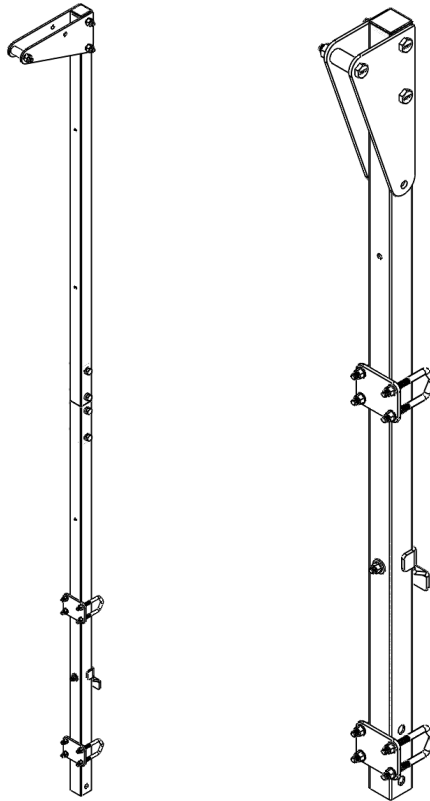




User Instruction Manual

Ladder Anchors



This manual is intended to meet the Manufacturer's Instructions as required by the American National Standards Institute (ANSI) Z359 and should be used as part of an employee training program as required by the Occupational Safety and Health Administration (OSHA).

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For the purposes of this manual, the FallTech Ladder Anchor, in all iterations may be referred to collectively as the Ladder Anchor, the Anchor, the anchor, the ladder anchor, the anchor, the anchorage connector, the equipment, the device, the product, or the unit.

Throughout this manual, ANSI Z359.0-2012 fall protection words, phrases, and terms are used. These terms are all formally defined in Section 9 of this manual.

Any non-English translations of this user instruction manual are for reference only.

1.0 Warnings and Important Information



WARNING

- Avoid moving machinery, thermal, electrical, and/or chemical hazards as contact may cause serious injury or death.
- Avoid swing falls.
- Follow the weight restrictions and recommendations in this manual.
- Remove from service any equipment subjected to fall arrest forces.
- Remove from service any equipment that fails inspection.
- Do not alter or intentionally misuse this equipment.
- Consult FallTech when using this equipment in combination with components or subsystems other than those described in this manual.
- Do not connect rebar hooks, large carabiners, or large snap hooks to the FBH dorsal D-rings as this may cause a roll-out condition and/or unintentional disengagement.
- Avoid sharp and/or abrasive surfaces and edges.
- Use caution when performing arc welding. Arc flash from arc welding operations, including accidental arcs from electrical equipment, can damage equipment and are potentially fatal.
- Examine the work area. Be aware of the surroundings and workplace hazards that may impact safety, security, and the functioning of fall arrest systems and components.
- Hazards may include but not be limited to cable or debris tripping hazards, equipment failures, personnel mistakes, moving equipment such as carts, barrows, fork lifts, cranes, or dollies. Do not allow materials, tools or equipment in transit to contact any part of the fall arrest system.
- Do not work under suspended loads.



IMPORTANT

This product is part of a personal fall arrest, restraint, work positioning, suspension, or rescue system. A Personal Fall Arrest System (PFAS) is typically composed of an anchorage and a Full Body Harness (FBH), with a connecting device, i.e., an Energy Absorbing Lanyard (EAL), or a Self-Retracting Device (SRD), attached to the dorsal D-ring of the FBH.

These instructions must be provided to the worker using this equipment. The worker must read and understand the manufacturer's instructions for each component or part of the complete system. Manufacturer's instructions must be followed for proper use, care, and maintenance of this product. These instructions must be retained and be kept available for the worker's reference at all times. Alterations or misuse of this product, or failure to follow instructions, may result in serious injury or death.

A Fall Protection Plan must be on file and available for review by all workers. It is the responsibility of the worker and the purchaser of this equipment to assure that users of this equipment are properly trained in its use, maintenance, and storage. Training must be repeated at regular intervals. Training must not subject the trainee to fall hazards.

Consult a doctor if there is reason to doubt your fitness to safely absorb the shock of a fall event. Age and fitness seriously affect a worker's ability to withstand falls. Pregnant women or minors must not use this equipment.

