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Global Door Controls TC2201ADA-AL

Global Door Controls Commercial ADA Door Closer TC2201ADA-AL Instruction Manual

1. Overview

The Global Door Controls TC2201ADA-AL is a commercial-grade door closer designed for various applications, including aluminum storefront doors, wood, or hollow metal commercial doors. This model is ADA compliant and features adjustable spring tension, making it suitable for doors requiring controlled closing and latching. Its non-handed, reversible design allows for versatile installation.



Image 1: Global Door Controls TC2201ADA-AL Door Closer, main view.

2. Key Features

- Meets ADA requirements for accessibility.

- Grade 1 certified, ANSI/BHMA A156.4 compliant.
- Non-handed and reversible for flexible installation.
- Two independent regulating valves control sweep (closing) and latch speeds.
- Adjustable spring tension from sizes 1 to 4.
- Built-in backcheck feature.
- Constructed from durable aluminum alloy with an aluminum finish.
- Suitable for metal, wooden, or aluminum door applications.
- Supplied with both wood and machine screws for installation.

GRADE 1

TC2201ADA SERIES

GLOBAL DOOR CONTROLS

GRADE 1 STREAMLINE CLOSER

The TC2201ADA looks the same as the TC2200 and is ADA compliant. Meets ANSI/BHMA A156.4 Grade 1 requirements. It offers adjustable spring power sizes 1- 4 for use on interior doors requiring less than 5lbs. of opening force and exterior doors requiring less than 8.5 lbs.



FEATURES

- **TC2201 ADA** Meets ADA, ANSI/BHMA A156.4 Grade 1 requirements
- UL Listed R7483
- Aluminum Alloy body
- Non-handed / reversible
- Three independent valves control sweep, latch closing speeds and backcheck
- Packed for standard and top jamb mounting
- Supplied with both wood and machine screws
- 5 year mechanical warranty
- Finish: AL, DU, US3

ACCESSORIES - See Page 43

OPTIONS

- Backcheck - BC
- Parallel Arm Mount - PA
- Hold Open Arm - HOA
- Hold Open Parallel Arm Bracket - HOPAB-1245 (order separately)

Model #	Body Length	CTC Hole Pattern
TC 2202	8 1/8"	7 3/8" x 3/4"
TC 2203	8 7/8"	8 3/16" x 3/4"
All others	9 7/8"	9 1/16" x 3/4"

CROSS REFERENCE

	LCN	NORTON	DORMA	DOR-O-MATIC FALCON	RIXSON	SARGENT	YALE	CORBIN-RUSSWIN	ARROW
TC2200	NA	9300	644	SC90	NA	NA	2300BC	NA	NA

CAL-ROYAL	INTERNATIONAL	JACKSON	RYOBI	SENTINEL	S. PARKER	TACO	TAYMOR	CRL
700	90/680/780 850/880/980 750/8050	S225-255	D-1550	S52/S55/S70	NA	DX50/DX90	600	DC52-5

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Image 2: Detailed features and options for the TC2201ADA Series.

3. Installation

Proper installation is crucial for the optimal performance and longevity of your door closer. This model is packed for standard and top jamb mounting. Always consult the detailed drilling template provided with your product for precise hole placement.

3.1 Mounting Hardware

The door closer includes all necessary wood and machine screws for installation. Ensure you use the correct type of screw for your door and frame material.

