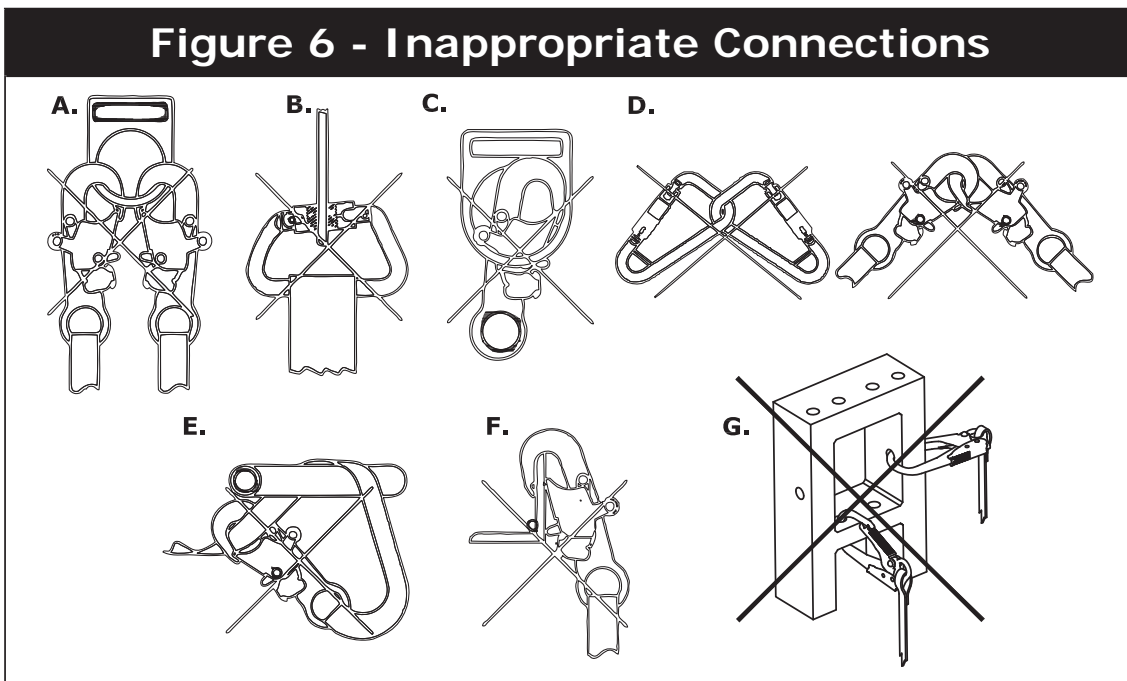
- 2.4 MAKING CONNECTIONS:** Only use self-locking snap hooks and carabiners with this equipment. Only use connectors that are suitable to each application. Ensure all connections are compatible in size, shape and strength. Do not use equipment that is not compatible. Ensure all connectors are fully closed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

DBI-SALA connectors (snap hooks and carabiners) are designed to be used only as specified in each product's user's instructions. See Figure 6 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 will 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 allows 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.

### **3.0 INSTALLATION AND USE**

**WARNING:** Do not alter or intentionally misuse this equipment. Consult DBI-SALA when using this equipment in combination with components or subsystems other than those described in this manual. Some subsystem and component combinations may interfere with the operation of this equipment. Use caution when using this equipment around moving machinery, electrical hazards, chemical hazards, and sharp edges.

**WARNING:** Consult your doctor if there is reason to doubt your fitness to safely absorb the shock from a fall arrest. Age and fitness seriously affect a worker's ability to withstand falls. Pregnant women or minors must not use DBI-SALA anchorage connectors.

**3.1 BEFORE EACH USE** of this equipment inspect it according to section 5.0 of this manual.

**3.2 PLAN** your system before installation. Consider all factors that will affect your safety during use of this equipment. The following list gives important points to consider when planning your system.

