**Installation Instructions**

Model: CR801BF/CR801SBF

Series can be adjusted from Power size 1 thru 6.

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**Components**

- Closer
- Standard Slim Cover
- Optional Full Cover
- Pinion Cap
- Screw Pack No.1
  - 1: x1
  - 2: x4
  - 3: x4
  - 4: x2
  - 5: x2
  - 6: x2
  - 7: x2

- Screw Pack No.2
  - 8: x1
  - 9: x4
  - 10: x4

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**Preparation for Fasteners (Tap & Drill):**
- Screw No. 2, 4, 9(Wood) → 7/32" (5.5mm.)
- Screw No. 3, 5, 10(Metal) → 7/32" Drill: #7(.201 dia.), Tap: 1/4" -20

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**Unit Adjustment**

**Control Valve Adjustments**
(see Figure 2)

- Closing Speed Controls (Figure 2)
  - Valve “1” Controls Sweep Range.
  - Valve “2” Controls Latch Range.
  - Valve “D” Controls Delay Range. (Optional)

**Opening Cycle**
- “Backcheck” valve controls the strength of cushioning in Backcheck Range. NEVER close this valve completely—it is not to provide a positive stop. (see Figure 2).

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**Closing Speed & Opening Door Controls** (Figure 2)

- Slow
- Fast

**Closing Cycle**

- “2”

**Opening Cycle**

- “1”

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**Closing Power Adjustment**

Using “Power Adjustment Chart” from page 3, 4 or 5.
Select the correct number of turns for power adjustment nut that corresponds with the installation. With 4mm hex key, rotate adjustment nut full 360° clockwise turns to desired setting. After closer has been installed and proper adjustments made to the sweep and latch, it may be necessary to readjust spring power for good closing action.

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**Spring Power Adjustment** (Figure 3)

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**ADJUST SPRING POWER**

<table>
<thead>
<tr>
<th>CLOSER SIZE</th>
<th>CLOCKWISE TURNS OF ADJUSTING NUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
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<td>4</td>
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<tr>
<td>5</td>
<td>12</td>
</tr>
<tr>
<td>6</td>
<td>16</td>
</tr>
</tbody>
</table>

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**CAUTION:** DO NOT BACK VALVES OUT OF CLOSER OR A LEAK WILL RESULT.
Regular Arm

Installation Instructions

- **Hinge or Pivot**

- **Top Edge of Door**

- **Opening**

  - Inches: 7 1/2 (191)
  - Millimeters: 25/32 (20)

- **Right Hand Door Shown.**
- **Same dimensions apply for left hand door measured from centerline of pivot point.**
- **Dimensions are in inches (mm).**

**PLEASE NOTE**

- This drawing is not to full scale.

- Therefore, do not use it as your template to locate the hole positions while you fabricate your door and frame for the installation of this product.

- Instead make the measurements needed manually without the use of the enclosed template which is not to full scale.

**INSTALLATION INSTRUCTIONS**

- Select angle of opening and use dimensions shown to locate 4 HOLES ON DOOR for closer body and 2 HOLES ON FRAME face for arm shoe.

- Prepare door and frame for fasteners. See "Preparation for Fasteners", page 1-figure 1.

- Set closing power for door size using Chart see page 1-figure 3.

- Mount closer body on door with screws (2) or (3), page 1-figure 1.

  - Be sure that power adjustment nut is away from hinge.

- Place main arm on closer pinion shaft with screw (1) page 1-figure 1.

  - Indexing main arm mark "S" with pinion groove as shown at right.

- Fix arm shoe to frame with screws (4) or (5), page 1-figure 1.

- Insert connecting rod into forearm.

- Pull main arm toward opposite side of hinge so that connecting rod will be perpendicular to door.

  - Fix connecting rod on forearm using screws (6), page 1-figure 1.

- Adjust closer and install cover and pinion cap. (When full cover is installed, use screws (7), page 2-figure 1.)

- See page 1-figure 2.) for closer adjustment.

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**Regular Arm Installation**

Closer mounts on hinge (pull) side of door. Closers illustrated with slim covers.

Left Hand Door - LH
Right Hand Reverse - RHR

Right Hand Door - RH
Left Hand Reverse - LHR

Page 2
Top Jamb Installation

Closer mounts on frame face on opposite to hinge (push) side of door. Closers illustrated with full covers.

Top Jamb Installation

Closer mounts on frame face on opposite to hinge (push) side of door. Closers illustrated with full covers.
**Parallel Arm Installation**

Closer mounts opposite to hinge (push) side of door. Closers illustrated without covers.

**Right Hand Door - RH**

**Left Hand Reverse - LHR**

**Left Hand Door - LH**

**Right Hand Reverse - RHR**