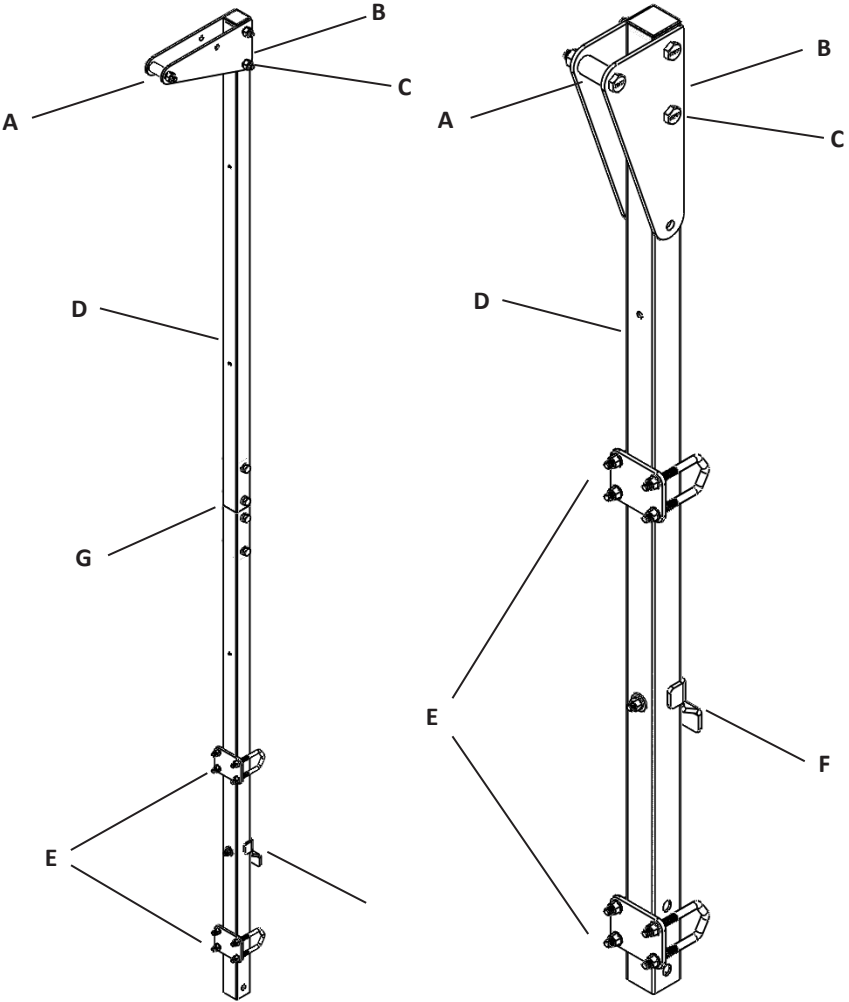
Heavy users experience more risk of serious injury or death due to falls because of increased fall arrest forces placed on the user's body. In addition, the onset of suspension trauma after a fall even may be accelerated for heavy users.

The user of the equipment discussed in this manual must read and understand the entire manual before beginning work.

2.0 Description

The FallTech® Ladder Anchor is an OSHA compliant anchorage connector for a single personal fall arrest system (PFAS) utilizing an overhead self-retracting lifeline (SRL). The Ladder Anchor is a galvanized and powder coated steel post with mounting hardware to secure to various types and sizes of fixed ladders. Two different lengths provide overhead access for ladders that both lead up to the working platform or extend past the working platform. There is also a weld-on version for applications where an existing structure above the ladder can serve as the anchor point for the self-retracting lifeline. See Tables 1 and 2 in Appendix A for specifications on the different versions of the Ladder Anchor.

The anchor discussed in this manual complies with all applicable OSHA 29 CFR 1926.502 and 1910.140 regulations. See Table 1 in Appendix A for more product specifications. Figure 1 below describes key components of the Ladder Anchor. Note: that any Ladder Anchor may be configured to have a 5" or a 12" offset. The 5" offset is ideal for tight spaces or preferable when climbing while the overhead SRL is attached to a sternal or frontal D-ring on the user's full body harness. The 12" offset is ideal when the overhead SRL is connected to the dorsal D-ring on the user's full body harness to move the lifeline out of the way of the climber. Ladder Anchors may be mounted to the front or rear of the ladder rungs as preferred by the user.



