Global Door Controls TC612-AL

Commercial Full Cover Door Closer Instruction Manual

Model: TC612-AL | **Brand:** Global Door Controls

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Global Door Controls Commercial Full Cover Door Closer, Model TC612-AL. This product is designed for commercial applications, offering adjustable spring tension from sizes 2 to 6, ensuring reliable and controlled door closure for various door types and weights.



Image 1.1: The complete Global Door Controls Commercial Full Cover Door Closer assembly, including the main body, arm, and mounting plate.

2. Safety Information

Please read and understand all instructions before beginning installation or operation. Failure to follow these instructions may result in injury or damage to the product or property.

- Always wear appropriate personal protective equipment, including safety glasses and gloves, during installation.
- Ensure the door is securely supported during installation to prevent accidental movement.
- Be aware of pinch points when installing and adjusting the door closer.
- Do not attempt to disassemble the door closer body, as it contains pressurized components.
- If you are unsure about any part of the installation process, consult a qualified professional.

3. Package Contents

Verify that all components are present before beginning installation:

- 1 x Door Closer Unit (Main Body)
- 1 x Adjustable Arm Assembly
- 1 x Mounting Plate
- Wood and Machine Screws (various sizes)
- 1 x Hex Key (Allen Wrench) for adjustments



Image 3.1: Included wood and machine screws, washers, and hex key for installation and adjustment.

4. Setup and Installation

The Global Door Controls TC612-AL door closer is non-handed and reversible, allowing for flexible installation. It supports a maximum door weight of 258 pounds and a maximum door size of 60 inches for interior applications and 48 inches for exterior applications. It comes tri-packed standard, supporting regular pull side, top jamb, and parallel jamb installations.

4.1. Choosing Installation Type

Refer to the provided template (not included in this manual, typically with product packaging) for specific drilling patterns for regular pull side, top jamb, or parallel arm mounting. Select the appropriate installation method based on your door and frame configuration.

4.2. Mounting the Closer Body

1. Carefully mark the drilling points on the door or frame according to the chosen installation template.
2. Drill pilot holes at the marked locations. Use appropriate drill bits for wood or metal applications.
3. Secure the door closer body to the door or frame using the provided wood or machine screws. Ensure it is level and firmly attached.

4.3. Attaching the Arm Assembly

1. Attach the main arm to the closer spindle.
2. Connect the forearm to the main arm and the mounting plate, ensuring all connections are secure.
3. Adjust the length of the forearm as necessary to achieve the correct angle for your installation type.



Image 4.1: Side view of the door closer, showing the main body and arm assembly.

5. Operation and Adjustment

The TC612-AL door closer features adjustable spring tension (sizes 2-6) and hydraulic valves to control closing

speed, latching speed, and backcheck. Adjustments should be made incrementally.

5.1. Spring Power Adjustment

The spring power determines the closing force. To adjust, use the hex key on the spring adjustment nut located at the end of the closer body. Turning clockwise increases closing force (for heavier doors or windy conditions), and counter-clockwise decreases it.

5.2. Closing Speed Adjustment (Valve 1)

This valve controls the speed of the door from its fully open position until approximately 15 degrees from the closed position. Turn the screw clockwise to slow down the closing speed, and counter-clockwise to speed it up.

5.3. Latching Speed Adjustment (Valve 2)

This valve controls the speed of the door for the final 15 degrees of closing. This is crucial for ensuring the door latches properly without slamming. Turn the screw clockwise to slow down the latching speed, and counter-clockwise to speed it up.

5.4. Backcheck Adjustment (Valve BC)

The built-in backcheck feature provides a hydraulic cushion to prevent the door from being violently thrown open. This valve controls the intensity of this cushioning effect. Adjust as needed to prevent damage to the door or frame from forceful opening.



Image 5.1: Top view of the door closer, highlighting the adjustment screws for speed and backcheck.

6. Maintenance

Regular maintenance ensures the longevity and proper functioning of your door closer.

- **Periodic Inspection:** Annually inspect the door closer for any signs of wear, loose screws, or oil leaks. Tighten any loose fasteners.
- **Cleaning:** Keep the door closer body and arm assembly clean from dust and debris. Use a soft, damp cloth. Do not use abrasive cleaners.
- **Oil Leaks:** If you observe any oil leaking from the closer body, it indicates an internal seal failure. The unit is sealed and not user-serviceable. A leaking unit should be replaced.

7. Troubleshooting

Refer to the table below for common issues and their potential solutions.

Problem	Possible Cause	Solution
Door slams shut	Latching speed (Valve 2) is too fast.	Turn Latching Speed (Valve 2) screw clockwise to slow down.

Problem	Possible Cause	Solution
Door does not close fully	Closing speed (Valve 1) or Latching speed (Valve 2) too slow; insufficient spring power.	Turn Closing Speed (Valve 1) or Latching Speed (Valve 2) counter-clockwise to speed up. Increase spring power if necessary.
Door is difficult to open	Spring power is set too high.	Decrease spring power by turning the spring adjustment nut counter-clockwise.
Oil leaking from closer body	Internal seal failure.	Unit is not repairable; replacement is required.

8. Specifications

Specification	Detail
Model Number	TC612-AL
Installation Type	Screw-In
Specification Met	ADA, ANSI/BHMA A156.4 Grade 1 Certified
UPC	704780136255
Item Weight	6.8 pounds
Product Dimensions	12.5 x 4.6 x 3.7 inches
Adjustable Tension	Sizes 2-6
Max. Door Weight	258 Pounds
Max. Door Size (Interior)	60 Inches
Max. Door Size (Exterior)	48 Inches
Material	Aluminum
Included Components	Wood and machine screws

9. Warranty and Support

The Global Door Controls Commercial Full Cover Door Closer comes with a**15-year warranty**. For warranty claims, technical support, or any questions not covered in this manual, please contact Global Door Controls customer service directly. Keep your proof of purchase for warranty purposes.

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