1600H
Non Handed Door Closer
Regular Arm
Top Jamb Mount
Parallel Arm

**Hold Open Arm Models**

<table>
<thead>
<tr>
<th>Sized (Sizes 3,4)</th>
<th>Adjustable (Sizes 1-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1603BC-H</td>
<td>1601H</td>
</tr>
</tbody>
</table>

**WARNING**

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

Ce produit peut vous exposer au plomb qui, dans l’état de la Californie, est reconnu pour causer le cancer, des anomalies congénitales ou d’autres problèmes de reproduction. Pour plus d’informations, visitez: www.P65warnings.ca.gov.

**Regular Arm**

- Right Hand Door - RH
- Left Hand Reverse - LHR
- Left Hand Door - LH
- Right Hand Reverse - RHR

**Top Jamb Mount**

- Right Hand Door - RH
- Left Hand Reverse - LHR
- Left Hand Door - LH
- Right Hand Reverse - RHR

**Parallel Arm**

- Right Hand Door - RH
- Left Hand Reverse - LHR
- Left Hand Door - LH
- Right Hand Reverse - RHR

**Included Components**

- Closer
  - Dial Screw
  - Shoe
  - Dial
  - Main Arm Pinion Screw
  - Main Arm
  - Set Screw
  - Hold Open Arm
  - Arm Assembly
  - Wrench
  - Pinion Cap
  - 1/8” Hex Wrench Screw Pack

**Optional Plates**

- 1600P Cover
- 1688 Plate
- Soffit Adapter Plate
  - 1628H Soffit Plate Used with Parallel Arm Closers Only

**Legacy Friction Hold Open Arm**

Note: Legacy FHO arm has installation orientation. See 80-9300-0003-000 for details.

**To Determine Your Hand of Door:**

- Right Hand Reverse
- Left Hand Reverse

**To Identify Your Model:**

- Spring Power Adjustment (1601 ONLY)
- Size Code
- Date Code

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

**Tools Needed**

- Tape Measure
- Punch
- Pencil
- Phillips Screwdriver
- Adjustable Wrench
- Drill
- #7 1/4-20 for Metal
- 3/16” for Wood
- 9/32” for Either Nut and Bolt Option

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Before You Begin

ATTENTION:
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.

• 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.

• Doors should be hung on ball bearing or anti-friction hinges.

• A separate door stop is recommended.

• Always consult door/frame manufacturer for fastener compatibility.

• Door and frame must be properly reinforced.

• Adjust closing time speed between 3 and 7 seconds from 90° to 0°.

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

• Dimensions are given in inches (millimeters).

<table>
<thead>
<tr>
<th>Mounting Hardware</th>
<th>Door or Frame</th>
<th>Drill</th>
</tr>
</thead>
<tbody>
<tr>
<td>Closer, H/O Shoe or Optional PA Bracket: 1/4-14 x 1-1/2 Oval Flat Head Mach. Screw</td>
<td>Wood</td>
<td>3/16&quot; (4.76mm)</td>
</tr>
<tr>
<td>Closer, H/O Shoe or Optional PA Bracket: 1/4-20 x 3/4 Oval Flat Head Mach. Screw</td>
<td>Metal</td>
<td>Drill #7 (.201 dia. or 5.10mm) Tap 1/4-20</td>
</tr>
<tr>
<td>H/O Shoe to Optional PA Bracket: 1/4-20 x 1/2 Oval Flat Head Mach. Screw</td>
<td>Hollow Metal</td>
<td>9/32&quot; (7.00mm) thru 3/8&quot; (9.50mm) door face opposite to closer</td>
</tr>
<tr>
<td>Closer: Thru Bolt and Grommet Nut (TBGN) (optional)</td>
<td>Aluminum or Wood</td>
<td>3/8&quot; (9.50mm) thru</td>
</tr>
<tr>
<td>Closer: Sleeve Nut and Bolt (SNB) (optional)</td>
<td>All</td>
<td>9/32&quot; (7.00mm) thru 3/8&quot; (9.50mm) dia. x 3/8&quot; (9.500mm) deep, door face opposite to closer</td>
</tr>
</tbody>
</table>

Closer Adjustments

Use provided hex wrench to turn valves. NEVER force valves out of closer. NEVER completely close backcheck valve.