**6160500 with 6161000 Extension
Configured with 12" Offset**

**6160500
Configured with 5" Offset**

Figure 1 - About FallTech® Ladder Anchors			
A	SRL Attachment Point	E	Ladder Rung V-Bolts & Hardware
B	Anchor Offset Plates	F	Middle Rung Mount
C	Anchor Offset Hardware	G	10' Extension Assembly
D	Anchor Mast		



WARNING

**Be sure to read, understand, and follow all instructions and warnings in this manual.
Any misuse could result in serious injury or death.**

3.0 Application

3.1 Purpose:

The FallTech Ladder Anchor is designed to work as part of an overhead anchorage system with a self-retracting lifeline (SRL) to provide fall arrest for one worker when climbing vertically.

3.2 Personal Fall Arrest System:

A PFAS is typically composed of an anchorage and a FBH, with an energy absorbing connecting device, i.e., a EAL, an SRD, or a Fall Arrestor Connecting Subsystem (FACSS), attached to the dorsal D-ring of properly fitted and adjusted FBH. All uses and applications of a FBH with this equipment requires the FBH to be properly fitted and adjusted to the user. Failure to properly fit the FBH to the user could result in serious injury or death.

3.3 Application Limits:

Care should be taken to understand the capacity of the system, anchorage strength requirements, total allowable free fall, and the requirements of how the user's PFAS deploys during a fall event. The longer the freefall, the greater the energy in the system, which will result in more significant clearance requirements and impact forces on the body. Take action to avoid sharp edges, abrasive surfaces, and thermal, electrical, and chemical hazards. Installation of the anchor below the full body harness (FBH) dorsal D-ring requires the use of a PFAS designed for extended free fall scenarios. Minimum service temperature is -40°F (-40°C).

Any installation of the Ladder Anchor into a substrate that is not described by this user instruction manual shall be approved and/or certified by a Qualified Person or Professional Engineer. See Section 4 for more information on minimum and expected loads and more information about ladder rung minimum strength requirements.

3.4 Approved Applications:

Below are applications for which the Ladder Anchor are specifically suited:

3.4.1 Personal Fall Arrest:

The Ladder Anchor is designed to be used as single person anchor point for a personal fall arrest system. The Ladder Anchor is not designed for use as part of a horizontal lifeline system. Only one personal fall arrest system shall be used at a time when connected to this anchor. Connecting one worker to the attached SRL and one worker to the alternate PFAS anchor point is NOT allowed. OSHA maximum allowable free fall is 6 feet (1.8 m). PFAS must use a self-retracting lifeline that limits the maximum arrest force to 1,800 lbs. per OSHA regulations.

3.4.2 Rescue:

The Ladder Anchor may be used as an anchor in rescue operations that require specialized equipment beyond the scope of this manual.

4.0 System Requirements

4.1 Capacity:

The FallTech Ladder Anchor discussed in this manual is rated for a maximum total combined (clothing, tools, etc.) user weight of 425 lbs (192.8 kg). Heavyweight users must use an appropriately rated self-retracting lifeline. After a fall event, suspension trauma may rapidly develop. Users are advised to deploy suspension trauma relief equipment as soon as possible after a fall event.

4.2 Ladder and Ladder Rung Strength Requirements:

The FallTech Ladder Anchor must be attached to a minimum of three, 1/2" to 1-1/4" diameter, rungs of a fixed ladder with rung spacing of 12" +/- 2". Each rung must have Minimum Ultimate Strength of 1,200 lbs. The permanent structure the fixed ladder is attached to and the connections between the fixed ladder and structure must be able to withstand a load of 3,600 lbs in both the downward and outward directions. The ladder must not be mounted with a pitch greater than 90 degrees from horizontal, i.e., a ladder with an outward pitch is not permissible. When installing the unit in a

transition area from ladder to platform, roof top, etc., it is necessary for the ladder anchor to extend above the platform high enough for the snap hook of the SRL to be 5' above the platform. This is to ensure overhead tie-off is maintained when standing on the platform.

4.3 Rung Reinforcement:

Rung reinforcement bars have a Minimum Ultimate Strength of 1,200 lbs and are an optional accessory used to prevent crushing of hollow rungs and/or to reinforce hollow rungs that do not have an Ultimate Strength of 1,200 lbs. Rung reinforcement bars may be used on fixed ladders with a maximum inside width of 20", measured from the inside of each side rail. Each rung reinforcement bar consists of a galvanized 3/4" diameter x 24" threaded rod and accompanying hardware. A Qualified Person must verify the structure, ladder, and reinforced rungs meet all requirements detailed in this manual before installation of any FallTech Ladder Anchor.

