

## Hillman 190609

# Hillman Group 190609 Hex Bolt Instruction Manual

7/8-Inch X 5-Inch, 10-Pack

## 1. PRODUCT OVERVIEW

The Hillman Group 190609 Hex Bolt is a standard fastener designed for various applications requiring a strong, secure connection. Hex bolts feature a hexagonal head, allowing them to be tightened with a wrench or drill. They are typically used with a corresponding nut or in a pre-tapped hole. This specific model is partially threaded, meaning the threads do not extend the full length of the bolt shank.



Figure 1: Hillman Group 190609 Hex Bolts (10-Pack). This image displays the product packaging and the hex bolts, highlighting their design and quantity.

## 2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment (PPE), such as safety glasses and gloves, when handling fasteners and using tools.
- Ensure that the work area is well-lit and free from obstructions.
- Use the correct size and type of wrench or socket for the hex bolt head to prevent slippage and damage to the fastener or injury.
- Do not overtighten bolts, as this can strip threads, damage materials, or cause the bolt to break. Refer to specific torque specifications if available for your application.
- Keep fasteners out of reach of children.

### 3. INSTALLATION INSTRUCTIONS

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Proper installation is crucial for the secure and reliable performance of hex bolts. Follow these steps for effective fastening:

1. **Select Compatible Components:** Ensure that the nut and washers used with the hex bolt are of the same material and finish to prevent galvanic corrosion and ensure proper fit. The thread size of the nut must match the bolt (7/8-inch in this case).
2. **Prepare the Connection:** Align the components to be joined, ensuring that the holes are properly sized for the 7/8-inch diameter bolt.
3. **Insert the Bolt:** Pass the hex bolt through the aligned holes. If using a nut, place a washer under the bolt head and another under the nut for better load distribution and to protect the material surface.
4. **Attach the Nut:** Thread the nut onto the bolt. Hand-tighten initially to ensure proper thread engagement.
5. **Tighten the Fastener:** Using an appropriate wrench or socket, tighten the nut while holding the bolt head stationary (or vice versa). Tighten until snug, then apply additional torque as required by your application's specifications. Avoid overtightening.

For applications requiring specific torque values, consult engineering guidelines or equipment manuals.

### 4. MAINTENANCE

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Hex bolts generally require minimal maintenance once installed correctly. However, periodic inspection can help ensure long-term reliability:

- **Visual Inspection:** Regularly check installed bolts for signs of loosening, corrosion, or damage.
- **Retightening:** In applications subject to vibration or significant temperature changes, bolts may loosen over time. Periodically check and retighten if necessary, adhering to original torque specifications.
- **Corrosion Prevention:** While these bolts have a heat-treated exterior finish, exposure to harsh environments may still lead to corrosion. If corrosion is observed, consider replacement or applying appropriate protective coatings if suitable for the application.

### 5. TROUBLESHOOTING

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Encountering issues during installation or use of hex bolts can often be resolved with simple checks:

- **Bolt Not Threading:**
  - Ensure the nut's thread size matches the bolt (7/8-inch).
  - Check for damaged threads on either the bolt or the nut.
  - Verify that the bolt is aligned straight when attempting to thread.
- **Bolt Loosening:**
  - Ensure adequate torque was applied during installation.
  - Consider using a locking washer or thread-locking compound for applications with high vibration.
  - Check for material compression or relaxation that might reduce clamping force.
- **Stripped Threads:**

- This usually occurs from overtightening or cross-threading. The bolt or nut (or both) will need to be replaced.
- Always ensure proper alignment before applying significant torque.

## 6. SPECIFICATIONS

Detailed specifications for the Hillman Group 190609 Hex Bolt:

Feature	Detail
Model Number	190609
Material	Alloy Steel
Thread Size (Diameter)	7/8-Inch
Length	5-Inch
Exterior Finish	Heat-Treated
Head Style	Hex
Fastener Type	Hexagon Bolt
Thread Type	UN
Thread Style	Right Hand
Grade Rating	Grade 2
Drive System	External Hex
Number of Pieces	10
Thread Coverage	Partially Threaded
Item Dimensions (L x W x H)	6.87 x 4.43 x 3.31 inches (packaging)
UPC	008236076387

*Note: The product title specifies 7/8-Inch diameter and 5-Inch length. Some data fields may refer to packaging dimensions or other characteristics.*

## 7. WARRANTY AND SUPPORT

For specific warranty information regarding The Hillman Group 190609 Hex Bolts, please refer to the original purchase documentation or contact the retailer where the product was acquired. General product information and support may also be available directly from the manufacturer.

You can visit the official Hillman store for more products and information: [Hillman Store on Amazon](#).