Door must be open to adjust spring closing power. Refer to chart. Do not use a power drill. Warranty will be void.

<table>
<thead>
<tr>
<th>Spring Closing Power</th>
<th>Number of Turns Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOOR TYPE OF INST.</td>
<td>MAXIMUM DOOR SIZE</td>
</tr>
<tr>
<td></td>
<td>34&quot; (0.86M) 36&quot; (0.90M) 40&quot; (1.00M) 44&quot; (1.10M) 48&quot; (1.20M)</td>
</tr>
<tr>
<td>Regular Arm Top Jamb</td>
<td>2 4 6 10 12</td>
</tr>
<tr>
<td>Parallel Arm</td>
<td>3 5 8 11 14</td>
</tr>
<tr>
<td>Regular Arm Top Jamb</td>
<td>3 5 8 11 14</td>
</tr>
<tr>
<td>Parallel Arm</td>
<td>5 8 11 16 19</td>
</tr>
</tbody>
</table>

*30 FULL (360°) TURNS MAXIMUM AVAILABLE = # TURNS AS SHIPPED

Pinion Cap or Cover

Do not over tighten cap or cover screws.

Regular Arm
Top Jamb Mount
Parallel Arm
1600H Regular Arm Installation (Right Hand Shown)

1. Prepare door and frame.

2. Mount closer to door.

3a. Remove dial from Hold Open arm.

3b. Install separate arms.

4. Connect arms, preload spring and tighten set screw.

5. Set Hold Open.

... You've installed the 1600H Hold Open Closer - Regular Arm. 

Go to page 2 for closer adjustments and decorative cap or cover installation.
1600H Top Jamb Mount Installation (Right Hand Shown)

1. Prepare door and frame.

2. Mount closer to frame.

3a. Remove dial from Hold Open arm.

3b. Install separate arms.

4. Connect arms, preload spring and tighten set screw.

5. Set Hold Open.

You’ve now installed the 1600H Hold Open Closer - Top Jamb Mount.

Go to page 2 for closer adjustments and decorative cap or cover installation.
1600H Parallel Arm Installation (Right Hand Shown)

1. Prepare door and frame.

2. Close latch and sweep valves.

3. Remove dial from Hold Open arm.

4. Install soffit plate and mount closer.

5. Install Hold Open arm to plate.

6. Place main arm on closer spindle and rotate.

### Door Opening

<table>
<thead>
<tr>
<th>Door Opening</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>To 100°</td>
<td>9-1/4 (235)</td>
<td>7-5/8 (194)</td>
<td>8-5/8 (219)</td>
</tr>
<tr>
<td>101° to 130°</td>
<td>7-3/4 (197)</td>
<td>6-1/8 (156)</td>
<td>7-1/8 (181)</td>
</tr>
<tr>
<td>131° to 180°</td>
<td>5-3/4 (146)</td>
<td>4-1/8 (105)</td>
<td>5-1/8 (130)</td>
</tr>
</tbody>
</table>

* Door/Wall/Hardware/Jamb conditions permitting

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Holes for 9388 Plate only

Top of Door

Frame

IMPORTANT

Dial DOWN Left and Right Hand
1600H Parallel Arm Installation (Right Hand Shown) continued

7. Remove arm and attach as shown.

8. Open latch and sweep valves.

- Do not completely open valves. Valves will leak.
- Arm under tension. Keep fingers away from moving parts.


10. Set Hold Open.

- Keep door open in position until dial screw secures dial.

You’ve now installed the 1600H Hold Open Closer - Parallel Arm.

- Go to page 2 for closer adjustments and decorative cap or cover installation.