4.4 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 open inadvertently regardless of how they become oriented. Contact FallTech® if you have any questions about compatibility. 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. Connectors must be compatible in size, shape, and strength. Substitutions or replacements made with non-OSHA 1926 compliant components or subsystems may jeopardize compatibility of equipment and may affect the safety and reliability of the complete system.

4.5 Making Connections:

Only use self-locking connectors 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. Visually ensure all connectors are fully closed and locked. Connectors (snap hooks, rebar hooks, and carabiners) are designed for use only as specified in this manual.

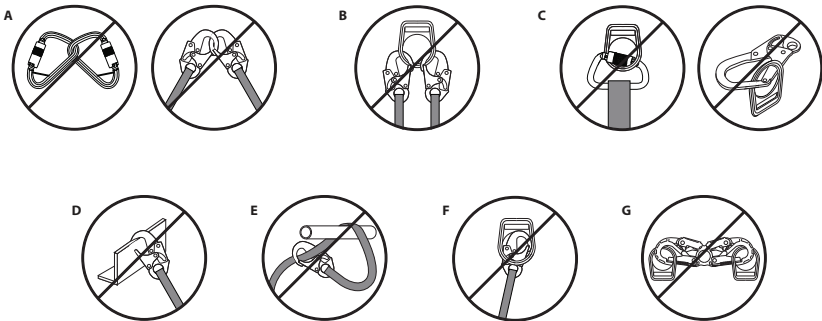


Figure 2 - Non-Compatible Connections

Figure 2 - Non-Compatible Connections	
A	Never connect two active components (snap hooks or carabiners) to each other.
B	Never connect two active components (snap hooks or carabiners) to a single D-ring at the same time.
C	Never connect in a way that would produce a condition of loading on the gate.
D	Never attach to a object in a manner whereby the gate (of the snap hook or carabiner) would be prevented from fully closing and locking. Always guard against false connections by visually inspecting for closure and lock.
E	Never attach explicitly to a constituent subcomponent (webbing, cable or rope) unless specifically provided for by the manufacturer's instructions for both subcomponents (snap hook or carabiner and webbing, cable or rope).
F	Never attach in a manner where an element of the connector (gate or release lever) may become caught on the anchor thereby producing additional risk of false engagement.
G	Never attach a spreader snap hook to two side/positioning D-rings in a manner whereby the D-rings will engage the gates; the gates on a spreader must always be facing away from the D-rings during work positioning.

4.6 Personal Fall Arrest System:

PFAS used with this equipment must meet OSHA requirements. A full body harness must be worn when this equipment is used as a component of a PFAS. As required by OSHA, the personal fall arrest system must be able to arrest the user's fall with a maximum arresting force (MAF) of 1,800 lbs (8 kN), and limit the free fall to 6 ft (1.8 m).

An anchorage selected for PFAS must have a strength able to sustain a static load applied in the direction permitted by the PFAS of at least:

- a. Two times the maximum arrest force permitted when certification exists, or
- b. 5,000 lbs. (22.2 kN) in the absence of certification.

Select an anchorage location carefully. Consider structural strength, obstructions in the fall path, and swing fall hazards. In certain situations, the qualified person can determine that a given structure is able to withstand the applied MAF of the PFAS with a safety factor of at least two.

5.0 Assembly, Installation, and Use

5.1 Ladder Anchor Assembly - 12" Anchor Offset:

All Ladder Anchors require minor assembly upon arrival before installation. Assemble the top anchor bracket using the provided Anchor Offset Plates and Hardware. Figure 3 below denotes the assembly of components to create a Ladder Anchor with a 12" anchor offset. Torque all Anchor Offset Hardware bolts to 57 ft-lbs.

