Components

Closer
Standard Full Cover
Arm Shoe
Connecting Rod
Forearm
Main Arm
Parallel Arm Bracket
Screw Pack No.1
Screw Pack No.2

Preparation for Fasteners (Tap & Drill):
- Screw No. 2, 4, 10 (Self Tapping) ➔ 7/32" (5.5mm.)
- Screw No. 3, 5, 11 (Metal) ➔ 7/32” Drill: #7(.201 dia.), Tap: 1/4”-20

Unit Adjustment

Control Valve Adjustments
(see Figure 2)
- Valve “1” Controls Sweep Range
- Valve “2” Controls Latch Range

Closing Speed Controls (Figure 2)
- “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)

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) 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.

Closing Speed & Opening Door Controls

- Control with 4mm Hex key ⑧
- “1” Controls Sweep Range
- “2” Controls Latch Range

Spring Power Adjustment

<table>
<thead>
<tr>
<th>CLOSER SIZE</th>
<th>CLOCKWISE TURNS OF ADJUSTING NUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>- 8</td>
</tr>
<tr>
<td>2</td>
<td>- 4</td>
</tr>
<tr>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>8</td>
</tr>
<tr>
<td>6</td>
<td>11</td>
</tr>
</tbody>
</table>

CAUTION!
DO NOT BACK VALVES OUT OF CLOSER OR A LEAK WILL RESULT.
**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.
- 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 “$” 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.
- Set closing power for door size using Chart, page 1-figure 3.
- Adjust closer and install cover (use screws ⑦, page 1-figure 1.)
- See page 1-figure 2 for closer adjustment.

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**Regular Arm Template**

- 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 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.

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**Regular Arm Installation**

Closer mounts on hinge (pull) side of door.

- Left Hand Door – LH
- Right Hand Reverse – RHR
- Right Hand Door – RH
- Left Hand Reverse – LHR
### INSTALLATION INSTRUCTIONS

- Select angle of opening and use dimensions shown to locate 4 HOLES ON FRAME for closer body and 2 HOLES ON DOOR face for arm shoe.
- Prepare door and frame for fasteners. See “Preparation for Fasteners”, page 1- figure 1.
- Mount closer body on frame 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.
- Fix arm shoe to door 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.
- Set closing powers for door size using Chart, see page 1- figure 3.
- Adjust closer and install cover (use screws ⑦, page 1- figure 1.)
- See page 1- figure 2 for closer adjustment.

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### PLEASE NOTE

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- 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.
**Parallel Arm Installation**

Closer mounts opposite to hinge (push) side of door.

**PLEASE NOTE**

- This drawing is not to 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.

**INSTALLATION INSTRUCTIONS**

- Select angle of opening and use dimensions shown to locate 4 HOLES ON DOOR for closer body and 4 HOLES ON FRAME face for parallel arm bracket.
- Prepare door and frame for fasteners. See “Preparation for Fasteners”, page 1–figure 1.
- Mount closer body on door with screws ② or ③, page 1–figure 1. **Be sure that power adjustment nut is toward hinge.**
- Place main arm on closer pinion shaft with screw ①, page 1–figure 3. Index main arm (mark “L” or “R”) with pinion groove as shown at right.
- Fix parallel arm bracket to frame with screws ⑩ or ⑪, page 1–figure 1.
- Disconnect arm shoe from connecting rod by removing screw. Remove arm shoe from connecting rod and discard. Assemble parallel arm bracket to connecting rod with screw ⑨, page 1–figure 1.
- Insert connecting rod into forearm.
- With door closed, adjust length of forearm and connecting rod so that the tip of the main arm is 1-1/2″ (38mm.) from parallel with door. Secure with screws ⑥, page 1.
- Set closing powers for door size using Chart, page 1–figure 3.
- Adjust closer and install cover (use screws ⑦, page 1–figure 1.)
- See page 1–figure 2 for closer adjustment.