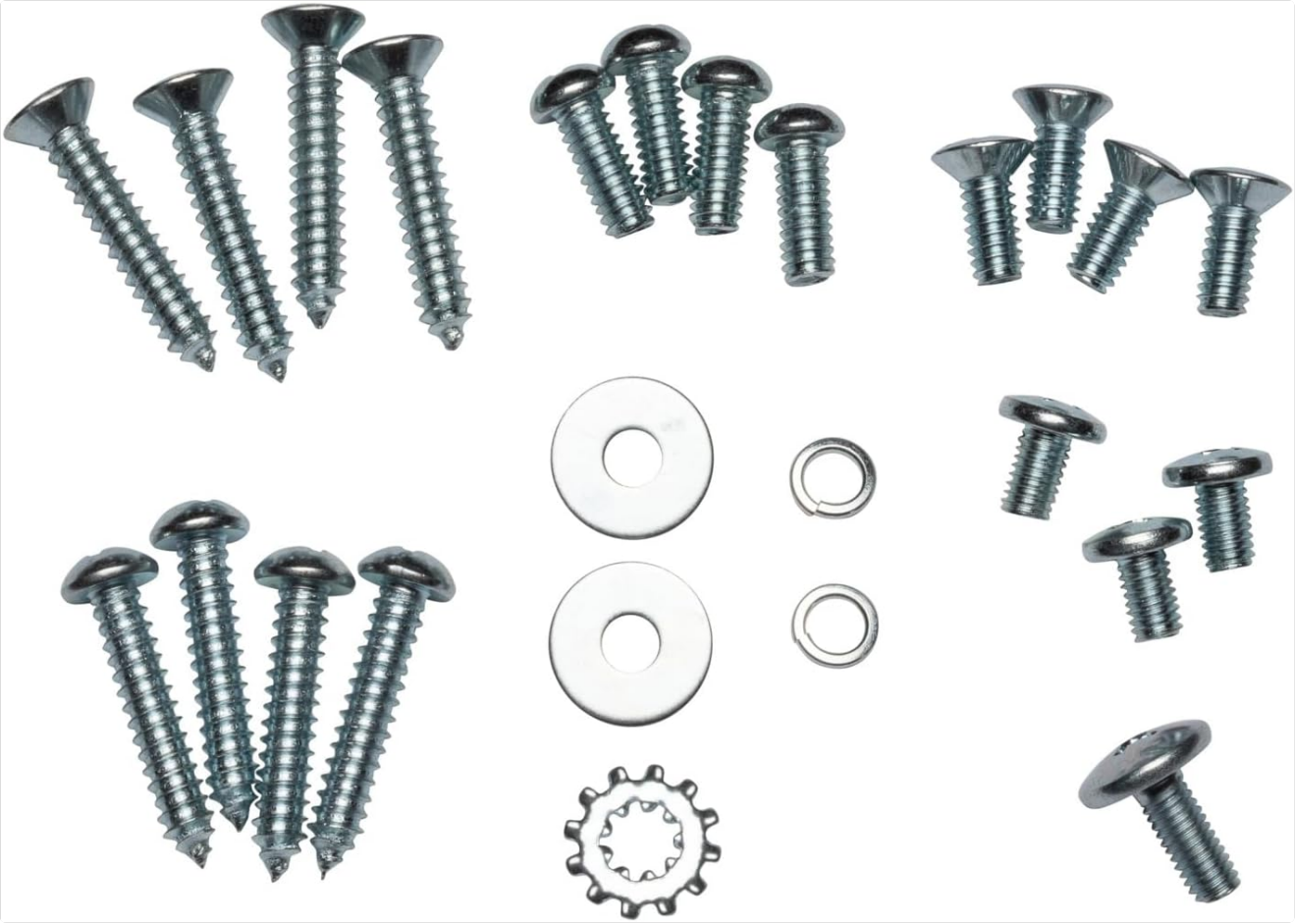


Image 3: Included mounting hardware (various screws and washers).

3.2 Product Dimensions

Refer to the diagram below for the physical dimensions of the door closer body and arm assembly. These measurements are important for planning installation space and ensuring compatibility with your door frame.

