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> CRL 4-1/2 x 4-1/2 Inch Heavy Duty Spring Hinges S4510B Instruction Manual

CRL S4510B

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Model: S4510B | Brand: CRL

PRODUCT OVERVIEW

The CRL Heavy Duty Spring Hinges, model S4510B, are designed for reliable door operation. These hinges feature square corners and are suitable for various door applications. Each hinge is packaged individually and includes the necessary wood screws and machine screws for installation.



Image: A single CRL 4-1/2 x 4-1/2 inch heavy-duty spring hinge, shown in an antique oil rubbed bronze finish. The hinge is open, revealing the spring mechanism and screw holes on both leaves. UL listed markings are visible on one leaf.

INCLUDED COMPONENTS

- One (1) CRL 4-1/2 x 4-1/2 Inch Heavy Duty Spring Hinge

- Wood Screws (for wood door frames)
- Machine Screws (for metal door frames)

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your spring hinges. Ensure you have the correct tools before beginning.

Tools Required:

- Pencil
- Measuring Tape
- Drill with appropriate drill bits
- Screwdriver (manual or power)
- Chisel (if mortising is required)

Installation Steps:

1. **Prepare the Door and Frame:** Ensure the door and frame surfaces are clean and free of debris. If replacing existing hinges, remove the old hinges and clean the area.
2. **Position the Hinges:** Mark the hinge locations on both the door and the door frame. Typically, hinges are placed 7 inches from the top and 11 inches from the bottom of the door. For a third hinge, place it in the center.
3. **Mortise (if necessary):** If your door or frame requires mortising (recessing the hinge), carefully trace the hinge outline and use a chisel to create a shallow recess so the hinge sits flush.
4. **Drill Pilot Holes:** Using an appropriate drill bit, drill pilot holes for the screws at the marked locations. This prevents wood splitting and ensures secure fastening.
5. **Attach Hinges to Door:** Secure one leaf of each hinge to the edge of the door using the provided screws (wood screws for wood doors, machine screws for metal doors). Do not overtighten.
6. **Mount Door to Frame:** Position the door in the frame and align the remaining hinge leaves with the pilot holes on the door frame. Secure the hinges to the frame using the appropriate screws.
7. **Test Door Operation:** Open and close the door several times to ensure smooth operation and proper alignment.

OPERATING INSTRUCTIONS

These heavy-duty spring hinges are designed to automatically close the door. The tension of the spring can be adjusted to control the closing speed and force.

Adjusting Spring Tension:

1. **Locate Adjustment Pin Holes:** On the barrel of the spring hinge, you will find a series of small holes.
2. **Insert Tension Rod:** Use the tension rod (often included with the hinge, though not explicitly listed here, it's standard for spring hinges) to rotate the spring barrel.
3. **Increase Tension:** Rotate the barrel in the direction that increases spring tension.
4. **Insert Tension Pin:** Once the desired tension is achieved, insert the tension pin into one of the adjustment holes to lock the spring in place.
5. **Test and Adjust:** Test the door's closing action. If it closes too fast or too slow, repeat the adjustment process until satisfied.

Caution: Do not over-tension the spring, as this can damage the hinge or door. Always ensure the tension pin is securely seated.

MAINTENANCE

Regular maintenance ensures the smooth operation and extends the lifespan of your CRL spring hinges.

- **Cleaning:** Periodically wipe down the hinges with a soft, damp cloth to remove dust and grime. Avoid abrasive cleaners that could damage the finish.
- **Lubrication:** Apply a small amount of silicone-based lubricant to the hinge pin and spring mechanism annually, or if you notice squeaking or stiffness.
- **Check Screws:** Periodically check all mounting screws for tightness. Tighten any loose screws to prevent hinge sag or misalignment.
- **Inspect for Wear:** Inspect the hinges for any signs of wear, damage, or corrosion. Replace hinges if significant wear or damage is observed.

TROUBLESHOOTING

Door Not Closing Properly:

- **Insufficient Spring Tension:** Adjust the spring tension as described in the "Operating Instructions" section.
- **Loose Screws:** Check and tighten all mounting screws on both the door and frame.
- **Hinge Binding:** Ensure hinges are properly aligned and not binding. Lubricate if necessary.
- **Obstruction:** Check for any physical obstructions preventing the door from closing fully.

Squeaking Hinges:

- **Lack of Lubrication:** Apply a silicone-based lubricant to the hinge pin and spring mechanism.
- **Dirt/Debris:** Clean the hinges thoroughly to remove any accumulated dirt.

Hinge Appears Damaged:

- If a hinge is bent, cracked, or severely corroded, it should be replaced immediately to ensure safety and proper door function.

SPECIFICATIONS

Feature	Detail
Model Number	S4510B
Brand	CRL (CR Laurence)
Hinge Dimensions	4-1/2 inches x 4-1/2 inches
Material	Solid
Finish Type	Antique Oil Rubbed Bronze
Mounting Type	Door Mount
Item Weight	1 Pound

UPC

060829465572

WARRANTY INFORMATION

Specific warranty details for CRL products may vary. Please refer to the official CRL website or contact their customer support for the most current and detailed warranty information regarding the S4510B Heavy Duty Spring Hinges.

Note: Keep your purchase receipt as proof of purchase for any warranty claims.

CUSTOMER SUPPORT

For technical assistance, installation questions, or to report any issues with your CRL Heavy Duty Spring Hinges, please contact CRL customer support:

- **Manufacturer:** CR Laurence
- **Website:** www.crl.com
- **Contact Information:** Please visit the official CRL website for up-to-date contact numbers, email addresses, or support forms.