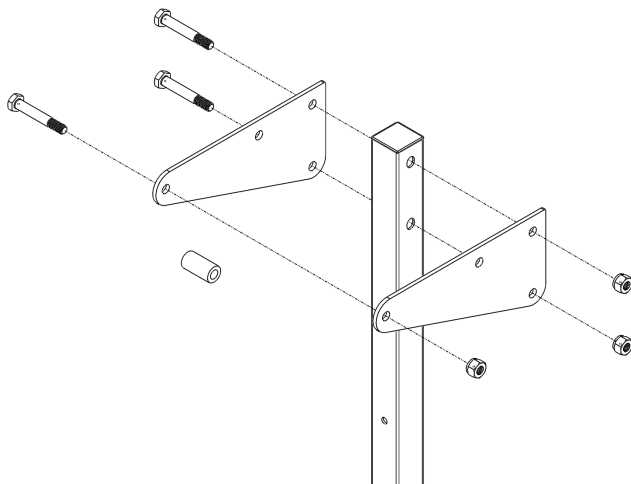


Figure 3 - 12" Offset Ladder Anchor Assembly

5.2 Ladder Anchor Assembly - 5" Anchor Offset:

All Ladder Anchors require minor assembly upon arrival before installation. Assemble the top anchor bracket using the provided Anchor Offset Plates and Hardware. Figure 4 below denotes the assembly of components to create a Ladder Anchor with a 5" anchor offset. Torque all Anchor Offset Hardware bolts to 57 ft-lbs.

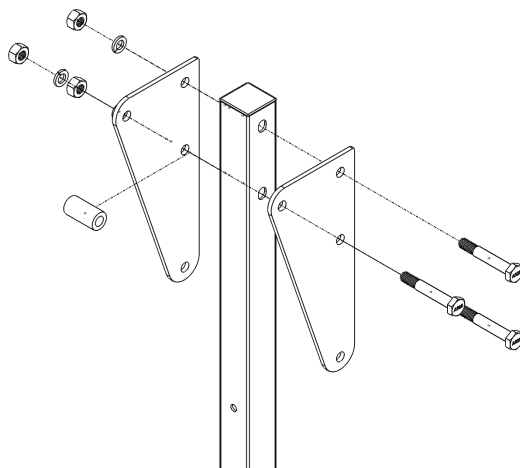


Figure 4 - 5" Offset Ladder Anchor Assembly

5.3 Ladder Anchor Assembly - 6161000 (10' Extended Ladder Anchor):

For 10' Ladder Anchors, assembling the two Anchor Mast halves is also necessary, see Figure 5. Torque all bolts to 57 ft-lbs.

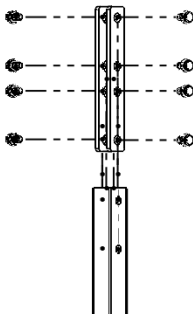


Figure 5 - 10' Extended Ladder Anchor Assembly



WARNING

Do not alter or intentionally misuse this equipment. Consult FallTech® when using this equipment in combination with components or subsystems other than those described in this manual. All components or subsystems used with the anchors discussed in this manual must be in compliance with OSHA.

Take action to avoid sharp and/or abrasive surfaces and edges when possible.

5.1. Plan the Personal Fall Arrest System (PFAS):

Examine the work area and take action to address hazards. Falls are a serious hazard when working at height. Training and equipment are the tools of fall hazard management. There are several closely related facets of fall hazard management with a PFAS;

- Anchorage
- Minimum Required Fall Clearance (MRFC)
- Swing Fall and Expanded Work Zone
- Overhead (above the FBH D-ring) Anchorage
- Non-overhead (below the FBH D-ring) Anchorage
- Rescue Plan

5.2 Minimum Required Fall Clearance:

The MRFC is the minimum distance a user needs between themselves and the nearest obstruction (or ground) below the walking/working surface to avoid serious injury or death in case of a fall event. The user of this equipment must determine the MRFC for units discussed in this manual to ensure adequate clearance exists in the fall path. Variables discussed in this manual include the height of the anchor point relative to the user's FBH D-ring, i.e., overhead, see the user manual of your specific connecting device.

5.3 Pre-Use Inspection:

FallTech requires that the following steps be taken during end user inspection prior to each use of this product.

- Inspect the Ladder Anchor and mounting hardware thoroughly for damage. Inspect all metal parts for cracks, bends, sharp edges, burrs, corrosion, or deformation of any kind.
- Inspect for rust, excessive dirt, grease, oil, paint, or other surface contamination or discoloring. If any condition exists that may compromise the integrity of the anchor, remove the anchor from service immediately.
- Inspect the labels. All labels must be present and fully legible.
- Inspect each system component or subsystem according to the associated manufacturer's instructions.
- Remove from service any system component or subsystems that fails inspection.

5.4 Ladder Anchor Installation:

Before installation, ensure fixed ladder meets minimum strength requirements of 1,200 lbs Minimum Ultimate Strength per rung, rungs are 1/2" to 1-1/4" diameter, and have a spacing of 12" +/- 2". Ensure structure and fixed ladder connections to the structure can withstand a load of 3,600 lbs in both the downward and outward directions. All installations must be approved to local standards by a Qualified Person. See Section 5.5 if Rung Reinforcements are required and must be installed before installing the Ladder Anchor. Refer to Section 7.0 for inspection requirements to be completed before the use of this product.