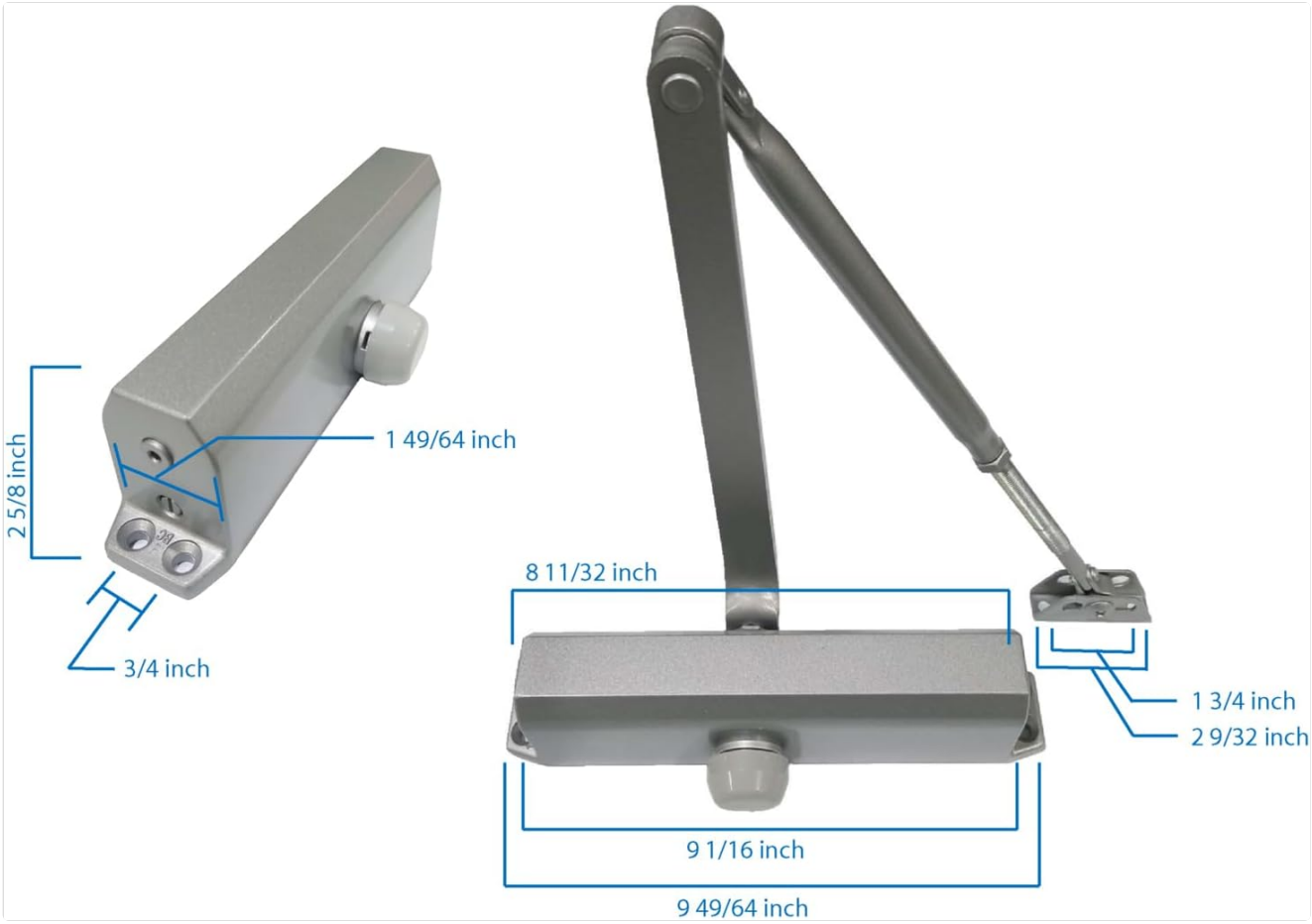


Image 4: Dimensional diagram of the door closer.

3.3 Door Size and Weight Compatibility

The TC2201ADA-AL accommodates a maximum door weight of 243 pounds. The maximum recommended door size is 44 inches for interior doors and 36 inches for exterior doors. The adjustable spring tension (sizes 1-4) allows for fine-tuning based on door weight and usage requirements.

