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Corbin Russwin DC6210 689 M54

Corbin Russwin DC6000 Series Adjustable Door Closer

Model: DC6210 689 M54

INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the Corbin Russwin DC6000 Series adjustable door closer. This series is engineered for high-use openings and environments requiring ADA compliance, such as schools, office buildings, healthcare facilities, and retail complexes. It also meets UL and UL10C positive pressure requirements for fire door openings.

SAFETY INFORMATION

- Always wear appropriate personal protective equipment (PPE) during installation and maintenance.
- Ensure the door is properly supported and secured before beginning any work on the closer.
- Exercise caution when adjusting the closer, as spring tension can be significant.
- Refer to local building codes and fire safety regulations for specific installation requirements.

COMPONENTS OVERVIEW

The Corbin Russwin DC6000 Series door closer typically includes the following main components:

- Closer Body (Cast Iron)
- Main Arm Assembly (Heavy-duty forged, powder painted)
- Parallel Arm Bracket
- Mounting Screws (Self-drilling)
- Sex Nuts and Bolts (for through-bolt applications)
- Adjustment Valves (Captured)
- Spring Adjustment Mechanism



This image displays the Corbin Russwin DC6000 Series door closer, featuring a silver-colored cast iron body and a parallel arm assembly. The main body of the closer is rectangular, and the arm extends from one end, designed for parallel arm mounting applications.

SETUP AND INSTALLATION

The DC6000 Series door closer is designed for screw-in installation and supports parallel arm mounting. Detailed templates and instructions are provided with the product packaging for specific door and frame types. Professional installation is recommended to ensure proper function and compliance with safety standards.

Key Installation Steps:

- Determine Mounting Location:** Identify the correct mounting position on the door or frame based on the provided template for parallel arm installation.
- Prepare Mounting Surface:** Drill pilot holes as indicated by the template. For through-bolt applications, use the provided sex nuts and bolts for secure fastening.
- Mount Closer Body:** Secure the closer body to the door or frame using the self-drilling screws or sex nuts and bolts.
- Attach Arm Assembly:** Connect the main arm to the closer spindle and the parallel arm bracket to the door frame. Ensure all connections are tight and secure.
- Initial Adjustments:** Perform initial spring power and closing speed adjustments as described in the 'Operating Instructions' section.
- Retrofit Plates:** If replacing an existing closer, utilize retrofit plates as necessary to match previous mounting hole patterns.

OPERATING INSTRUCTIONS AND ADJUSTMENTS

The DC6000 Series door closer features adjustable closing speed and latching speed, as well as a spring adjustment mechanism to control closing force.

Adjusting Closing Speed:

- Locate the two captured adjustment valves on the closer body. These typically control the main closing sweep and the latching speed.
- Turn the valve clockwise to decrease speed (slower closing) and counter-clockwise to increase speed (faster closing). Make small adjustments (quarter turns) and test the door's operation after each adjustment.
- The first valve usually controls the main sweep from the open position to approximately 15 degrees from closed. The second valve controls the latching speed for the final 15 degrees of closing.

Adjusting Spring Power:

- The spring adjustment mechanism allows for varying the closing force, which is crucial for ADA compliance

and door size/weight.

- Use the appropriate tool (e.g., an Allen wrench) to turn the spring adjustment screw. Turning clockwise increases closing force; counter-clockwise decreases it.
- Ensure the door closes reliably and smoothly without excessive force. For ADA compliance, the opening force should not exceed specified limits.

MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your Corbin Russwin DC6000 Series door closer.

- **Periodic Inspection:** Annually inspect all mounting screws and arm connections for tightness. Tighten any loose fasteners.
- **Check for Leaks:** Inspect the closer body for any signs of fluid leakage. The robust spring tube design and double O-rings are designed for longevity, but any leakage indicates a need for professional service or replacement.
- **Cleanliness:** Keep the closer body and arm assembly clean from dust and debris. Use a soft, damp cloth for cleaning. Avoid abrasive cleaners.
- **Functionality Test:** Periodically test the door's closing and latching action. Readjust speeds or spring power if the door is not operating as desired.

TROUBLESHOOTING

Refer to the following common issues and solutions for the DC6000 Series door closer:

Problem	Possible Cause	Solution
Door closes too fast/slow	Improper adjustment of closing/latching speed valves.	Adjust the appropriate speed valves (see 'Operating Instructions').
Door does not close completely or latches weakly	Insufficient spring power or latching speed.	Increase spring power or latching speed (see 'Operating Instructions'). Check for obstructions or door/frame misalignment.
Door is difficult to open	Excessive spring power.	Decrease spring power (see 'Operating Instructions'). Ensure compliance with ADA opening force requirements.
Oil leakage from closer body	Internal seal failure or damage.	Contact a qualified technician for service or consider replacement.

SPECIFICATIONS

- **Model:** DC6210 689 M54
- **Material:** Cast Iron
- **Color:** Silver
- **Exterior Finish:** Aluminum (Painted)
- **Dimensions:** 13 x 7 x 3 inches

- **Item Weight:** Approximately 10.45 pounds
- **Installation Type:** Screw-In
- **Arm Type:** Heavy-duty forged parallel arm
- **Adjustments:** Spring-adjust, captured speed valves
- **Compliance:** ADA, UL, UL10C (for fire door openings)
- **Recommended Uses:** Commercial buildings, fire-rated doors

WARRANTY INFORMATION

For specific warranty terms and conditions applicable to the Corbin Russwin DC6000 Series door closer, please refer to the documentation provided with your purchase or contact Corbin Russwin directly. Warranty coverage typically addresses manufacturing defects under normal use.

SUPPORT

If you require technical assistance, replacement parts, or further information regarding the Corbin Russwin DC6000 Series door closer, please contact Corbin Russwin customer support or your authorized dealer. Contact details can typically be found on the manufacturer's official website or in the product packaging.