Determine desired mounting location. The Ladder Anchor is capable of being mounted in the center of (3) rungs to optimize climbing comfort or offset to either side of the ladder to enable the user to transition onto a platform, rooftop, etc. The Ladder Anchor can also be mounted to the front or rear of the ladder rungs depending on allowable clearance; see Figures 6 for all four different installation orientations. Ensure Ladder Anchor is mounted high enough to maintain overhead SRL anchorage.

If installing the Ladder Anchor to the rear of the ladder rungs, it is necessary to reinstall the Bent Center Mount in the required orientation with the included 3/8" diameter bolt, washer, lock washer, and nut; torque to 15 ft-lbs; see Figure 6B or 6D.

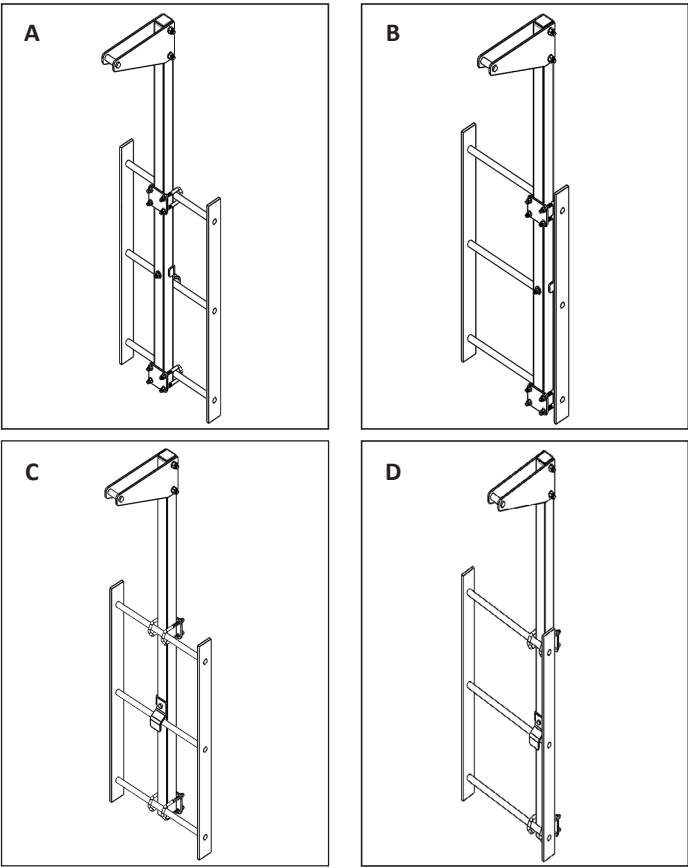


Figure 6 - Ladder Anchor Installation Orientations

Figure 6 - Ladder Anchor Installation Orientations	
A	Center and Front Mounted (Typical Installation)
B	Offset and Front Mounted (Ideal for open ladders with limited topside access)
C	Center and Rear Mounted (Typical Installation for ladders in tight spaces; reduces SRL offset)
D	Offset and Rear Mounted (Ideal for open ladders in tight spaces with limited topside access)

Place the Anchor onto the fixed ladder using the Bent Center Mount to hold the anchor in place; see Figure 7A.

Connect top mount bracket to uppermost of the (3) rungs using (2) V-bolts with nuts, lock washers, and mounting plate. Ensure Ladder Anchor is positioned in desired location on rungs and is fully upright. Tighten V-Bolts so ladder anchor is stable, but do not fully torque bolts until all mounts are attached; see Figure 7B.

Connect bottom mount bracket to lowermost of the (3) rungs using (2) V-bolts with nuts, lock washers, and mounting plate. Tighten V-Bolts so ladder anchor is stable, but do not fully torque bolts; see Figure 7C.

Ensure Ladder Anchor is fully upright and in desired location. Torque all V-Bolts to 12-17 ft-lbs in the order they were installed. When torquing V-Bolts, it is necessary to alternate the tightening of the nuts in small increments to ensure the V-Bolt is evenly tightened. See Figure 7D.

Install compatible FallTech SRL to attachment point using approved carabiner. Connect tagline to SRL.

