



Instruction & Specification Manual for Permanent Fall Arrest Anchors: #PPA-0001-001, #PPA-0001-002, #PPA-0001-003

Purpose:

The UST Permanent Pole Anchor is a fall protection anchorage device designed for use as an attachment of personal fall arrest, restraint, work positioning, or rescue system on new and existing wood and steel utility poles. The curved mounting plate with the attached D-ring allows utility companies to install the fall protection anchor in place of the concave washers on new or already existing utility pole through bolts. Utility companies can install the anchor at numerous locations on their poles for permanent fall protection and rescue operations.

Description:

- #PPA-0001-001 Pole Anchor with no attachment hardware (customer supplied hardware)
- #PPA-0001-002 Pole Anchor with flat mounting plate, no attachment hardware for use on non-radius surfaces

Application:

Anchor is manufactured from domestic 11 gauge steel and a drop-forged D-ring. The D-ring anchor is rated for OSHA standard of 5,000 pounds. The assembly is hot-dipped galvanized to protect the anchor surface from wood preservatives and exposure to the elements. The 5/8" attachment hole allows utility companies to retrofit the anchor on existing 5/8" through bolts already on the pole in the place of backer washers.

- **Fall Restraint with a Positioning or Restraint Belt:** When utilizing the UST anchor with a work positioning/fall restraint belt, the anchor has to be used in the fall restraint mode of fall protection. The maximum free fall distance that the worker may subject himself and the equipment to is 2' or less as per OSHA 1926:502(d)(16)(i) and limit the arresting force to no more that 900 pounds of force.
- **Fall Arrest with a Full Body Harnesses:** When utilizing the UST anchor with a full body harness, the anchor may be used in the fall arrest mode of fall protection. The maximum free fall distance that the worker may subject himself and the equipment to is 6' as per OSHA 1926:502(d)(16)(ii) and must limit the arresting force to no more than 1,800 pounds of force load

Installation for #PPA-0001-001, #PPA-0001-002:

The anchor simply installs on the head or nut end of a minimum 5/8" through bolt commonly found on utility poles. Simply place the through bolt into the hole of the anchor and secure with a nut onto the pole. One through bolt may have an anchor on each end of it so than more that one worker can utilize fall protection on the pole. On existing poles, simple remove the current washer plate on the pole by removing the 5/8" nut. Install the UST anchor in place of the washer and reinstall the 5/8" nut until tight.



remove the nut from bolt



remove existing washer



install anchor onto bolt



tighten nut over anchor



attach lanyard for use

Limitations:

Customer Supplied Hardware: This anchor has been designed, engineered, and tested using a minimum 5/8" through bolt. If existing hardware is going to be utilized, you must ensure that the bolt and nut are able to withstand 2 times the intended load or the fall arrest rating of 5,000 pounds. Part #PPA-0001-001 does not come with factory hardware. A qualified person must determine if the bolt to which the anchor is going to be attached to meets the current OSHA minimum standard. OSHA requires a 5,000 pound force load or able to withstand two times the intended force load. If non-UST attachment hardware is used, liability is assumed by the company, employee, or contractor who is installing the anchorage point. When in doubt, replace the current min. 5/8" through bolt with a new bolt. If the current bolt/nut is to be used, ensure that it is free from corrosion, bends, cracks, deformities, rust, physical damage of any kind, or any other possible issues that might affect the strength integrity of that hardware. Current available data shows the following regarding course thread 5/8" bolt tensile strength per grade and size:

Grade 2 = 16,700lbs. Grade 5 = 27,100lbs. Grade 8 = 33,900 pounds *source "Calgary Fasteners"

Capacity: This anchor point is designed for use by persons with a combined weight of no more that 310 pounds including clothing, tools, etc.,. No more that one personal protective system may be connected at a time unless used in a rescue situation.

Environmental Hazards: Use of this equipment in areas where environmental hazards exist may require additional precautions to limit the possibility of injury to the user or damage to the equipment. Hazards may include but are not limited to: High voltage power lines, high heat, caustic chemicals, corrosive environments, explosive or toxic gases, moving machinery, sharp edges,

Free Fall: Personal fall arrest systems used with this product must be rigged to limit the free fall distance to 6' or less as per ANSI Z359.1. Restraint systems must be rigged so that no vertical free fall is possible. Work positioning systems must be rigged so that free fall distance is limited to 2' or less. Rescue systems must be rigged so that no vertical free fall is possible.

Fall Distance: There must be sufficient clearance below the user to arrest a free fall before he strikes the ground or other obstruction. The clearance required is dependant but not limited to the following factors: Free fall distance, deceleration distance, worker height, shock absorbing length, etc. A hazard assessment by a trained and competent person is recommended before any work ensues that would include the use of fall protection.

