An incorrectly installed or improperly adjusted door closer can cause property damage or personal injury. These installation instructions should be followed to avoid the possibility of misapplication or misadjustment.

NOTE: For special applications, a separate door and frame preparation template is packed with these instructions. Use this instruction sheet for installation sequence and closer adjustments only.

- Dimensions are based on standard doors and frames with 1/8" clearance, 5/8" stops, and square edge doors.
- Door and frame must be properly reinforced.
- Non-Handed Door Closers.

**NOTE:** For Top Jamb Application

A longer connecting rod is required for reveals greater than 4" (102mm)

- These door closers should **NOT** be installed on the exposed side (weather side) of exterior doors.

### TOOLS REQUIRED

- **Metal**
  - #7
  - 1/4" - 20

- **Wood**
  - 3/16"

- **Self Drilling Screws**
  - Wood and Metal

- **Machine Screws**
  - #7 Drill, 1/4" - 20 Tap

- **Sleeve Nut and Bolt**

  Drill 9/32" thru from Closer Side
  3/8" Drill other Side

  Check building and fire codes to see if your application requires the use of sleeve nuts and bolts.

### COMPONENT PARTS

- **Latch Valve**
- **Closer Body**
- **Power Adjustment Shaft**
- **Backcheck Valve**
- **Main Arm**
- **Parallel Arm Bracket**
- **Forearm Screw**
- **Connecting Rod**
- **Closer Arm**
- **Closer Cover**
- **Insert Cutout**
- **Screw Pack**
- **Pinion Cap**
1. PARTS

2. MARK AND DRILL HOLES (Right Hand Shown)

3. INSTALL CLOSER

4. INSTALL MAIN ARM

5. INSTALL MAIN ARM AND CONNECTING ROD

6. OPTIONAL HOLD-OPEN ARM

7. ADJUSTMENTS

8. INSTALL COVER / PINION CAP

Select hand of door and degree of door opening. Fold template on the corresponding line for desired degree of door opening and hand. Match this line with the hinge edge of door and attach template to door. Be sure frame line on template lines up with the bottom edge of frame face. Mark, prep and drill/tap 1/4” - 20 holes for closer body and jamb shoe mounting screws.

Remove template and use mounting screws to install the closer body to the door and the jamb shoe to the frame. Closer body should be oriented so that the speed regulating valves are toward the hinge stile of door.

Orient main arm so that the “H”, located on the main arm, lines up with the flat on the spindle. Press arm down on spindle and secure with spindle bolt.

Identify direction of hold-open nut according to hand of door and mount arm.

See Adjustments on Page 6 for setting Spring Power, Sweep Speed, Latch Speed, and Backcheck.

NOTE: Do not fully unscrew valves or hydraulic fluid will leak and closer will no longer be functional.

Adjust by loosening hold-open nut, then open door to desired position and tighten hold-open nut securely.

Press pinion cap onto un-used closer body spindle. If installing cover instead of pinion cap, slide cover over closer body and secure by tightening screws.
5300 Series Non-Hold Open Door Closer - Parallel Arm
Installation Instructions
Meets ANSI A156.4

1. PARTS

2. MARK AND DRILL HOLES  (Right Hand Shown)

Select hand of door and the degree of door opening. Fold template on the corresponding line for desired degree and hand. Fold or cut upper corner illustrated on template and align template with the hinge edge of door. At the “Frame Stop Line” fold toward you and attach template to door. Mark, prep and drill/tap 1/4"-20 holes for closer body and parallel arm bracket mounting screws.

3. INSTALL CLOSER

Remove template and use mounting screws to install the closer body to the door and the parallel arm bracket to the frame soffit. Closer body should be oriented so that the speed regulating valves are toward the lock stile of door.

4. INSTALL CONNECTING ROD

For parallel arm application only, remove regular arm / top jamb shoe. Attach connecting rod to the parallel arm plate.

5. INSTALL MAIN ARM

Use adjustable wrench to rotate spindle 45° counterclockwise for Right Hand Door or clockwise for Left Hand Door. Place main arm on spindle so that the “R” (Right Hand Door) or “L” (Left Hand Door) lines up with the spindle flat. Secure main arm and spindle by tightening spindle bolt.
6. INSTALL MAIN ARM AND CONNECTING ROD

a) Slide connecting rod into forearm of main arm.

b) Rotate main arm until the pivot point is 1-1/2" from door surface.

c) While holding arm in this position, tighten down forearm screw.

7. OPTIONAL HOLD-OPEN ARM

Identify direction of hold-open nut according to hand of door and mount arm.

Adjust by loosening hold-open nut, then open door to desired position and tighten hold-open nut securely.