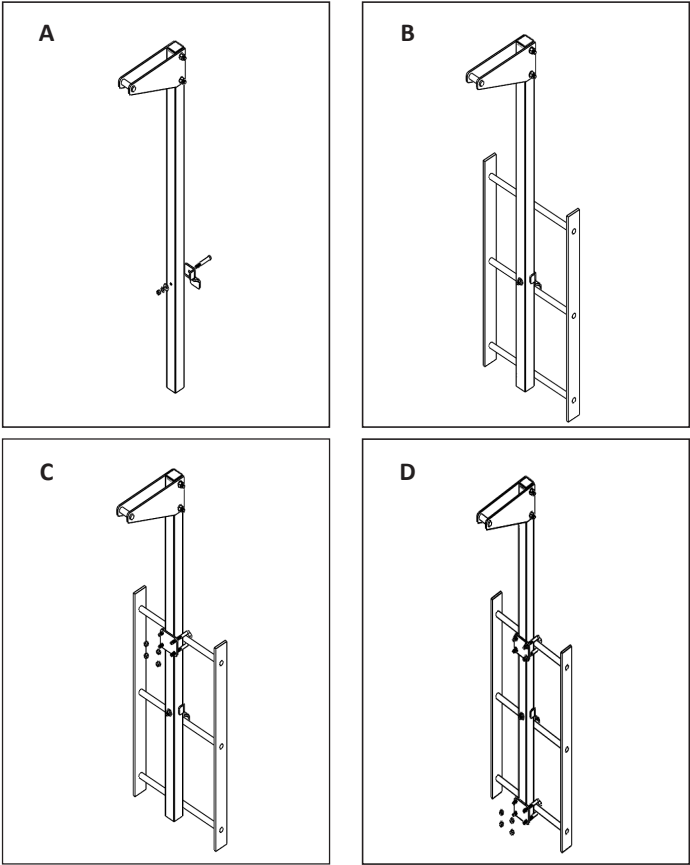


Figure 7 - Ladder Anchor Installation Procedure

A	Place the Anchor onto the fixed ladder using the Bent Center Mount to hold the anchor in place.
B	Connect top mount bracket to uppermost of the (3) rungs using (2) V-bolts with nuts, lock washers, and mounting plate. Ensure Ladder Anchor is positioned in desired location on rungs and is fully upright. Tighten V-Bolts so ladder anchor is stable, but do not fully torque bolts until all mounts are attached
C	Connect bottom mount bracket to lowermost of the (3) rungs using (2) V-bolts with nuts, lock washers, and mounting plate. Tighten V-Bolts so ladder anchor is stable, but do not fully torque bolts
D	Ensure Ladder Anchor is fully upright and in desired location. Torque all V-Bolts to 12-17 ft-lbs in the order they were installed. When torquing V-Bolts, it is necessary to alternate the tightening of the nuts in small increments to ensure the V-Bolt is evenly tightened.

5.5 Rung Reinforcement Installation:

All installations must be approved by a Qualified Person. Ensure the reinforced rungs, ladder, and structure meet all requirements detailed in this manual before installation of the Ladder Anchor. The maximum allowable inside width of ladder rails is 20". Refer to Section 7.0 for inspection requirements to be completed before the use of this product.

Identify the ladder rungs which the Ladder Anchor is to be installed on. Insert one reinforcement rod into each hollow rung requiring reinforcement. Install the included washers, hex nuts, and jam nuts onto each threaded rod in the order shown; see Figure 8. Snug inner hex nuts against ladder side rails and torque outer jam nuts against inner hex nuts to a minimum of 57 ft-lbs; see Figure 8.

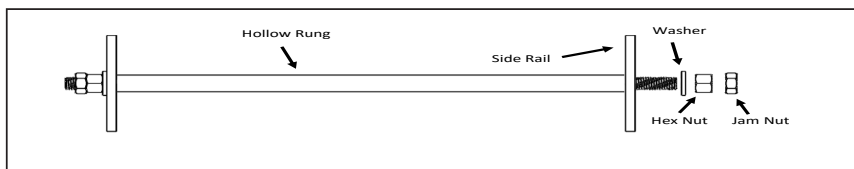


Figure 8 - Rung Reinforcement Installation

5.6 Product Use:

A Pre-Use Inspection is required before the use of this product. Please refer to Section 7.0 for Pre-Use Inspection requirements.

The user must maintain 100% tie-off while ascending and descending the climbing area, as well as when transitioning to or from the climbing area. Avoid swingfalls when climbing and transitioning from the climbing area. Use alternate fall protection when the Ladder Anchor is not directly overhead.

