

Hillman 831642

Hillman Group 831642 3/8-16 x 4-Inch Stainless Steel Hex Cap Screw Instruction Manual

Model: 831642

1. PRODUCT OVERVIEW

The Hillman Group 831642 Hex Cap Screws are designed for applications requiring a strong, durable fastener, particularly in outdoor or corrosive environments. These screws are manufactured with tighter tolerances than standard hex bolts, making them suitable for a wide range of fastening needs. They feature a washer surface directly under the head, which aids in creating a better seal and distributing load.

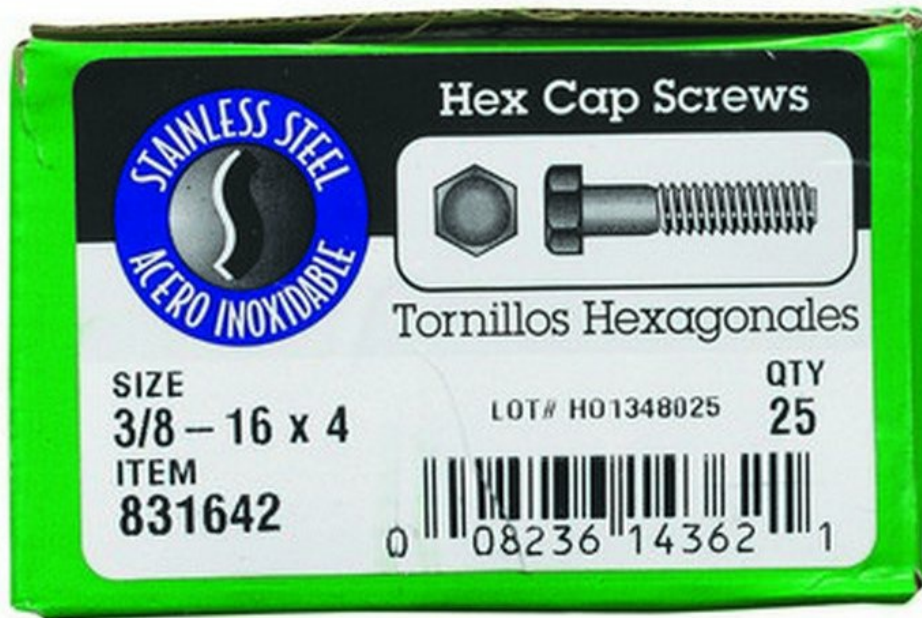


Figure 1: A single Hillman Group 831642 3/8-16 x 4-Inch Stainless Steel Hex Cap Screw. This image displays the hexagonal head, the unthreaded shank, and the partially threaded shaft of the screw, highlighting its stainless steel finish.

Key Features:

- **Material:** Constructed from Stainless Steel for enhanced corrosion resistance and durability.
- **Washer Surface:** Features a washer surface directly under the head to improve sealing and load distribution.
- **Versatile Application:** Can be used with nuts or installed directly into compatible internally threaded holes.
- **Precision Manufacturing:** Manufactured with tighter tolerances for reliable performance.

2. SETUP AND INSTALLATION

These hex cap screws are designed for secure fastening in various applications. Proper installation ensures optimal performance and safety.

Installation Steps:

1. **Select Correct Size:** Ensure the screw's diameter (3/8-16) and length (4-inch) are appropriate for your application. The thread pitch (16 threads per inch) must match the receiving nut or internally threaded hole.
2. **Prepare the Hole:** If fastening into an unthreaded material, pre-drill a pilot hole of the correct diameter. If using with a nut, ensure the nut's thread matches the screw.
3. **Insert Screw:** Place the hex cap screw through the components to be joined.
4. **Tighten:** Use an appropriate wrench or socket to tighten the hex head. Apply sufficient torque to secure the connection without over-tightening, which can strip threads or damage materials. The integrated washer surface helps distribute the clamping force evenly.
5. **Check Security:** After tightening, verify that the connection is secure and stable.

Note: For outdoor or high-stress applications, consider using a locking washer or thread-locking compound in conjunction with the screw for added security, though the integrated washer surface provides a good initial seal.

3. USAGE GUIDELINES

Hillman Hex Cap Screws are designed for robust fastening. Their stainless steel construction makes them ideal for environments where resistance to rust and corrosion is critical, such as marine, outdoor, or chemical processing applications. The hex head allows for high torque application, ensuring a strong and reliable joint. Always ensure the load applied to the fastener does not exceed its rated capacity.

4. MAINTENANCE

Due to their stainless steel construction, these hex cap screws require minimal maintenance. Stainless steel inherently resists rust and corrosion. However, to ensure longevity and optimal appearance:

- **Cleaning:** If exposed to dirt, grime, or corrosive substances, periodically clean the screws with a mild detergent and water. Rinse thoroughly and allow to air dry.
- **Inspection:** Regularly inspect fasteners in critical applications for any signs of loosening or damage. Re-tighten if necessary.
- **Avoid Contamination:** Prevent contact with carbon steel or other metals that could cause galvanic corrosion in certain environments.

5. TROUBLESHOOTING

While hex cap screws are generally straightforward, here are some common issues and solutions:

- **Screw Not Tightening:**
 - *Cause:* Stripped threads on the screw or the receiving hole/nut.
 - *Solution:* Replace the damaged screw or nut/re-tap the hole if possible. Ensure correct thread matching.
- **Screw Head Stripping:**
 - *Cause:* Using an incorrect size wrench/socket or excessive torque.
 - *Solution:* Always use the correct size tool. Apply torque gradually and avoid over-tightening.
- **Corrosion/Rust (Rare for Stainless Steel):**
 - *Cause:* Exposure to extremely harsh chemicals, prolonged contact with dissimilar metals (galvanic corrosion), or surface contamination.
 - *Solution:* Clean the affected area. For critical applications, ensure proper material selection and isolation from dissimilar metals.

6. SPECIFICATIONS

Attribute	Detail
Model Number	831642
Part Number	0831642
Brand	Hillman
Material	Stainless Steel
Size	3/8-16 x 4-Inch
Head Style	Hex
Thread Size	3/8 inch (16 threads per inch)
Thread Coverage	Partially Threaded
Item Dimensions (L x W x H)	4.6 x 3.4 x 2.3 inches (packaging)
Item Weight	3.3 Pounds (for the 25-pack)
UPC	008236143621

7. WARRANTY INFORMATION

The Hillman Group provides a warranty for its products. For specific details regarding the warranty coverage for the 831642 Hex Cap Screws, please refer to the official Hillman Group website or contact their customer support directly. The warranty description is generally available from the manufacturer.

8. SUPPORT AND CONTACT

For further assistance, technical support, or inquiries regarding The Hillman Group 831642 Hex Cap Screws, please visit the official Hillman Group website or contact their customer service department. You can find contact information and additional resources on their website.

Official Website: www.hillmangroup.com

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question