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› Hillman Group 190105 Hex Bolt Instruction Manual

Hillman 190105

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Model: 190105

PRODUCT OVERVIEW

The Hillman Group 190105 Hex Bolt is a standard fastener designed for various applications. These bolts feature a hexagonal head, allowing them to be tightened with a wrench or drill, and machine threads for secure fastening with a nut or into a tapped hole. They are typically partially threaded and made from alloy steel with a zinc finish, providing durability and corrosion resistance.

This product includes 100 hex bolts, each measuring 5/16-inch in diameter and 2-1/4-inches in length, suitable for a wide range of construction, repair, and assembly tasks.



Figure 1: A package of Hillman Group 190105 Hex Bolts. These bolts are characterized by their hexagonal heads and partial threading.

INSTALLATION AND USAGE

Hex bolts are versatile fasteners used to join two or more components. Proper installation ensures a secure and lasting connection.

Required Tools:

- Wrench (appropriate size for 5/16-inch hex head)
- Socket wrench or power drill with hex bit (optional)
- Nut (if not threading into a tapped hole)
- Washers (flat and/or lock washers, recommended for optimal performance)

Installation Steps:

- Preparation:** Ensure the components to be joined have pre-drilled holes of the correct diameter to accommodate the 5/16-inch bolt. The hole should be slightly larger than the bolt's shank diameter but smaller than the thread diameter of the nut.
- Placement:** Insert the hex bolt through the aligned holes of the components.
- Washer Application (Optional but Recommended):** Place a flat washer under the bolt head and/or under the nut. A lock washer can be added under the nut for increased vibration resistance. Ensure nuts and washers are of the same material and finish as the bolt for compatibility and to prevent galvanic corrosion.
- Nut Fastening:** If using a nut, thread it onto the bolt from the opposite side.
- Tightening:** Use a wrench or socket to tighten the bolt. Apply appropriate torque to secure the connection without over-tightening, which can strip threads or damage components. The hexagonal head allows for a firm grip during tightening.

MAINTENANCE

Proper maintenance ensures the longevity and performance of hex bolts.

- Storage:** Store unused bolts in a dry environment to prevent corrosion. Keep them organized by size and type.
- Inspection:** Periodically inspect installed bolts for signs of loosening, corrosion, or damage. Re-tighten if necessary.
- Cleaning:** If bolts become dirty, clean them with a mild cleaner and dry thoroughly. Avoid harsh chemicals that may damage the zinc finish.

TROUBLESHOOTING

Common issues and their solutions when working with hex bolts.

- Bolt Not Threading:** Ensure the nut or tapped hole matches the bolt's thread type (UNC, coarse) and diameter (5/16-inch). Check for cross-threading; if so, remove and re-align carefully.
- Bolt Loosening Over Time:** This can be caused by vibration or improper torque. Consider using a lock washer or thread-locking compound for applications subject to movement. Ensure proper tightening during installation.
- Corrosion:** While zinc-plated, prolonged exposure to moisture or harsh chemicals can cause corrosion. Replace corroded bolts to maintain structural integrity. For outdoor or marine applications, consider stainless steel alternatives.
- Stripped Head:** If the hex head rounds off during tightening, the wrench or socket may be the wrong size or worn. Use the correct size tool and apply steady pressure.

SPECIFICATIONS

Attribute	Value
Model Number	190105
Brand	Hillman
Material	Alloy Steel
Exterior Finish	Zinc Plated
Head Style	Hex
Fastener Type	Hexagon Bolt

Attribute	Value
Thread Size	5/16-inch
Length	2-1/4 inches
Thread Style	Right Hand, Coarse, UNC
Thread Coverage	Partially Threaded
Grade Rating	Grade 2
Number of Pieces	100
Item Dimensions (L x W x H)	5.3 x 4.3 x 3.3 inches (packaging)
UPC	008236074635

WARRANTY AND SUPPORT

For specific warranty information or technical support regarding Hillman Group products, please refer to the official Hillman Group website or contact their customer service directly. Product returns are subject to the retailer's return policy, which for Amazon is typically 30 days for a refund or replacement.

Manufacturer: The Hillman Group

Website: [Visit the Hillman Store on Amazon](#)

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