Warnings:

UST, Inc. believes that it is critical for the owner/user of this fall protection equipment to read and understand these instructions. In addition, it is also the employer's responsibility to insure that all users are trained in the proper use, inspection, and maintenance of this and all fall protection equipment. Fall Protection training should be an integral part of a comprehensive safety program.

Proper use of fall arrest systems can save lives and reduce the potential of serious injuries from a fall. The user must be aware that forces experienced during the arrest of a fall or prolonged suspension may cause bodily harm or injury. Consult a physician if there is any question about the user's ability to use this product. Pregnant women and minors must not use this product.

- All persons using this equipment must read and understand all instructions
- Failure to do so may result in serious injury or death
- Do not use this equipment unless you are properly trained
- All equipment must be inspected before each use according to the manufacturer's instructions
- All equipment should be inspected by a qualified person before use
- Caution should be taken to remove obstructions, debris, material, or other hazards from the work area
- Equipment must not be altered in any way
- A competent person must ensure system component compatibility to help minimize accidental disengagement
- Any equipment subjected to a fall must be removed from service
- The user shall have a rescue plan and the means at hand to implement it when using this equipment
- If you have any questions regarding the use of this product, please contact UST, Inc. at 425-577-3190
- This Instruction/Specification manual is available on our website at www.utilityanchor.com
- This anchor is designed to be used as a single person anchorage point for "Fall Arrest" and "Fall Restraint"
- User must ensure component compatibility with any PPE used in conjunction with this anchorage point
- Any product exhibiting deformities, unusual wear, or deterioration must be immediately discarded
- Equipment must not be altered in any way.
- All warnings and instructions shall be provided to authorized persons
- To minimize the potential for accidental disengagement, a competent person must ensure component compatibility

Inspection:

The UST PPA series of anchors are specifically designed for the harsh environment commonly found in the utility industry today. To maintain the service life and performance, all components including the attachment bolt should be visually inspected before each use. Regular inspection by a competent person for wear, damage or corrosion should be part of your safety program. Replace the anchor if any of the following conditions exist:

- Physical damages, wear or corrosion to D-ring or mounting plate
- Distorted, cracked, bent, or deformed D-ring or mounting plate
- There should be no space between the anchor mounting plate and its mounting surface

Training:

This equipment must be installed and used by persons trained in its correct application, use, installation, operation, maintenance, and limitations of this product. Training should be conducted periodically and without exposing the trainee to a fall hazard. Refer to local, state, and federal standard including OSHA and ANSI for requirements governing occupational safety

Compliance:

This product is designed to comply with the following standards when used in accordance with this instruction manual. Standards might also include other applicable OSHA standards, and specific state regulations.

North America: OSHA 1926.502(d)(15), ANSI Z359.1, CSA Z259.15

UK: BS7883:2005, BS EN 795:1997

Europe: EN 795:1996, CE89/686/EEC

Australia: AS/NZS 1891.4

Specifications:

Anchor Plate Material: 11 gauge hot-rolled steel hot-dipped galvanized. Rated for 5,000 pounds fall arrest

Anchor D-Ring: Drop forged, proof loaded, hot dipped galvanized. Rated for 5,000 pounds/22.4 kn

Anchor Coating: Hot-Dipped Galvanized

Warranty:

UST, Inc. warrants to the purchaser that this product is free from defect in material and workmanship at the time of shipment. Obligation under this warranty is limited to product replacement for the period of 5 years from the date of installation or use by the owner, provided that this period shall not exceed two 2 years from the date of shipment. This warranty is not transferable. No other person or firm is authorized to assume or assign for UST, Inc. any other liability in connection with the sale or use of this product. This warranty is void if any product is changed or altered in any way or if the product is used in a manner other than for which it is intended. This warranty only covers defects in material and workmanship; it does not cover conditions resulting from normal wear and tear, neglect, abuse or accident. All returns to UST, Inc. must have a return authorization.

Legal:

The singular use of the word "manufacturer" and "factory" in this manual refer to UST, Inc. This document represents the primary form of the Instruction/Specification Manual for this product and must be referred to when cited by any supplemental instructions. Do not use instruction by any other manufacture for this product. Supplemental instruction or specifications must be provided in written form from the manufacturer.

Contact:

Utility Safety Technologies can be contacted by calling the following number. Sales and Technical Support (425) 577-3190.

E-mail us at mark@utilityanchor.com for any questions you may have regarding our products. Visit us at www.utilityanchor.com.