

STANLEY N179-176

STANLEY National N179-176 5/16" x 5" Carriage Bolt Instruction Manual

Model: N179-176

PRODUCT OVERVIEW

The STANLEY National N179-176 is a 5/16" x 5" carriage bolt, manufactured from durable steel and finished with a zinc plating and satin black paint. This fastener is specifically designed for use with National's 858 Heavy-Duty Ornamental Strap Hinge and 859 Heavy Duty Ornamental T-Hinge, providing a secure and aesthetically matching connection.

- Manufactured from high-quality steel for strength and durability.
- Features a zinc-plated finish with a satin black paint for corrosion resistance and appearance.
- Optimized for secure attachment with National's 858 Heavy-Duty Ornamental Strap Hinge and 859 Heavy Duty Ornamental T-Hinge.

INSTALLATION

Carriage bolts are designed for fastening wood to wood, or wood to metal, where the square neck under the domed head prevents the bolt from turning once it is seated. The N179-176 bolt is intended for specific hinge applications.

1. **Prepare the Mounting Surface:** Ensure the surfaces to be joined are clean, flat, and properly aligned. For wood applications, pre-drill holes slightly larger than the bolt's shank diameter but smaller than the head to allow the square neck to seat firmly.
2. **Insert the Bolt:** Pass the carriage bolt through the pre-drilled holes from the side where the domed head is desired. Gently tap the head with a mallet if necessary to fully seat the square neck into the material, preventing rotation during tightening.
3. **Attach Hinge (if applicable):** If using with National's 858 Heavy-Duty Ornamental Strap Hinge or 859 Heavy Duty Ornamental T-Hinge, align the hinge holes with the bolt and pass the bolt through.
4. **Secure with Nut:** Thread a compatible nut (not included) onto the exposed threaded end of the carriage bolt. Use a washer under the nut to distribute the load and prevent damage to the material.
5. **Tighten:** Hand-tighten the nut initially, then use a wrench to tighten securely. Avoid over-tightening, which can strip threads or damage the material. The square neck should prevent the bolt from spinning.



Image: STANLEY National N179-176 5/16" x 5" Black Carriage Bolt. This image displays the bolt's domed head, square neck, and threaded shank, highlighting its black finish.

USAGE

The N179-176 carriage bolt is designed for applications requiring a strong, secure, and tamper-resistant fastening. Its smooth, domed head provides a finished appearance and reduces the risk of snagging or injury, making it suitable for visible installations. The square neck ensures the bolt remains stationary during tightening, which is particularly useful when access to the bolt head is limited.

Always ensure the bolt length is appropriate for the materials being joined, allowing sufficient thread engagement for the nut and washer.

MAINTENANCE

Carriage bolts generally require minimal maintenance. Regular inspection is recommended to ensure the integrity of the fastening.

- **Visual Inspection:** Periodically check the bolt and surrounding materials for any signs of loosening, corrosion, or damage.
- **Tightness Check:** If accessible, verify that the nut remains securely tightened. Re-tighten if any looseness is detected, but do not over-tighten.
- **Corrosion:** While the zinc plating and satin black finish offer corrosion resistance, extreme conditions may lead to wear. If rust appears, consider cleaning and applying a rust-inhibiting coating if the application allows.

TROUBLESHOOTING

Most issues with carriage bolts relate to improper installation or selection.

- **Bolt Spins During Tightening:** This indicates the square neck is not properly seated. Remove the nut, ensure the pre-drilled hole is correctly sized, and gently tap the bolt head to fully embed the square neck into the material before re-tightening.
- **Bolt Not Long Enough:** Ensure the bolt length is sufficient to pass through all materials and allow for adequate thread engagement with the nut and washer. If not, a longer bolt is required.
- **Threads Stripped:** Over-tightening can strip the threads on the bolt or nut. Replace both the bolt and nut if threads are damaged.
- **Corrosion:** If corrosion is excessive, the bolt's structural integrity may be compromised. Replace corroded bolts with new ones to maintain safety and strength.

SPECIFICATIONS

Attribute	Detail
Model Number	N179-176
Brand	STANLEY National
Size	5/16" x 5"
Item Diameter	0.31 Inches
Thread Size	5/16
Fastener Type	Carriage Bolt
Head Type	Carriage (Domed)
Head Style	Hex (referring to the nut, but the bolt head is domed)
Material	Alloy Steel, Zinc
Metal Type	Zinc-Plated Alloy Steel
Exterior Finish	Zinc Plated with Satin Black Painted Finish
Color	Black
Manufacturer Grade	Grade 8 8
Item Hardness	Grade 8
Thread Type	UNC (Unified National Coarse)
Thread Style	Right Hand
Measurement System	Inch
Item Weight	6 ounces
Item Package Quantity	1
UPC	038613179172
Manufacturer	Stanley National

WARRANTY INFORMATION

Specific warranty information for the STANLEY National N179-176 carriage bolt is not provided in the available product data. For details regarding product warranties, please refer to the official STANLEY National website or contact their customer support directly.

CUSTOMER SUPPORT

Customer support contact details for the STANLEY National N179-176 carriage bolt are not provided in the available product data. For assistance, please visit the official STANLEY National website or consult the retailer from whom the

product was purchased.