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.

Select application from illustrations above ... Proceed to page shown.
Regular Arm Mount

- **Select door opening angle.** 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.**
  - Nut Up for Right Hand door.
  - Nut Down for Left Hand door.

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

- Do not scale drawing.
- Right hand door shown.
- Dimensions are in inches (mm).

---

**Fasteners Chart**

<table>
<thead>
<tr>
<th>Fasteners</th>
<th>Door or Frame</th>
<th>Drill-Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>#14 type “A” sheet metal screw</td>
<td>Wood</td>
<td>7/32&quot; (5.56 mm.)</td>
</tr>
<tr>
<td>1/4&quot; - 20 machine screw</td>
<td>Metal</td>
<td>drill: #7 (0.201&quot; dia.) Or 5.10mm tap: 1/4&quot; - 20</td>
</tr>
<tr>
<td>Sex nuts and bolts</td>
<td>Hollow-Metal</td>
<td>9/32&quot; (7.00 mm.) through; 3/8&quot; (9.50 mm.) Door face opposite to closer</td>
</tr>
<tr>
<td>Through-bolts and grommet-nuts</td>
<td>Aluminum or Wood</td>
<td>3/8&quot; (9.50 mm.) through</td>
</tr>
<tr>
<td>Through-bolts and grommet-nuts</td>
<td>All</td>
<td>9/32&quot; (7.00 mm.) through; 3/8&quot; (9.50 mm.) dia. x 3/8&quot; (9.50 mm.) deep on door face opposite to closer</td>
</tr>
</tbody>
</table>

---

**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 ... Then install pinion cap or cover.

---

Installation Instructions

Page 2
### Top Jamb Mount

**Instructions**

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

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

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

4. **Mount rod and shoe to door.**
   - Nut Up for Right Hand door.
   - Nut Down for Left Hand door.

5. **Fasten No. 5146 or 5157 drop plate to frame face.**

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

<table>
<thead>
<tr>
<th>Opening</th>
<th>Dim. A</th>
</tr>
</thead>
<tbody>
<tr>
<td>To 100°</td>
<td>7-1/2&quot; (191)</td>
</tr>
<tr>
<td>101° to 180°</td>
<td>4-1/4&quot; (108)</td>
</tr>
</tbody>
</table>

- Do not scale drawing.
- Left hand door shown.
- Dimensions are in inches (mm).

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

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

- Adjust closer. See below for Hold Open, Closing Speed and Backcheck.

### Valve Adjustments

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

- **Backcheck Model Closers only** suffix “BC”. Backcheck controlled by valve “BC”. Never close “BC” valve completely.

- **Hold Open Adjustment.** Open door to angle of hold open desired. Tighten hold open adjustment nut with a 13/16” wrench or socket.

---

![Diagram of Top Jamb Mount Installation](Diagram.png)

---

**Drop Plates**

<table>
<thead>
<tr>
<th>Closer</th>
<th>Drop Plate #</th>
</tr>
</thead>
<tbody>
<tr>
<td>without Cover</td>
<td>5146</td>
</tr>
<tr>
<td>with Cover</td>
<td>5157</td>
</tr>
</tbody>
</table>
Parallel Arm Mount

- Select door opening angle. 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. 
  Nut Up for Right Hand door.
  Nut Down for Left Hand door.

- Mount closer or drop plate and closer to door. 
  Place end with two regulating valves toward lock edge of door.

- Install main arm on closer. Rotate pinion 45° toward hinge edge of door to align main arm letter “A” (right hand) or “B” (left hand) with Pinion Index Mark, see “Typical Installation” this page. Tighten rod screw.

- Reassemble arm. Adjust forearm length to set arm elbow about 1-1/2 (38) from door. Tighten rod screw.

- Adjust closer. See Closer Adjustment on Pages 2 & 3.

---

**Top View Typical Installation**

**Opening** | **Dim. A** | **Dim. B**
--- | --- | ---
To 100° | 9-7/8 (251) | 7-1/4 (184)
101° to 180° | 7-1/8 (181) | 4-1/4 (108)

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3000 Highway 74 East • Monroe, NC 28112
Tel: (800)-438-1951 • Fax: (800)-338-0965
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