

## Hillman 811528

# Hillman Group 811528 Hot Dipped Galvanized Hex Bolt

## INSTRUCTION MANUAL

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## 1. Introduction

This manual provides essential information for the safe and effective use of the Hillman Group 811528 Hot Dipped Galvanized Hex Bolts. These bolts are designed for applications requiring strong, corrosion-resistant fastening. Please read these instructions thoroughly before installation and use to ensure proper application and longevity of the product.

## 2. Product Overview

The Hillman Group 811528 Hex Bolts are characterized by their hexagonal heads and machine threads. They are hot-dipped galvanized for enhanced corrosion resistance, making them suitable for outdoor or harsh environments. Each bolt is fully threaded and designed for use with compatible nuts and washers.



**Figure 1:** A typical Hillman Group 811528 Hot Dipped Galvanized Hex Bolt. Note the hexagonal head for wrench application and the fully threaded shaft.

### Key Features:

- **Hot Dipped Galvanized:** Provides superior corrosion resistance compared to other finishes.
- **Hexagonal Head:** Designed for tightening with a standard wrench or socket.
- **Fully Threaded:** Ensures maximum engagement with a nut or tapped hole along the entire length of the bolt.
- **Material:** Constructed from alloy steel for strength and durability.

- **Dimensions:** 1/4-inch diameter by 5-1/2-inch length.

### 3. Setup and Preparation

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Proper preparation is crucial for secure and lasting fastening. Follow these steps before installing the hex bolts:

1. **Select Correct Tools:** Ensure you have the appropriate wrench or socket for a hexagonal head. The size should match the bolt head to prevent stripping.
2. **Pre-Drill Holes:** If fastening into a material without existing threads, a pilot hole must be drilled. The hole diameter should be slightly smaller than the bolt's major diameter to allow the threads to cut into the material or to accommodate a nut.
3. **Choose Compatible Hardware:** Use nuts and washers that match the bolt's diameter (1/4-inch), thread pitch, and material grade. For galvanized bolts, it is recommended to use galvanized nuts and washers to maintain corrosion resistance.
4. **Inspect Components:** Before assembly, inspect each bolt, nut, and washer for any damage, deformities, or manufacturing defects. Do not use damaged components.

### 4. Operating Instructions (Installation)

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Follow these steps for proper installation of the hex bolts:

1. **Position Components:** Align the components to be fastened, ensuring the pre-drilled holes (if applicable) are correctly matched.
2. **Insert Bolt:** Insert the hex bolt through the aligned holes. If using a washer, place it under the bolt head.
3. **Attach Nut:** If fastening with a nut, thread it onto the bolt from the opposite side. If fastening into a tapped hole, simply thread the bolt into the hole.
4. **Tighten Fastener:** Using the appropriate wrench or socket, gradually tighten the bolt. Apply even pressure. Avoid over-tightening, which can strip threads or damage the material, and under-tightening, which can lead to loose connections.
5. **Verify Security:** Once tightened, ensure the connection is secure and stable. There should be no wobble or excessive play.

**Note:** For critical applications, consult engineering specifications for recommended torque values.

### 5. Maintenance and Storage

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While hot-dipped galvanized bolts offer excellent corrosion resistance, proper maintenance and storage can extend their lifespan and ensure continued performance.

- **Regular Inspection:** Periodically inspect installed bolts for signs of corrosion, loosening, or damage. Address any issues promptly.
- **Cleaning:** If bolts are exposed to harsh chemicals or environments, occasional cleaning with mild soap and water can help remove corrosive residues.
- **Storage:** Store unused bolts in a dry environment, away from direct moisture and corrosive substances. Keeping them in their original packaging or sealed containers is recommended to prevent premature degradation of the galvanized coating.
- **Avoid Abrasion:** Do not store bolts where they can rub against abrasive materials, which could damage the galvanized layer.

## 6. Troubleshooting Common Issues

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This section addresses common problems encountered during the use of hex bolts.

Problem	Possible Cause	Solution
Bolt will not tighten / spins freely	Stripped threads on bolt or nut; oversized pilot hole.	Replace the bolt and/or nut. Ensure pilot hole is correctly sized.
Bolt head strips during tightening	Incorrect tool size; excessive torque; worn tool.	Use the correct size wrench/socket. Apply appropriate torque. Replace worn tools.
Corrosion appears on bolt surface	Damage to galvanized coating; exposure to highly corrosive environment; incompatible metals.	Inspect for coating damage. Ensure proper storage. Consider using isolation washers if dissimilar metals are in contact.
Connection loosens over time	Insufficient tightening; vibration; material creep.	Re-tighten to recommended torque. Consider using lock washers or thread-locking compounds for high-vibration applications.

## 7. Product Specifications

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The following table details the technical specifications for the Hillman Group 811528 Hot Dipped Galvanized Hex Bolts:

Specification	Detail
Model Number	811528
Brand	Hillman
Fastener Type	Hexagon Bolt
Head Style	Hex
Material	Alloy Steel
Exterior Finish	Hot Dipped Galvanized (Zinc)
Thread Size	1/4-Inch (Nominal Diameter)
Length	5-1/2-Inch
Thread Type	UN (Unified National)
Number of Pieces	100
Item Weight (100-pack)	8.3 pounds
Product Dimensions	3.5 x 4.6 x 6.9 inches (Package)
UPC	008236411218

## 8. Support and Contact Information

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For further assistance, technical questions, or to report any issues with your Hillman Group 811528 Hot Dipped Galvanized Hex Bolts, please contact Hillman customer support.

**Manufacturer:** The Hillman Group

Please refer to the official Hillman website or product packaging for the most current contact details and warranty information.

**Note on Returns:** *This product is subject to a 30-day return policy for refund or replacement, as per Amazon's terms for products sold by Amazon.*

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