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

**TOOLS REQUIRED**
- **METAL**
  - BACKCHECK VALVE
  - POWER ADJUSTMENT SHAFT
  - INSERT CUTOUTS
  - COVER INSERT
  - SCREW PACK
- **WOOD**
  - CLOSER ARM (5911 SHOWN)
  - CLOSER COVER
- **Self Drilling Screws Wood and Metal**
  - #7 1/4"-20 Tap
- **Machine Screws**
  - #7 Drill, 1/4"-20 Tap
- **Sleeve Nut and Bolt**
  - Drill 9/32" thru from Closer Side
  - 3/8" Drill other Side

**5200 CLOSER COMPONENT PARTS**

- Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.
- Hold open arms are not permitted on fire doors.
- Sex-bolts may be required for wood or plastic faced fire door mounting.
- Minimum thickness recommended for reinforcements in hollow metal doors and frames: (12GA).
- Dimensions are based on standard doors and frames with 1/8" clearance, 5/8" stops.

**5300 CLOSER COMPONENT PARTS**
1. MARK AND DRILL HOLES (RIGHT HAND SHOWN)

Locate the arm and degree of opening for this installation. Use the chart below to mark/drill/tap (4) 1/4-20 holes for the door. Also, mark/drill/tap (5) 1/4-20 holes in the frame soffit and/or rabbet.

5906 Extra Heavy Duty Hold Open Stop Arm & 5907 Extra Heavy Duty Stop Arm:

5200 CLOSER MOUNTING CHART

<table>
<thead>
<tr>
<th>Dim. “A”</th>
<th>Dim. “B”</th>
<th>Door Opening with Stop</th>
<th>Door Opening w/o Stop</th>
</tr>
</thead>
<tbody>
<tr>
<td>10”</td>
<td>4-1/2”</td>
<td>90°</td>
<td>105°</td>
</tr>
<tr>
<td>8-3/4”</td>
<td>3-1/2”</td>
<td>100°</td>
<td>105 - 130°</td>
</tr>
<tr>
<td>7-1/2”</td>
<td>2”</td>
<td>110°</td>
<td>130 - 170°</td>
</tr>
</tbody>
</table>

5300 CLOSER MOUNTING CHART

<table>
<thead>
<tr>
<th>Dim. “A”</th>
<th>Dim. “B”</th>
<th>Dim. “C”</th>
<th>Door Opening with Stop</th>
<th>Door Opening w/o Stop</th>
</tr>
</thead>
<tbody>
<tr>
<td>10”</td>
<td>8-1/8”</td>
<td>9-1/8”</td>
<td>90°</td>
<td>105°</td>
</tr>
<tr>
<td>8-1/2”</td>
<td>6-1/2”</td>
<td>7-1/2”</td>
<td>100°</td>
<td>105 - 130°</td>
</tr>
<tr>
<td>7-1/2”</td>
<td>5-7/16”</td>
<td>6-7/16”</td>
<td>110°</td>
<td>130 - 170°</td>
</tr>
</tbody>
</table>

5911 Extra Heavy Duty Arm & 5912 Extra Heavy Duty Hold Open Arm:

5200 CLOSER MOUNTING CHART

<table>
<thead>
<tr>
<th>Dim. “A”</th>
<th>Dim. “B”</th>
<th>Door Opening</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-15/16”</td>
<td>3-7/16”</td>
<td>up to 120°</td>
</tr>
<tr>
<td>7-3/16”</td>
<td>1-3/4”</td>
<td>up to 180°</td>
</tr>
</tbody>
</table>

5300 CLOSER MOUNTING CHART

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>8-7/8”</td>
<td>6-7/8”</td>
<td>7-7/8”</td>
<td>up to 120°</td>
</tr>
<tr>
<td>7-3/16”</td>
<td>5-1/8”</td>
<td>6-1/8”</td>
<td>up to 180°</td>
</tr>
</tbody>
</table>

*This table was made using 4 1/2” wide hinges. Use of larger hinges or swing clear hinges will yield different results.
**Only use Dim “C” if using a drop plate.

