

TownSteel TDC-40-CUSH-AL

TownSteel TDC-40-CUSH-AL Heavy Duty Grade 1 Door Closer Instruction Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the TownSteel TDC-40-CUSH-AL Heavy Duty Grade 1 Door Closer. This product is designed for commercial applications, offering reliable and controlled door closing.

Key Features:

- **Material:** Aluminum
- **Grade:** 1 (Heavy Duty, meeting ANSI/BHMA A156.4 Grade 1 standards)
- **Handing:** Non-handed (suitable for left or right-hand doors)

2. PACKAGE CONTENTS

Upon opening the package, verify that all components are present:

- TownSteel TDC-40-CUSH-AL Door Closer Unit
- Mounting Equipment (includes screws, brackets, and a mounting template)



Image: The TownSteel TDC-40-CUSH-AL door closer unit, featuring its main body and adjustable arm, constructed from aluminum.

3. INSTALLATION INSTRUCTIONS

The TownSteel TDC-40-CUSH-AL door closer is designed for screw-in installation and is non-handed, allowing for flexible mounting on either left or right-hand doors.

3.1 Tools Required

- Drill
- Screwdriver (appropriate type for mounting screws)
- Measuring Tape
- Pencil
- Level

3.2 Mounting Options

This door closer can typically be installed in three common configurations: standard arm (pull side of door), top jamb (push side of door), or parallel arm (push side of door). Refer to the included physical mounting template for precise hole placement and specific instructions for your chosen configuration.

3.3 General Installation Steps

1. **Determine Mounting Location:** Select the appropriate mounting position on the door and frame based on the door swing and desired closing action.
2. **Mark Drill Holes:** Use the provided mounting template to accurately mark the drill hole locations for the closer body and arm bracket.
3. **Drill Pilot Holes:** Drill pilot holes at the marked locations, ensuring they are the correct size for the mounting screws.
4. **Mount Closer Body:** Securely attach the door closer body to the door or frame using the provided screws.
5. **Assemble and Attach Arm:** Assemble the closer arm components and attach the main arm to the closer spindle. Attach the shoe bracket to the door frame (for standard or top jamb) or to the door (for parallel arm).
6. **Connect Arm:** Connect the adjustable arm to the shoe bracket.
7. **Adjust Closing Speed:** Refer to the "4. Operation and Adjustment" section for details on adjusting the closing and latching speeds.

Note: Always consult the physical mounting template included with your product for exact measurements and specific instructions for your chosen installation type.

4. OPERATION AND ADJUSTMENT

The TDC-40-CUSH-AL door closer provides controlled closing of doors. Adjustments can be made to customize the closing speed and latching action.

4.1 Closing Speed Adjustment

The door closer typically features two adjustment valves:

- **Sweep Speed Valve:** Controls the door's closing speed from its fully open position until approximately 10-15 degrees from the closed position.
- **Latching Speed Valve:** Controls the door's closing speed for the final 10-15 degrees, ensuring the door latches securely.

To adjust:

1. Locate the adjustment valves on the closer body. These are usually small screws.
2. Turn the screw **clockwise** to **decrease** the speed (slower closing).
3. Turn the screw **counter-clockwise** to **increase** the speed (faster closing).
4. Make small adjustments (quarter turns) and test the door's closing action after each adjustment.

Caution: Do not overtighten or loosen adjustment screws excessively, as this can damage the closer or cause hydraulic fluid leakage.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your TownSteel TDC-40-CUSH-AL door closer.

- **Periodic Inspection:** Annually inspect the closer body, arm, and mounting screws for any signs of wear, damage, or looseness.
- **Tighten Fasteners:** Ensure all mounting screws and arm fasteners are securely tightened. Do not overtighten.
- **Check for Leaks:** Inspect the closer body for any signs of hydraulic fluid leakage. If leaks are detected, the unit may require replacement.
- **Clean:** Wipe down the closer body and arm with a soft, damp cloth to remove dust and grime. Avoid abrasive cleaners.
- **Lubrication:** The internal components are factory-lubricated and generally do not require additional lubrication.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Door slams shut	Sweep speed or latching speed set too fast.	Decrease sweep and/or latching speed by turning adjustment screws clockwise in small increments.
Door closes too slowly	Sweep speed or latching speed set too slow.	Increase sweep and/or latching speed by turning adjustment screws counter-clockwise in small increments.
Door does not latch	Latching speed too slow or insufficient power.	Increase latching speed. Ensure the door closer is properly sized for the door.

Problem	Possible Cause	Solution
Hydraulic fluid leak	Damaged seals or closer body.	The closer unit is likely damaged and requires replacement. Contact support.

7. PRODUCT SPECIFICATIONS

Model: TDC-40-CUSH-AL
Brand: TownSteel
Description: Heavy Duty Grade 1 Door Closer
Material: Aluminum
Grade: 1 (ANSI/BHMA A156.4 Grade 1)
Handing: Non-handed
Installation Type: Screw-In
Manufacturer: Doorking (Brand: TownSteel)
Package Dimensions: 13.5 x 4.5 x 4 inches
Weight: Approximately 10 Pounds

8. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact TownSteel customer service. Keep your purchase receipt and product model number (TDC-40-CUSH-AL) readily available when contacting support.

Contact Information: Refer to the official TownSteel website or your product packaging for the most current contact details.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question