GLOBAL DOOR CONTROLS

SIZE CHART

MODEL SIZE SELECTION

SERIES/MODEL TYPE	DOOR SIZE	MAX. DOOR WEIGHT	CTC HOLE PATTERN	SPRING TENSION SIZE
TC4361 SERIES				
TC4361	60" Interior/48" Exterior	258 lbs.	7-1/2" x 1"	Adjustable 1-6
TC200 SERIES				
TC201ADA	44" Interior/36" Exterior	243 lbs.	9-1/16" x 3/4"	Adjustable 1-4
TC201	48" Interior/42" Exterior	258 lbs.	9-1/16" x 3/4"	Adjustable 2-5
TC203	36" Interior/30" Exterior	155 lbs.	9-1/16" x 3/4"	3
TC204	44" Interior/36" Exterior	243 lbs.	9-1/16" x 3/4"	4
TC2200 SERIES				
TC2201ADA	44" Interior/36" Exterior	243 lbs.	9-1/16" x 3/4"	Adjustable 1-4
TC2202	32" Interior	137 lbs.	7-3/8" x 3/4"	2
TC2203	36" Interior/30" Exterior	155 lbs.	8-3/16" x 3/4"	3
TC2204	44" Interior/36" Exterior	243 lbs.	9-1/16" x 3/4"	4
TC2205	48" Interior/42" Exterior	250 lbs.	9-1/16" x 3/4"	5
TC300 SERIES				
TC302	32" Interior	137 lbs.	6-3/8" x 3/4"	2
TC303	36" Interior/30" Exterior	155 lbs.	6-3/8" x 3/4"	3
TC304	44" Interior/36" Exterior	243 lbs.	6-3/8" x 3/4"	4
TC400 SERIES				
TC411	44" Interior/36" Exterior	243 lbs.	12" x 3/4"	Adjustable 1-4
TC412	60" Interior/48" Exterior	258 lbs.	12" x 3/4"	Adjustable 2-6
TC4300 SERIES				
TC4300	60" Interior/48" Exterior	300 lbs.	2-1/4" x 3" x 1"	Adjustable 1-6
TC500 SERIES				
TC511	44" Interior/36" Exterior	243 lbs.	12" x 3/4"	Adjustable 1-4
TC512	60" Interior/48" Exterior	258 lbs.	12" x 3/4"	Adjustable 2-6
TC600 SERIES				
TC611	44" Interior/36" Exterior	243 lbs.	11-3/32" x 3/4"	Adjustable 1-4
TC612	60" Interior/48" Exterior	258 lbs.	11-3/32" x 3/4"	Adjustable 2-6
TC7000 SERIES				
TC7010 LP	60" Interior/48" Exterior	225 lbs.		Adjustable 2-4
TC7011 LP	60" Interior/48" Exterior	225 lbs.		Adjustable 2-4
TC7020 LP	36" Interior/30" Exterior	125 lbs.		3
TC7021 LP	36" Interior/30" Exterior	125 lbs.		3
TC7022 LP	36" Interior/30" Exterior	125 lbs.		3
TC7023 LP	36" Interior/30" Exterior	125 lbs.		3
TC7030 LP	44" Interior/36" Exterior	175 lbs.		4
TC7031 LP	44" Interior/36" Exterior	175 lbs.		4
TC7032 LP	44" Interior/36" Exterior	175 lbs.		4
TC7033 LP	44" Interior/36" Exterior	175 lbs.		4
TC7040 LP	48" Interior/42" Exterior	225 lbs.		5
TC7041 LP	48" Interior/42" Exterior	225 lbs.		5
TC7042 LP	48" Interior/42" Exterior	225 lbs.		5
TC7043 LP	48" Interior/42" Exterior	225 lbs.		5

Image 5: Model size selection chart, indicating door size, weight, and spring tension ranges.

3.4 General Installation Steps (Consult Template for Details)

1. **Determine Mounting Type:** Choose between standard or top jamb mounting based on your door and frame configuration.
2. **Prepare Door and Frame:** Mark the drilling locations on the door and frame using the provided template. Ensure precise measurements.
3. **Drill Holes:** Drill pilot holes at the marked locations.
4. **Mount Closer Body:** Secure the closer body to the door or frame using the appropriate screws.
5. **Assemble Arm:** Attach the main arm to the closer body and the secondary arm to the door frame.
6. **Connect Arm:** Connect the two arm sections, ensuring proper alignment.
7. **Adjust Spring Tension:** Adjust the spring tension screw to achieve the desired closing force. Refer to the 'Operation' section for details.
8. **Adjust Closing and Latching Speeds:** Fine-tune the closing and latching speeds using the regulating screws.

Refer to the 'Operation' section for details.



Image 6: Example of the door closer installed on a commercial door.

4. Operation and Adjustment

The TC2201ADA-AL door closer features two independent regulating valves for precise control over the door's closing cycle.

4.1 Closing Speed Adjustment

The **Closing Speed Regulating Screw** controls the speed at which the door closes from its fully open position until approximately the last 10-15 degrees of travel. Turning the screw clockwise will slow down the closing speed, while turning it counter-clockwise will increase the speed.

4.2 Latching Speed Adjustment

The **Latching Speed Regulating Screw** controls the speed of the door for the final 10-15 degrees of closing, ensuring the door latches securely without slamming. Turning this screw clockwise will slow down the latching speed, and counter-clockwise will increase it.

Adjust both screws incrementally, testing the door's action after each adjustment, to achieve the desired closing and latching performance.