When not in use, the SRL needs to be kept fully retracted. A tagline is to be attached to the SRL snaphook in order to extract the cable to begin use. After use, slowly and uniformly retract the cable of the SRL. Do not allow the SRL cable to freewheel back into the unit.

6.0 Maintenance, Service, and Storage

6.1 Maintenance:

Clean the FallTech® Ladder Anchor with water and mild detergent. Do not allow excessive build-up of dirt, paint or other agents that may cause accelerated wear. Avoid water or other corrosion causing elements to enter the anchor.

6.2 Proper Care:

- Keep the Ladder Anchor clean and free of contaminants, this will increase the service life.
- As needed, use a damp rag and a mild soap and water solution to clean the hardware. Wipe the hardware dry with a clean soft cloth.
- DO NOT use heat to dry.
- DO NOT use any solvents or petroleum products to clean this anchor.
- DO NOT attempt to repair or modify this Ladder Anchor or any of its components. Such attempts will void the warranty and may result in serious injury or death.

7.0 Inspection

7.1 Pre-Use Inspection:

Please review the Pre-Use Inspection guidelines in Section 5.3 for inspection requirements.

7.2 Inspection Frequency:

Inspection by a Competent Person at regular intervals is required; at minimum annually. The Competent Person will use the information in Table 1: Inspection Frequency, to determine the inspection frequency.

7.3 Inspection Results:

If an inspection reveals defects in or damage to the equipment, inadequate maintenance or activated fall indicators, remove the equipment from service.

7.4 Inspection Document:

Record inspection results on the Inspection Record provided below or on a similar document.

Table 1: Inspection Frequency			
Type of Use	Application Examples	Example Conditions of Use	Competent Person Inspection Frequency
Infrequent to Light Use	Rescue and Confined Space, Factory Maintenance	Good Storage Conditions, Indoor or Infrequent Outdoor use, Room Temperature, Clean Environments	Annually
Moderate to Heavy Use	Transportation, Residential Construction, Utilities, Warehouse	Fair Storage Conditions, Indoor and extended outdoor use, All temperatures, Clean or dusty environments	Semi-annually to Annually
Severe to Continuous Use	Commercial construction, oil and gas, mining, foundry	Harsh Storage Conditions, Prolonged or Continuous outdoor Use, all temperatures, Dirty environments	Quarterly to Semi-annually

Inspection Record

Model #: _____ Serial #: _____ Date of Manufacture: _____

[illegible]

8.0 Labels

The labels must be present and legible.

FALLTECH®

LADDER STANCHION ANCHOR

Model #:
Date of Mfr:
Serial #:

OSHA 1926.502
Minimum Breaking Strength: 3,600 lbs.
Capacity: 425 lbs. OSHA Only

Read User Instruction Manual
Before Use.

⚠

WARNING

Always read and follow the manufacturer's instructions, labels, and warnings before use. Failure to do so can result in serious injury or death. If unit is subjected to a fall or falls inspection, remove from service immediately. See user manual for installation requirements, rung strength requirements, and inspection criteria. Only one PFAS may be installed per anchor. Self-retracting devices must have a Maximum Arrest Force of 1,800 lbs. or LESS to provide a 2:1 safety factor. See SRD manual for inspection and use requirements. Do not side load or misuse this product. Do not use if unsafe conditions are present. Always log inspection results in the user manual.

800.719.4619 • www.falltech.com
412-04216 Rev A

DO NOT REMOVE LABEL

FALLTECH®

LADDER STANCHION ANCHOR

YEAR

J

F

J

M

A

M

J

J

A

S

O

N

D

INSPECTION GRID

PLEASE MARK ON DATE GRID

AI INITIAL SERVICE YEAR

BI DAY OF PASSED INSPECTION UNDER MONTH

Units should be thoroughly inspected annually. If unit fails inspection remove it from service immediately. See user instruction manual for inspection guidelines.

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412-04738 Rev A

DO NOT REMOVE LABEL

9.0 Specifications

Table 2: Specifications for FallTech® Ladder Anchor		
Part #	Minimum Tensile Strength and Material	Capacity and Standards
6160500 5' Ladder Anchor	Galvanized and Powder Coated Alloy Steel	OSHA Single User Capacity: 85 to 425 lbs. (39 to 191 kg)
6161000 Extension Post to make 6160500 into 10' Ladder Anchor		
		OSHA 1926.502 OSHA 1910.140