Installation Instructions

Cushion Stop Arm Door Closers (CA)

Model Numbers Included:
- Multi Size Closer
  - CA1601
- Sized Closer
  - CA160XBC

Note: “X” is Sized Closer number designates power size of closer 3 or 4.

Regular Arm Installation
See Page 2

Regular Arm Installation
See Page 2

Left Hand Door - LH
Right Hand Reverse - RHR

Right Hand Door - RH
Left Hand Reverse - LHR

Top Jamb Installation
See Page 3

Top Jamb Installation
See Page 3

Components

Power Adjustment Shaft
(1/8 Hex Drive)
(1601 Only)

“BC” Valve

“L” Valve

Screw Pack

Main Arm Screw
7701-HS

Adjusting Tube & Shoe
6620-12

Closer Size Stamp

Cushion Stop Kit
CAK7701

Main Arm

Sleeve Nut and Bolt

Thru Bolt and Grommet Nut

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

(Optional)

Screw Pack

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

Self Drilling Screws
Wood and Metal
For Wood drill 3/16 hole

Tools Required

3/16” Drill
7/16” Wrench
#7 Drill
#2 and #3 Screwdriver

Metal 1/4-20
Wood 3/16”

WARNING: Where severe or abusive conditions are expected a separate door stop, supplied by others, is recommended to assist in preventing damage to the door closer, closer arm, door, frame, or adjacent walls.

CAUTION

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

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80-9316-2538-020 Rev 3
CA1600 Series
Cushion Stop Arm Door Closers — Regular Mount

See bottom of Page 1 for drill sizes and screws to be used.

Installation Dimensions Chart

<table>
<thead>
<tr>
<th>Dim</th>
<th>Up to 85°</th>
<th>85°-90°</th>
<th>90°-95°</th>
<th>95°-100°</th>
<th>100°-105°</th>
<th>105°-110°</th>
</tr>
</thead>
</table>

Left Hand Door Shown

Latch and Sweep Valves Toward Hinge

Bottom of Frame
Top of Door
CA1600 Series
Cushion Stop Arm Door Closers — Top Jamb Mount

See bottom of Page 1 for drill sizes and screws to be used.

Installation Dimensions Chart

<table>
<thead>
<tr>
<th>Dim</th>
<th>CA1601/CA160XBC</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
</tr>
<tr>
<td>in. (mm)</td>
<td>in. (mm)</td>
</tr>
</tbody>
</table>

Right Hand Door Shown

Mounting allows for a reveal of 0° (0) - 3° (76)

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1600 Series Adjustments

5 Sweep

Backcheck

Latch

Caution: Do not completely close valve.

(Use 1/8" Hex Wrench for these Adjustments)

6 Spring Power Adjust

1601 only

Adjustment Chart

<table>
<thead>
<tr>
<th>DOOR TYPE OF INST.</th>
<th>MAXIMUM DOOR SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>34&quot; (0.85M)</td>
<td>36&quot; (0.90M)</td>
</tr>
<tr>
<td>38°</td>
<td>40&quot; (1.00M)</td>
</tr>
<tr>
<td>44°</td>
<td>48&quot; (1.20M)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EXT</th>
<th>INT</th>
<th>Regular Arm Top Jamb</th>
<th>Regular Arm Top Jamb</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA1601</td>
<td>360° TURNS (3/16 POWER ADJUST WRENCH)</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>30 FULL (360°) TURNS MAXIMUM AVAILABLE</td>
<td>3</td>
<td>5</td>
</tr>
</tbody>
</table>

7 To identify your model:

Size Model
1-6=1601
3=1603BC
4=1604BC

8 Regular Mount

Top Jamb Mount

Screw pinion cap onto pinion shaft by hand or with a Phillips screwdriver - Do Not Over Tighten.