

## Emtek 96515

# Emtek 96515 4-1/2" x 4-1/2" Square Barrel Heavy Duty Hinges User Manual

Model: 96515

## 1. INTRODUCTION

This manual provides detailed instructions for the proper installation, maintenance, and care of your Emtek 96515 4-1/2" x 4-1/2" Square Barrel Heavy Duty Hinges. Please read all instructions carefully before beginning installation to ensure safe and correct operation. Retain this manual for future reference.

## 2. PRODUCT OVERVIEW

The Emtek 96515 hinges are designed for heavy-duty applications, providing robust support and smooth operation for doors. Constructed from solid brass, these hinges offer durability and a refined aesthetic. They feature square corners and a square barrel design, suitable for various architectural styles.



**Figure 1:** Emtek 96515 4-1/2" x 4-1/2" Square Barrel Heavy Duty Hinge. This image displays a single hinge with its two leaves, barrel, and eight screw holes. The finish is satin nickel, and the Emtek logo is visible on one leaf.



**Figure 2:** Close-up view of the satin nickel finish on an Emtex hinge. This image highlights the brushed texture and subtle sheen of the metal surface, demonstrating the quality of the material and finish.

### 3. PACKAGE CONTENTS

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Verify that all components are present before beginning installation:

- Emtex 96515 4-1/2" x 4-1/2" Square Barrel Heavy Duty Hinges (Sold as a pair)
- Matching mounting screws

### 4. SAFETY INFORMATION

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Always exercise caution when working with tools and heavy objects. Wear appropriate personal protective equipment, such as safety glasses, during installation. Ensure the door is properly supported during hinge replacement or installation to prevent injury or damage.

### 5. SETUP AND INSTALLATION

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#### Tools Required:

- Pencil
- Measuring tape
- Screwdriver (manual or power drill with appropriate bit)
- Chisel (if mortising is required)
- Hammer (if mortising is required)

#### Installation Steps:

1. **Prepare the Door and Frame:** If replacing existing hinges, remove the old hinges. If installing on a new door, mark the hinge locations on both the door and the door frame. Standard hinge placement is typically 7 inches from the top and 11 inches from the bottom of the door, with a third hinge centered between them for 80-inch doors.
2. **Mortise (if necessary):** These hinges are designed for mortise installation. If your door and frame are not pre-mortised, carefully trace the outline of the hinge leaves onto the marked locations. Use a chisel and hammer to create a recess (mortise) that is deep enough for the hinge leaf to sit flush with the surface of the door and frame.
3. **Attach Hinges to Door:** Place one hinge leaf into its mortise on the door. Ensure it is flush and properly aligned. Secure it with the provided mounting screws. Repeat for all hinges on the door.

- 4. **Attach Hinges to Frame:** Position the door within the door frame. Use shims or blocks to support the door at the correct height and ensure proper gaps around the door. Align the remaining hinge leaves with their respective mortises on the door frame.
- 5. **Secure Door to Frame:** Once aligned, secure the hinge leaves to the door frame using the provided mounting screws. Start with one screw per hinge to allow for minor adjustments, then install the remaining screws.
- 6. **Test Operation:** Open and close the door several times to check for smooth operation and proper alignment. Adjust screws as needed to achieve optimal performance.

6. MAINTENANCE

Emtek solid brass hinges are designed for long-lasting performance with minimal maintenance. To ensure their longevity and appearance:

- **Cleaning:** Clean the hinges periodically with a soft, damp cloth. Avoid abrasive cleaners or harsh chemicals, as these can damage the finish.
- **Lubrication:** If the hinges begin to squeak or feel stiff, apply a small amount of silicone-based lubricant to the hinge pin. Do not use oil-based lubricants, which can attract dust and grime.
- **Tighten Screws:** Periodically check and tighten all mounting screws to ensure the hinges remain securely fastened to the door and frame.

7. TROUBLESHOOTING

**Issue: Door squeaks when opening/closing.**

- **Solution:** Apply a silicone-based lubricant to the hinge pins. Open and close the door several times to distribute the lubricant.

**Issue: Door sags or does not close properly.**

- **Solution:** Check all hinge screws on both the door and the frame. Tighten any loose screws. If the problem persists, the door or frame may require adjustment by a professional.

**Issue: Hinge finish appears dull or discolored.**

- **Solution:** Clean the hinges with a soft, damp cloth. For satin nickel finishes, a mild, non-abrasive cleaner specifically designed for metal finishes may be used sparingly, followed by thorough drying.

8. SPECIFICATIONS

Feature	Detail
Model Number	96515
Dimensions	4-1/2" x 4-1/2"
Style	Square Barrel, Heavy Duty
Corners	Square
Material	Solid Brass, Nickel

Finish (as reviewed)	Satin Nickel (US15)
Mounting Type	Door Mount
Item Weight	1 pound (per pair)
Number of Pieces	2 (per pair)
Manufacturer	Emtek Products Inc
UPC	645685716152

## 9. WARRANTY AND SUPPORT

Emtek products are manufactured to high standards and are backed by a limited warranty. For specific warranty details, product support, or to inquire about replacement parts, please contact Emtek customer service directly. Contact information can typically be found on the official Emtek website or through your authorized dealer.

For further assistance, please visit the [Emtek official website](#).