- A. **SHARP EDGES:** Avoid working where system components may be in contact with, or abrade against, unprotected sharp edges.
- B. **AFTER A FALL:** Any equipment which has been subjected to the forces of arresting a fall or exhibits damage consistent with the effect of fall arrest forces as described in section 5, must be removed from service immediately and destroyed by the user, the rescuer, or an authorized person and rescuers.
- C. **RESCUE:** When using this equipment, the employer must have a rescue plan and the means at hand to implement it and communicate that plan to users, authorized persons, and rescuers.

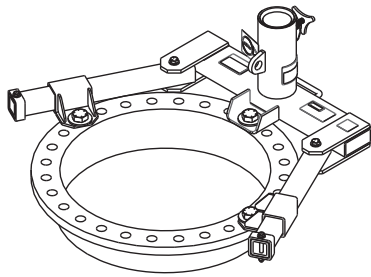


**3.3 INSTALLATION REQUIREMENTS:** This system must be installed by a qualified person. The 8518507 and 8518508 ladders are intended to be used solely in conjunction with the 8518506 adjustable ladder bracket. In no instance is it ever safe to use the 8518507 or 8518508 ladders as a free standing system.

**3.4 USING THE SYSTEM:**

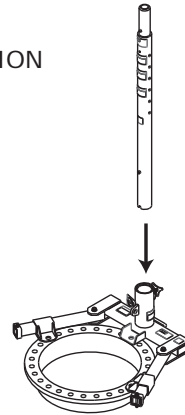
- A. PERSONAL FALL ARREST SYSTEM:** Inspect and don your full body harness according to manufacturer's instructions. Attach the connecting subsystem (energy absorbing lanyard) to the dorsal D-ring on the harness.
- B. STRUCTURE:** Ensure the structure you will be connecting to is properly supported before using this equipment. Approach the structure using appropriate access equipment.
- C. OTHER CONSIDERATIONS:** When working on a structure do not take unnecessary risks, such as jumping or reaching too far from the edge. Be aware of all environmental hazards in the area. Do not allow your connecting subsystem to pass under your arms or between your feet.
- D. SHARP EDGES:** Avoid working where the connecting subsystem (energy absorbing lanyard) or other system components will be in contact with, or abrade against, unprotected sharp edges. If working around sharp edges is unavoidable, protection against cutting must be provided through the use of a protective cover.
- E. IN THE EVENT OF A FALL:** The responsible party must have a rescue plan and the ability to implement a rescue. Tolerable suspension time in a full body harness is limited, so a prompt rescue is critical.
- F. RESCUE:** With the number of potential scenarios for a worker requiring rescue, an on-site rescue team is beneficial. The rescue team is given the tools, both in equipment and technique, to perform a successful rescue. Training should be provided on a periodic basis to ensure rescuers proficiency.

**Figure 7 - Installation**

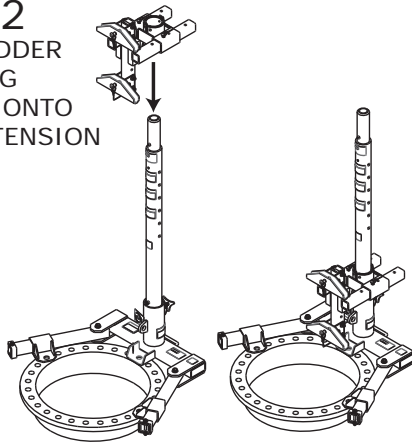


Example Base Configuration

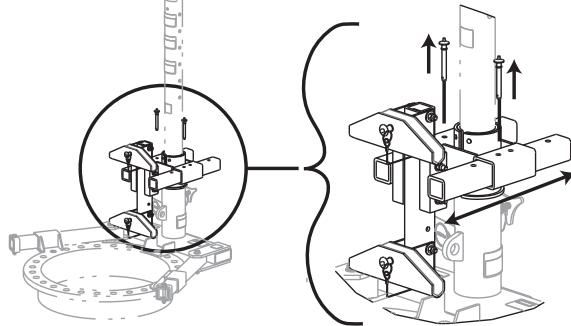
**STEP 1**  
INSERT MAST EXTENSION  
INTO BASE ASSEMBLY