8. ADJUSTMENTS

See Adjustments on Page 6 for setting Spring Power, Sweep Speed, Latch Speed, and Backcheck.

NOTE: Do not fully unscrew valves or hydraulic fluid will leak and closer will no longer be functional.

9. INSTALL COVER / PINION CAP

Press pinion cap onto un-used closer body spindle. If installing cover instead of pinion cap, slide cover over closer body and secure by tightening screws.
1. PARTS

2. MARK AND DRILL HOLES (Right Hand Shown)

<table>
<thead>
<tr>
<th>Door Opening</th>
<th>Dimension “A”</th>
</tr>
</thead>
<tbody>
<tr>
<td>To 100</td>
<td>7-1/2” (191mm)</td>
</tr>
<tr>
<td>101 to 120</td>
<td>6” (152mm)</td>
</tr>
<tr>
<td>121 to *180</td>
<td>3-1/2” (89mm)</td>
</tr>
</tbody>
</table>

A longer connecting rod is required for reveals greater than 4” (102mm)

Select hand of door and the degree of door opening. Separate template sections “A” and “B”. Fold template on the corresponding line for desired degree and hand. Match this line with the hinge edge of door and attach template to door. Be sure “Frame” line on template lines up with the top edge of door. Using a square, project “Closer Projection Line” on section “A” of template onto frame and use to align and attach section “B”. Be sure to align bottom edge of section “B” with edge of frame. Mark, prep and drill/tap 1/4"-20 holes for connecting rod shoe and closer body mounting screws.

3. INSTALL CLOSER

Remove template and use mounting screws to install the closer body to the top jamb and the connecting rod shoe to the door. Closer body should be oriented so that the speed regulating valves are toward the hinge stile of door.

4. INSTALL MAIN ARM

Orient main arm so that the “H”, located on the main arm, lines up with the flat on the spindle. Press arm down on spindle and secure with spindle bolt.

5. INSTALL MAIN ARM AND CONNECTING ROD

Slide connecting rod into forearm of main arm. Rotate main arm until connecting rod is at a 90˚ angle to frame. While holding arm in this position, tighten down forearm screw.

6. OPTIONAL HOLD-OPEN ARM

Identify direction of hold-open nut according to hand of door and mount arm.

Adjust by loosening hold-open nut, then open door to desired position and tighten hold-open nut securely.

7. ADJUSTMENTS

See Adjustments on Page 6 for setting Spring Power, Sweep Speed, Latch Speed, and Backcheck.

**NOTE:** Do not fully unscrew valves or hydraulic fluid will leak and closer will no longer be functional.

8. INSTALL COVER / PINION CAP

Press pinion cap onto un-used closer body spindle. If installing cover instead of pinion cap, slide cover over closer body and secure by tightening screws.
ADJUSTMENTS (USE 5/32" HEX WRENCH FOR THESE ADJUSTMENTS)

SWEEP SPEED

LATCH SPEED

BACKCHECK

OPTIONAL DELAY ACTION

Note: Adjust closing time speed to between 3 and 7 seconds from 90° to 0°. Greater closing times may be required for elderly or handicapped.

Adjust latch speed so door completely closes and latches.

Adjust backcheck accordingly to prevent excessive opening speed.

Adjust delay action accordingly to obtain desired delay time.

SPRING POWER ADJUST (Sizing in accordance to BHMA/ANSI 156.4)

TABLE OF SIZES
Closer is shipped set to size 3. To change the closer size, use a hex wrench to rotate the spring power adjust. Follow the chart to make the correct numbers of 360° turns to set the closer size appropriately for the door application.

The number of turns is an approximation and does not account for environmental or door hardware affects.

(Use 5/32" Hex Wrench for this adjustment)

ADJUSTMENT DIAGRAM

ARM PLACEMENT IN SHOE

Exterior (and Vestibule) Door Width

<table>
<thead>
<tr>
<th>Minimum Door Width (24”)</th>
<th>Regular Arm &amp; Top Jamb</th>
<th>Parallel Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>24” - 30” *</td>
<td>36” - 42” - 48”</td>
<td>Size 3 (0)</td>
</tr>
<tr>
<td>(610mm) - (762mm)</td>
<td>(914mm) - (1067mm) - (1219mm)</td>
<td></td>
</tr>
</tbody>
</table>

Interior Door Width

<table>
<thead>
<tr>
<th>Minimum Door Width (24”)</th>
<th>Regular Arm &amp; Top Jamb</th>
<th>Parallel Arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>24” - 60”</td>
<td>30” - 36” - 42” - 48” - 54” - 60”</td>
<td>Size 1 (10cw)</td>
</tr>
<tr>
<td>(610mm) - (1524mm)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Approx. 5 turns to increase / decrease one size.

cw = clockwise
ccw = counterclockwise

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