

Lawrence LH168

Lawrence Hardware LH168 Commercial Door Hinges

Instruction Manual

Model: LH168

1. INTRODUCTION

Thank you for choosing Lawrence Hardware Commercial Door Hinges. These heavy-duty butt hinges are designed for durability and smooth operation in commercial and residential applications. Featuring concealed ball bearings, they ensure continuous, reliable movement for standard to heavy door weights. This manual provides essential information for the proper installation, operation, and maintenance of your hinges.



Theft Deterrent - "Non Removable Pin" Hinges

MODEL	PRODUCT NAME	FINISH	SIZE
LH168BB	NRP HINGE	US10B	4.5" x 4.5" (114mm x 114mm)

Image 1.1: A single Lawrence Hardware LH168 commercial door hinge in Oil Rubbed Bronze finish, showcasing its robust construction and ball bearing design.

2. PRODUCT COMPONENTS

Each package of Lawrence Hardware LH168 Commercial Door Hinges includes the following components:

- **Three (3)** solid steel hinges
- **Twenty-four (24)** machine screws for metal door frame installations
- **Twenty-four (24)** wood screws for wooden door frame installations



GWZQ.R38743 Door Hinges

[See General Information for Door Hinges](#)

LAWRENCE HARDWARE INC

R38743

Full mortise, butt hinges, LH1379CB, LH1391CB, LH179BB, LH191BB, LH603BB for use on swinging-type fire doors rated up to and including 3 hr.

LH1368CB, LH1399CB, LH168BB, LH199BB, LH620BB for use on swinging-type fire doors rated up to and including 3 hr on single doors up to 48 in. in width by 120 in. in height or door pairs up to 96 in. in width by 120 in. in height.

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UL Certification

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Image 2.1: A package containing three Lawrence Hardware LH168 hinges, along with the necessary wood and machine screws for installation.

3. INSTALLATION INSTRUCTIONS

Proper installation is crucial for the optimal performance and longevity of your hinges. These full mortise, steel butt hinges are designed for both wood and hollow metal doors.

3.1. Tools Required

- Screwdriver (manual or power drill with appropriate bit)
- Measuring tape or ruler
- Pencil
- Chisel and mallet (for wood door mortising, if not pre-mortised)

3.2. Installation Steps

1. **Prepare Door and Frame:** Ensure the door and frame are properly prepared with mortises (recesses) that match the

- dimensions of the hinge leaves. The hinges are 4.5" x 4.5" (114mm x 114mm) with a thickness of 0.134" (3.4mm).
- Position Hinges:** Place the hinge leaves into the prepared mortises on both the door and the door frame. Ensure the hinge pin is oriented correctly for the door swing.
 - Secure Hinges to Door:** Using the appropriate wood screws (for wooden doors) or machine screws (for metal doors), attach one leaf of each hinge securely to the edge of the door. Do not overtighten.
 - Mount Door to Frame:** Carefully align the door with the door frame, ensuring the hinge leaves on the door align with the hinge leaves on the frame.
 - Secure Hinges to Frame:** Insert the remaining screws (wood or machine, as appropriate) through the hinge leaves into the door frame. Tighten all screws firmly but avoid stripping the screw heads or threads.
 - Check Operation:** Open and close the door several times to ensure smooth operation and proper alignment. Adjust screws if necessary to achieve optimal performance.



Image 3.1: Technical diagram illustrating the LH168 hinge, including its dimensions, finish code (US10B), and the location of the set screw for the non-removable pin feature.

4. OPERATION

Lawrence Hardware LH168 hinges are designed for continuous smooth movement. The concealed ball bearings facilitate effortless pivoting, making them suitable for high-traffic areas and heavy doors. Once installed correctly, the hinges should operate silently and without resistance, providing reliable support for the door.

5. MAINTENANCE

These hinges are engineered for minimal maintenance. The ball bearings are designed to withstand environmental elements and dust, ensuring continuous smooth pivoting without the need for regular lubrication. Periodically inspect the hinges and screws for any signs of loosening or wear. If any screws appear loose, gently tighten them to maintain optimal performance.

6. TROUBLESHOOTING

While Lawrence Hardware hinges are built for reliability, minor issues can sometimes occur. Here are common problems and their solutions:

- Squeaking or Grinding:** This is uncommon due to the ball bearings. If it occurs, check for debris around the hinge pin. Ensure all screws are tight. If the issue persists, the hinge may need replacement.
- Door Catching or Sagging:** This usually indicates loose screws or improper installation. Check and tighten all screws on both the door and frame. Ensure the door is properly aligned within the frame. If the door is excessively heavy for the number of hinges used, consider adding an additional hinge.
- Hinge Pin Movement:** The LH168 features a non-removable pin design for security. If the pin appears loose, ensure the set screw (as indicated in Image 3.1) is properly tightened.

7. SPECIFICATIONS

Model Number	LH168
Material	Solid Steel with Ball Bearings

Finish	Oil Rubbed Bronze (US10B)
Dimensions (Length x Width)	4.5" x 4.5" (114mm x 114mm)
Thickness	0.134" (3.4mm)
Hole Count	24 per hinge
Mounting Type	Full Mortise, Door Mount
Certification	ANSI/BMHA A156.1 and A156.7

8. CERTIFICATIONS

These hinges meet rigorous industry standards for quality and performance.



Image 8.1: UL Online Certifications Directory listing for Door Hinges, GWZQ.R38743, confirming compliance with relevant safety and performance standards.

9. WARRANTY INFORMATION

Specific warranty details are not provided in the product information. For warranty inquiries, please contact Lawrence Hardware customer support directly.

10. CUSTOMER SUPPORT

For further assistance, technical support, or questions regarding your Lawrence Hardware LH168 Commercial Door Hinges, please contact Homebuilders Hardware, the manufacturer's representative.

Phone: 1-888-737-6515

Email: sales@homebuildershardware.com

Website: [Lawrence Hardware Store on Amazon](#)

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