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### National Hardware N221-267

# National Hardware N221-267 3/8" x 4" Zinc Plated Eye Bolt Instruction Manual

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective use of the National Hardware N221-267 3/8" x 4" Zinc Plated Eye Bolt. Designed for both home and industrial applications, this eye bolt offers a reliable solution for various fastening and hanging needs. Please read these instructions carefully before installation and use.



Figure 1: National Hardware N221-267 3/8" x 4" Zinc Plated Eye Bolt

## 2. PRODUCT FEATURES

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- **Versatile Application:** Designed for both home and industrial use.
- **Durable Construction:** Manufactured from high-quality steel wire for enhanced strength and longevity.
- **Corrosion Resistance:** Features zinc plating for protection against rust and corrosion, suitable for interior and exterior applications.
- **Easy Installation:** Simple design allows for straightforward setup.

- **High Load Capacity:** Offers a Safe Working Load (SWL) of 160 lbs, ensuring secure fastening for various tasks.

### 3. SETUP AND INSTALLATION

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Proper installation is crucial for the safe and effective use of the eye bolt. Always ensure the mounting surface is strong enough to support the intended load.

1. **Select Location:** Choose a location with adequate structural support. For wood, ensure the wood is free of cracks or defects. For masonry or concrete, use appropriate anchors (not included).
2. **Drill Pilot Hole:** Drill a pilot hole slightly smaller than the threaded shaft of the eye bolt. The depth of the pilot hole should accommodate the full length of the threaded shaft.
3. **Insert Eye Bolt:** Thread the eye bolt into the pilot hole. For maximum security and load distribution, use a washer and nut on the opposite side of the mounting surface if access allows.
4. **Tighten Securely:** Hand-tighten the eye bolt until snug. If using a nut, tighten it firmly with a wrench. Do not overtighten, as this can strip threads or damage the mounting surface.



Figure 2: Eye Bolt with Nut and Washer for secure installation

### 4. OPERATING INSTRUCTIONS

The National Hardware N221-267 Eye Bolt is designed for hanging, securing, or anchoring items. Always adhere to the Safe Working Load (SWL) of 160 lbs to prevent failure and ensure safety.

- **Load Application:** Apply loads in line with the eye bolt's shaft. Avoid side loading or angular loading, as this significantly reduces the eye bolt's load capacity and can lead to failure.
- **Attachment:** Use appropriate hardware (e.g., ropes, chains, hooks) that are compatible with the eye's opening and rated for the intended load.
- **Regular Inspection:** Before each use, inspect the eye bolt and its connection points for any signs of wear, damage, or corrosion.



Figure 3: Close-up of the Eye Bolt's Thread and Eye

## 5. MAINTENANCE

To ensure the longevity and continued performance of your eye bolt, follow these maintenance guidelines:

- **Regular Inspection:** Periodically check the eye bolt for any signs of rust, bending, cracks, or deformation. Pay close attention to the threads and the eye itself.
- **Cleaning:** Clean the eye bolt as needed to remove dirt, debris, or corrosive substances. A mild detergent and water can be used, followed by thorough drying.
- **Zinc Plating:** The zinc plating provides corrosion resistance. If the plating shows significant wear or damage, consider replacement to maintain protective qualities, especially in outdoor or harsh environments.
- **Storage:** Store unused eye bolts in a dry environment to prevent premature corrosion.

## 6. TROUBLESHOOTING

If you encounter issues with your eye bolt, consider the following:

- **Loose Fit:** If the eye bolt feels loose after installation, ensure it was tightened correctly and that the pilot hole was not oversized. If necessary, remove, inspect the threads, and re-install with appropriate measures (e.g., thread locker for non-load bearing applications, or a larger diameter eye bolt if the hole is

compromised).

- **Corrosion:** While zinc plated, prolonged exposure to harsh elements or damage to the plating can lead to corrosion. If significant rust is present, replace the eye bolt immediately to prevent structural failure.
- **Deformation/Bending:** Any visible deformation or bending of the eye bolt indicates it has been overloaded or improperly used. Discontinue use immediately and replace the eye bolt. Never attempt to straighten a bent eye bolt.

## 7. SPECIFICATIONS

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Specification	Detail
Model Number	N221-267
Fastener Size	3/8" x 4"
Material	Alloy Steel
Exterior Finish	Zinc Plated
Safe Working Load (SWL)	160 lbs
Thread Size	5/8"-11
Thread Type	Left Hand
Thread Coverage	Fully Threaded
Item Weight	2.9 Ounces
Item Dimensions	10 x 5.6 x 1 inches
UPC	038613123410

## 8. WARRANTY

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This National Hardware product comes with a standard manufacturer's warranty. For specific details regarding coverage and duration, please refer to the warranty information provided with your purchase or visit the official National Hardware website.

## 9. SUPPORT

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For further assistance, technical support, or inquiries regarding the National Hardware N221-267 Eye Bolt, please contact National Hardware customer service. You can find contact information on the product packaging or the official National Hardware website.

## 10. OFFICIAL PRODUCT VIDEO

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Your browser does not support the video tag.

Video: National Hardware, Built on Inspiration. This video highlights National Hardware's commitment to quality and craftsmanship across its product range.