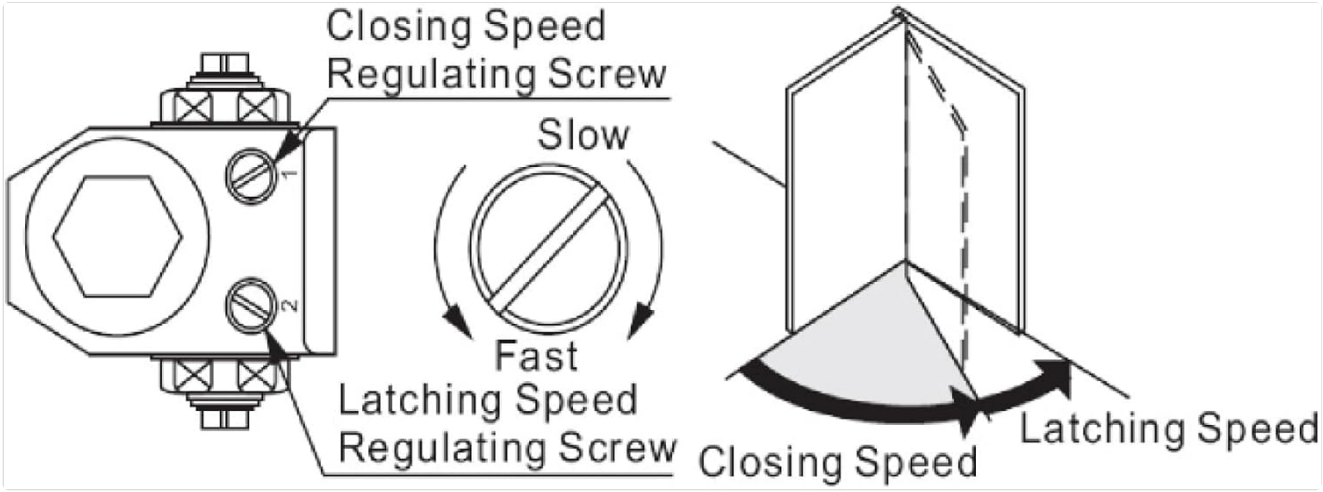


Image 7: Diagram illustrating the closing and latching speed regulating screws.

4.3 Spring Tension Adjustment

The spring tension can be adjusted to increase or decrease the closing force, accommodating different door weights and environmental conditions. This adjustment is typically made via a hex key or wrench on the end of the closer body. Refer to the installation template for specific instructions on adjusting spring power.

5. Maintenance

The Global Door Controls TC2201ADA-AL door closer is designed for durability and requires minimal maintenance. Regular inspection can help ensure continued optimal performance.

- **Periodic Inspection:** Annually inspect the closer body, arm assembly, and mounting screws for any signs of wear, damage, or looseness.
- **Cleaning:** Clean the exterior of the closer with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the finish.
- **Lubrication:** The internal mechanisms are factory-lubricated and generally do not require additional lubrication. If the arm assembly components show signs of stiffness, a small amount of silicone-based lubricant can be applied to pivot points.
- **Re-adjustment:** If the door's closing or latching behavior changes over time, re-adjust the speed and spring tension screws as needed.

6. Troubleshooting

If you encounter issues with your door closer, consider the following common troubleshooting steps:

- **Door Not Closing Fully:** Check if the spring tension is sufficient for the door's weight. Increase tension if necessary. Also, ensure the latching speed is not set too slow.
- **Door Closing Too Fast/Slamming:** Adjust the closing and latching speed regulating screws clockwise to slow down the door's movement.
- **Door Difficult to Open:** The spring tension may be set too high. Reduce the spring tension incrementally.
- **Oil Leakage:** An oil leak indicates internal seal failure. This typically requires replacement of the door closer.
- **Loose Mounting:** Check all mounting screws on the closer body and arm assembly. Tighten any loose screws. Do not overtighten.

If problems persist after attempting these steps, contact customer support or a qualified technician.

7. Specifications

Specification	Detail
Model Number	TC2201ADA-AL
Installation Type	Screw-In
Recommended Uses	Commercial buildings, High-traffic areas, Modern residential doors, ADA-compliant buildings
Specification Met	ADA, ANSI/BHMA A156.4 Grade 1
UPC	704780134824
Manufacturer	Global Door Controls
Item Weight	4.5 pounds
Product Dimensions	12.2 x 3.5 x 4 inches
Size	Small (Adjustable Tension 1-4)
Item Package Quantity	1
Included Components	Wood and machine screws
Material	Aluminum
Color/Finish	Aluminum finish
Maximum Door Weight	243 pounds
Maximum Interior Door Size	44 inches
Maximum Exterior Door Size	36 inches

8. Warranty Information

This Global Door Controls product comes with a**10-year warranty**. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use and service.

9. Customer Support

For further assistance, technical support, or warranty inquiries, please contact Global Door Controls customer service. Refer to the manufacturer's official website or product packaging for the most current contact information.

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