Drop Plate Part # Minimum Top Rail Closer

<table>
<thead>
<tr>
<th>Drop Plate Part #</th>
<th>Minimum Top Rail</th>
<th>Closer</th>
</tr>
</thead>
<tbody>
<tr>
<td>5915 &amp; 5916</td>
<td>3”</td>
<td>5300</td>
</tr>
<tr>
<td>5918</td>
<td>4”</td>
<td>5200</td>
</tr>
<tr>
<td>5922 &amp; 5923</td>
<td>2-1/2”</td>
<td>5200</td>
</tr>
</tbody>
</table>

Drop plate may be needed in special situations.
2. ARM AND CLOSER BODY INSTALLATION

- Screw closer body to the door using (4) 1/4-20 x 1 1/2" screws. The speed regulating valves on the closer must face lock stile of door.
- Screw arm bracket to frame soffit using (5) 1/4-20 x 1 1/2" screws. Do not tighten screws all the way to make mounting the arm to the closer easier.

The fifth hole spacer shown above can be used when a narrow soffit prevents normal mounting. Drill/tap a 1/4-20 hole in the frame rabbet. Place the spacer between the bracket and frame and tighten using a 1/4-20 x 2" screw.

3. MOUNT ARM TO CLOSER

- Use an adjustable wrench to rotate the bottom pinion shaft about 45 degrees in the direction away from the door.
- Place arm on the top pinion shaft so that the “R” or the “L” is in line with the pinion flat as shown in the picture below.
- Attach the arm securely to the closer with the pinion screw. Tighten bracket to the frame if it was left loose during arm installation.

OPTIONAL DROP PLATE INSTALLATION

- If using a drop plate, screw the drop plate to the door using 1/4-20 screws. Screw closer to the drop plate using 7/16" long machine screws.
5906 EXTRA HEAVY DUTY HOLD OPEN STOP ARM

Removable stop can be used for right hand or left hand application (currently shown in right hand application). Stop can only be removed when arm is not attached to the frame. Use a 6mm wrench to unscrew stop and move it. See picture to the left. To engage hold open feature, open door to the stop and rotate adjustment knob clockwise to engage, counterclockwise to release.

5907 EXTRA HEAVY DUTY STOP ARM

Removable stop can be used for right hand or left hand application (currently shown in right hand application). Stop can only be removed when arm is not attached to the frame. Use a 6mm wrench to unscrew stop and move it. See picture to the left.
5911 EXTRA HEAVY DUTY ARM

To adjust hold open setting, open the door to about 5 degrees less than the desired position. Use wrench to securely tighten nut on the hold open arm (currently shown in right-handed application).

5912 EXTRA EXTRA HEAVY DUTY HOLD OPEN ARM

Install Cover (5200)  
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.

Install Cover/Pinion Cap (5300)  
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 CLOSER ADJUSTMENTS (USE 5/32" HEX WRENCH FOR THESE ADJUSTMENTS)

**SWEEP SPEED**

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

**LATCH SPEED**

Adjust latch speed so door completely closes and latches.

**BACKCHECK**

Adjust backcheck accordingly to prevent excessive opening speed.

**OPTIONAL DELAY ACTION**

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 number 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.

Approx. 5 turns to increase / decrease one size.

\[cw = \text{clockwise}\]

\[ccw = \text{counterclockwise}\]

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**5200 CLOSER ADJUSTMENTS (USE 5/32" HEX WRENCH FOR THESE ADJUSTMENTS)**

**SWEEP SPEED**

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

**LATCH SPEED**

Adjust latch speed so door completely closes and latches.

**BACKCHECK**

Adjust backcheck accordingly to prevent excessive opening speed.

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Adjust delay action accordingly to obtain desired delay time.

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