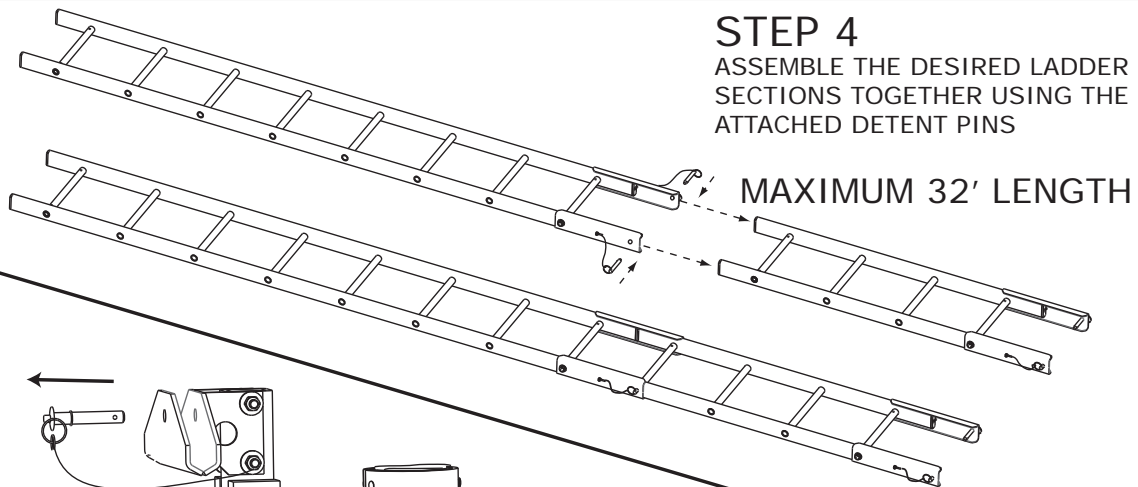
**STEP 2**  
SLIDE LADDER  
MOUNTING  
BRACKET ONTO  
MAST EXTENSION



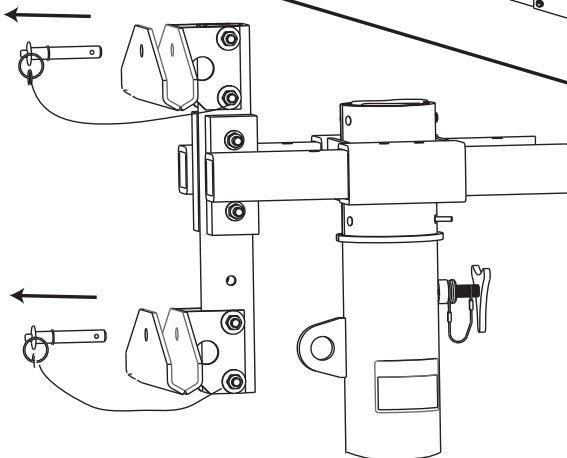
**STEP 3**  
ADJUST LADDER MOUNTING BRACKET TO  
THE CORRECT DESIRED DISTANCE.



