Select application from illustrations below... Proceed to page shown. Closer is shown without cover.

**Regular Arm Installation**
Closer on hinge (pull) side of door.
See Page 2

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

**Top Jamb Installation**
Closer on frame face on stop (push) side of door.
See Page 3

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

**Parallel Arm Installation**
Closer on door on stop (push) side of door.
See Page 4

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

**Components:**
- Closer Body
- Soffit Plate
- Soffit Spacer
- Cover
- Connecting Rod
- Arm Slide
- Rod Screw
- Main Arm
- Arm Shoe
- Pinion Cap
- Backcheck Valve
- Latch Valve (2)
- Sweep Valve (1)
**Installation Instructions**

**Regular Arm Mount 1700**

**Select size mounting.** Use template to locate holes on door and frame:
- **4 on door** for closer. **2 on frame** face for arm shoe.

**Prepare for fasteners.** See Chart on Page 2.

**Remove rod and shoe from arm assembly.**

**Mount rod and shoe to frame.** (Long end of shoe toward hinge.)

**Mount closer to door.** Place end with two regulating valves toward hinge edge of door.

---

**Auxiliary Stop Required (By Others)**

**Install main arm on closer.** Place arm on pinion at 90° angle (perpendicular) to frame, see "Typical Installation" chart below. Fasten with arm screw.

**Open door slightly.** Align and insert adjusting rod into adjusting tube. Close door. Adjust forearm at 90° angle (perpendicular) to door. Tighten rod screw.

**Adjust closer.** See Page 3 ... Install pinion cap and cover.

---

**Fasteners Chart**

<table>
<thead>
<tr>
<th>Fasteners</th>
<th>Door or Frame</th>
<th>Drill-Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.5mm Dia. type &quot;A&quot; sheet metal screw</td>
<td>Wood</td>
<td>3/32&quot; (2.5 mm.)</td>
</tr>
<tr>
<td>M5 X 0.8 FHMS</td>
<td>Metal</td>
<td>Drill: #19 (4.2mm dia.) Tap: M5 X 0.8</td>
</tr>
</tbody>
</table>

---

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Top Jamb Mount 1700

Installation Instructions

Select size mounting. Use template to locate holes on door and frame:

- 4 on frame face for closer. 2 on door for arm shoe.

Prepare for fasteners. See Chart on Page 2.

Remove rod and shoe from arm assembly.

Mount rod and shoe to door. (Long end of shoe toward hinge).

Mount closer to frame. Place end with two regulating valves toward hinge edge of door.

Valve Adjustments

- Sweep Speed Valve “1”
- Latch Speed Valve “2”

Closing Cycle

Increase Closing Speeds “1” and “2”

Opening Cycle

Decrease Backcheck Range

Backcheck Model

- Backcheck controlled by valve “BC”.
- Never close “BC” valve completely.

Closing speed controlled by valve marked “1” (sweep range) and by valve marked “2” (latch range).

Auxiliary Stop Required

(By Others)

Install main arm on closer. Place arm on pinion at 90° angle (perpendicular) to frame, see “Typical Installation” chart below.

Reassemble arm. Adjust forearm at 90° angle (perpendicular) to door. Tighten rod screw.

Adjust closer. See below.

<table>
<thead>
<tr>
<th>SIZE</th>
<th>SHOE POSITION</th>
<th>DIM. A</th>
<th>DIM. B</th>
<th>DOOR WIDTH</th>
<th>DOOR WEIGHT</th>
<th>DOOR OPEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2-3/8” / (60)</td>
<td>7-1/4” / (183)</td>
<td>36” Max</td>
<td>125 lbs</td>
<td>160°</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>5-5/8” / (144)</td>
<td>9-5/16” / (237)</td>
<td>42” Max</td>
<td>150 lbs</td>
<td>140°</td>
<td></td>
</tr>
</tbody>
</table>

Max. Door Open:

- Size 3: 160° max. open at 3” to 3-7/8” reveals.
- Size 3: 180° max. open at 0” to 3” reveals.
- Size 4: 140° max. open 0” to 3-7/8” reveals.

Backcheck controlled by valve “BC”.

Never close “BC” valve completely.

Do not scale drawing.

Left hand door shown.

Dimensions are in inches (mm).

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Select size mounting. Use template to locate holes on door and frame:
- **4 on door** for closer (or drop plate).
- **3 on frame** for soffit plate.

Prepare for fasteners. See Chart on Page 2.

Mount soffit plate to frame.

---

Remove rod and shoe from arm assembly.
- Fasten rod and shoe to soffit plate.
- Mount closer or drop plate and closer to door.
Place end with two regulating valves toward lock edge of door.

Preload Closer. Place wrench on bottom pinion and rotate wrench 45° away from door face.

**Auxiliary Stop Required**
(By Others)

<table>
<thead>
<tr>
<th>SIZE</th>
<th>DIM. A</th>
<th>DIM. B</th>
<th>SPACER (Installed)</th>
<th>DOOR WIDTH</th>
<th>DOOR WEIGHT</th>
<th>DOOR OPEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>6 / (152.5)</td>
<td>4-9/16&quot; / (152.5)</td>
<td>NO</td>
<td>36&quot; Max</td>
<td>125 lbs</td>
<td>180°</td>
</tr>
<tr>
<td>4</td>
<td>6&quot; / (152.5)</td>
<td>4-9/16&quot; / (152.5)</td>
<td>YES</td>
<td>42&quot; Max</td>
<td>150 lbs</td>
<td>180°</td>
</tr>
</tbody>
</table>

Reassemble arm. Adjust forearm length to set arm elbow from door as shown below. Tighten rod screw.

Adjust closer. See Closer Adjustment (Pages 2 & 3).