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Hampton 5230214

Hampton U-Bolt Installation and Maintenance Guide

Model: 5230214 | Ref.No. 222-208

INTRODUCTION

This manual provides essential instructions for the proper installation, use, and maintenance of your Hampton U-Bolt. Please read this guide thoroughly before installation to ensure safe and effective application.

PRODUCT OVERVIEW



Figure 1: Hampton U-Bolt assembly.

A close-up view of the Hampton U-Bolt, featuring its U-shaped zinc-plated metal body, threaded legs, a flat washer, and two hexagonal nuts securely fastened at the bottom. This image illustrates the complete U-bolt component.

The Hampton U-Bolt (Model 5230214, Ref.No. 222-208) is a versatile fastener designed for securing pipes, conduits, or other round objects to a support structure. Constructed from zinc-plated steel, it offers durability and corrosion resistance for various applications.

Key Features:

- **Material:** Zinc-plated steel for enhanced durability and corrosion resistance.
- **Thread Diameter:** 3/8 inch.
- **Wire Diameter:** 0.327 inch.
- **Inner Diameter (between legs):** 2-1/2 inches.
- **Inside Length:** 3-5/8 inches.
- **Fastener Type:** U-Bolt, U-shape head style.

SETUP AND INSTALLATION

Proper installation is crucial for the U-bolt's performance and safety. Ensure all components are present and undamaged before proceeding.

Required Tools (Not Included):

- Wrench (appropriate size for 3/8 inch nuts)
- Measuring tape
- Marking tool

Installation Steps:

1. **Prepare the Mounting Surface:** Identify the location where the U-bolt will be installed. Ensure the surface is clean, stable, and capable of supporting the intended load.
2. **Position the Object:** Place the pipe, conduit, or object to be secured within the U-bend of the U-bolt.
3. **Insert Legs Through Support:** Guide the threaded legs of the U-bolt through pre-drilled holes in the support structure or mounting plate. The spacing of the holes should match the inner diameter of the U-bolt legs (2-1/2 inches center-to-center).
4. **Attach Washer and Nuts:** Once the legs pass through the support, place the flat washer over both threaded ends. Then, thread a hexagonal nut onto each leg.
5. **Tighten Securely:** Using a wrench, gradually tighten both nuts evenly. Alternate tightening each nut to ensure uniform pressure and prevent bending of the U-bolt or damage to the secured object. Do not overtighten, as this can strip threads or deform the U-bolt. Tighten until the object is firmly secured without crushing it.
6. **Verify Stability:** After tightening, check that the secured object is stable and does not move excessively.

OPERATING CONSIDERATIONS

The Hampton U-Bolt is a static fastening component. Its "operation" involves maintaining a secure hold on the object it fastens. Ensure the U-bolt is used within its intended load-bearing capacity and environmental conditions.

- Do not exceed the recommended load for the U-bolt and the supporting structure.
- Avoid exposing the U-bolt to corrosive chemicals that may compromise the zinc plating, unless specifically designed for such environments.
- Regularly inspect the U-bolt for signs of wear, corrosion, or loosening.

MAINTENANCE

Minimal maintenance is required for the Hampton U-Bolt. Periodic inspection is recommended to ensure continued performance and safety.

- **Visual Inspection:** Periodically check the U-bolt for any visible signs of damage, such as bending, cracks, or significant corrosion.
- **Tightness Check:** Re-check the tightness of the nuts annually, or more frequently in high-vibration environments. Retighten if any loosening is detected.
- **Cleaning:** If necessary, clean the U-bolt with a damp cloth to remove dirt or debris. Avoid abrasive cleaners that could damage the zinc plating.
- **Replacement:** If the U-bolt shows signs of severe corrosion, deformation, or thread damage, replace it immediately with a new, equivalent fastener.

TROUBLESHOOTING

Most issues related to U-bolts stem from improper installation or environmental factors. Here are common issues and their solutions:

Problem	Possible Cause	Solution
Object is loose after installation	Nuts not tightened sufficiently; U-bolt size incorrect for object.	Retighten nuts evenly. Ensure U-bolt inner diameter matches object diameter.
U-bolt appears bent or deformed	Overtightening; excessive load; incorrect installation.	Replace the U-bolt. Review installation steps and load limits.
Corrosion or rust visible	Exposure to harsh environmental conditions; damage to zinc plating.	Clean and inspect. If severe, replace the U-bolt. Consider protective coatings for harsh environments.
Threads are stripped	Overtightening; cross-threading during installation.	Replace the U-bolt and nuts. Ensure proper alignment when threading.

SPECIFICATIONS

Brand	Hampton
Model Number	5230214
Reference Number	222-208
Material	Zinc-plated Steel
Exterior Finish	Zinc
Thread Diameter	3/8 inches
Wire Diameter	0.327 inches
Inner Diameter (between legs)	2-1/2 inches
Inside Length	3-5/8 inches
Fastener Type	U-Bolt
Head Style	U-Bolt
Thread Style	Right Hand
Manufacturer Grade	Grade 8 8
Item Weight	3 pounds
Product Dimensions	6 x 4.8 x 3.5 inches
Item Package Quantity	1
Measurement System	Inch

UPC	039208210362
Manufacturer	Ace Trading Atw
Date First Available	November 18, 2010

WARRANTY AND SUPPORT

For warranty information and customer support regarding your Hampton U-Bolt, please refer to the manufacturer's official documentation or contact Hampton directly. The product comes with a standard warranty; specific terms and conditions may apply.

Manufacturer: Ace Trading Atw

Part Number: 02-3450-126

For further assistance, please visit the Hampton website or contact their customer service department.

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