**STEP 4**  
ASSEMBLE THE DESIRED LADDER  
SECTIONS TOGETHER USING THE  
ATTACHED DETENT PINS



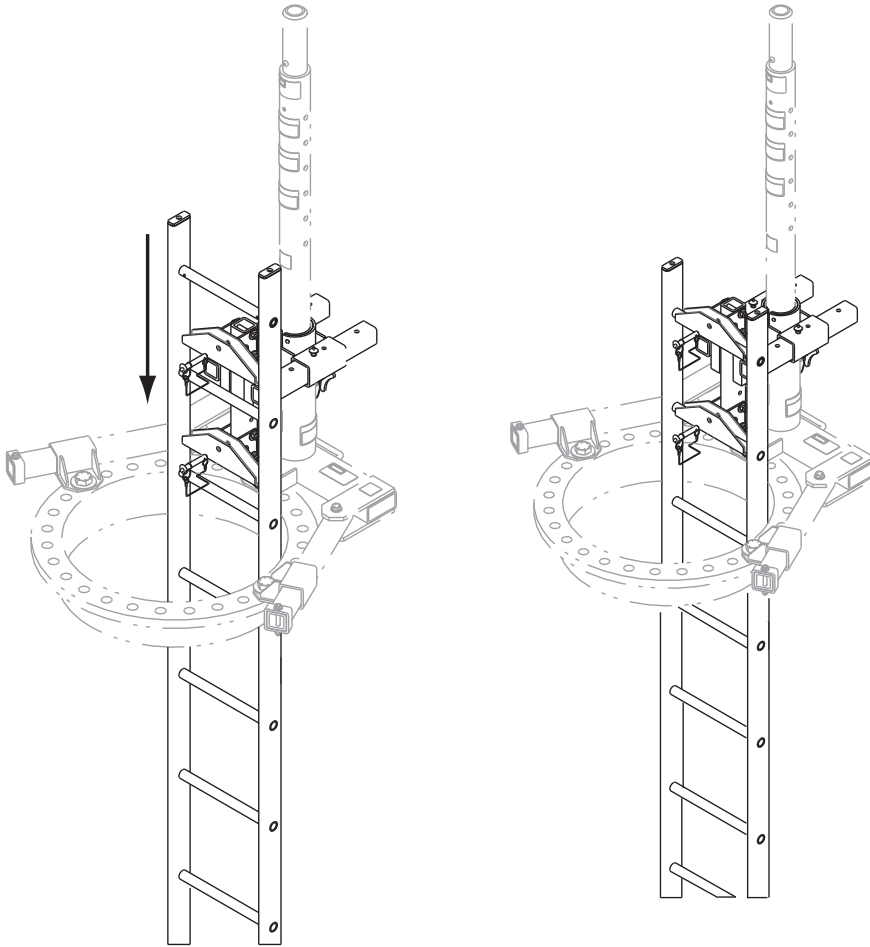
**STEP 5**  
REMOVE BOTH LADDER SECUREMENT  
BRACKET PINS.



## Figure 7 cont. - Installation

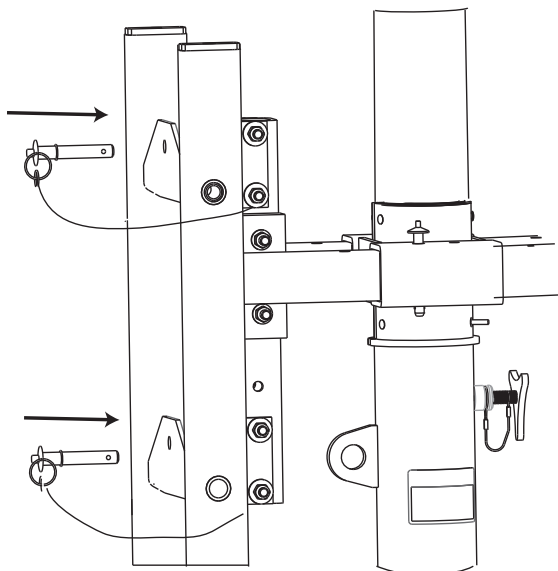
### STEP 6

SET THE LADDER ASSEMBLY FROM STEP 4 INTO THE LADDER HANGING BRACKETS UNTIL THE LADDER RUNGS ARE FULLY SEATED IN THE CHANNELS.



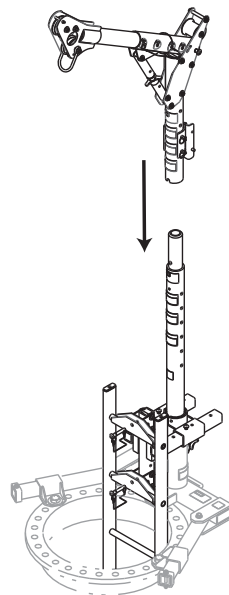
### STEP 7

RE-INSTALL LADDER SECUREMENT PINS.



### STEP 8

INSTALL DAIT HEAD ONTO MAST EXTENSION



## **4.0 TRAINING**

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

## **5.0 INSPECTION**

- 5.1 FREQUENCY:** Before each use, inspect the components according to sections 5.2 and 5.3. See Figures 1 & 2 for parts identification. All components must be formally inspected by a competent person other than the user at least annually. Record the results in the inspection and maintenance log in section 10.0

***IMPORTANT:*** *If this equipment has been damaged or compromised in any way it must be removed from service and destroyed, or returned to DBI-SALA for inspection or repair.*

### **5.2 INSPECTION STEPS:**

**Step 1.** Inspect welds and materials for cracks or damage.

**Step 2.** Inspect entire unit for excessive corrosion.

**Step 3.** Inspect labels. All product information labels must be present and fully legible.

**Step 4.** Record the inspection date and results in the inspection and maintenance log in section 10.0 of this manual.

- 5.3** If inspection reveals an unsafe or defective condition, remove unit from service and destroy, or return to DBI-SALA for repair.

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

## **6.0 MAINTENANCE, SERVICING, STORAGE**

- 6.1 CLEANING:** Periodically clean the system components using a water and a mild soap solution. Do not use acids or other caustic chemicals that could damage the system components.

**6.2 USER EQUIPMENT:** Maintain, service, and store harness and personal fall arrest components according to manufacturer's instructions.

## **7.0 SPECIFICATIONS**

### **7.1 MATERIALS:**

All materials used in the construction of this equipment are as follows:

Mild Steel  
Aluminum

## **8.0 TERMINOLOGY**

**AUTHORIZED PERSON:** A person assigned by the employer to perform duties at a location where the person will be exposed to a fall hazard (otherwise referred to as "user" for the purpose of these instructions).

**RESCUER:** Person or persons other than the rescue subject acting to perform an assisted rescue by operation of a rescue system.

**CERTIFIED ANCHORAGE:** An anchorage for fall arrest, positioning, restraint, or rescue systems that a qualified person certifies to be capable of supporting the potential fall forces that could be encountered during a fall or that meet the criteria for a certified anchorage prescribed in this standard.

**QUALIFIED PERSON:** A person with a recognized degree or professional certificate and with extensive knowledge, training, and experience in the fall protection and rescue field who is capable of designing, analyzing, evaluating and specifying fall protection and rescue systems to the extent required by this standard.

**COMPETENT PERSON:** One who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.

## 9.0 LABELING

9.1 The following labels must be present and fully legible:



## 10.0 INSPECTION AND MAINTENANCE LOG

SERIAL NUMBER: \_\_\_\_\_

MODEL NUMBER: \_\_\_\_\_

DATE PURCHASED: \_\_\_\_\_

INSPECTION DATE	INSPECTION ITEMS NOTED	CORRECTIVE ACTION	MAINTENANCE PERFORMED
Approved By:			
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## 10.0 INSPECTION AND MAINTENANCE LOG

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MODEL NUMBER: \_\_\_\_\_

DATE PURCHASED: \_\_\_\_\_

INSPECTION DATE	INSPECTION ITEMS NOTED	CORRECTIVE ACTION	MAINTENANCE PERFORMED
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SERIAL NUMBER: \_\_\_\_\_

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## 10.0 INSPECTION AND MAINTENANCE LOG

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DATE PURCHASED: \_\_\_\_\_

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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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