Caution: Drilling in this area may damage closer.

Door Clearance: 3/8" (3)

Spring Power adjustable from 5 lbs of Opening Force (at 0' turns) to Medium Spring Tension (at 9' turns).

Speed Regulating Valves:
- Turn Speed Regulating Valves CLOCKWISE to slow speed.
- COUNTER CLOCKWISE to increase speed.

Spring Power Adjustable
### 609 Series Closer

#### 1. Spring Power

**Spring Power Adjustment**

<table>
<thead>
<tr>
<th>Size</th>
<th>Number of Turns</th>
<th>Direction</th>
<th>Interior Maximum Width</th>
<th>Exterior Door Maximum Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>Factory Preset</td>
<td>30&quot;</td>
<td>5 lb Opening Force</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>Clockwise (+)</td>
<td>34&quot;</td>
<td>30&quot;</td>
</tr>
<tr>
<td>3</td>
<td>9</td>
<td>Clockwise (+)</td>
<td>38&quot;</td>
<td>34&quot;</td>
</tr>
</tbody>
</table>

#### 2. Door Header & Cover Plate

**Door Header**
Drill and countersink outside top surface for 10-32 x 7/16" (11) and 1/4-20 x 1 1/8" (32) flat head screws as shown.

**Cover Plate**
Drill 1 7/8" (45) hole as shown
Drill 3/8" (13) holes as shown

**Drill holes for #10 pan head self-threading screws as shown.**

**Install anchor using #10 x 7/16" pan head self-threading screws.**

**Mount door header on anchor using 10-32 x 7/16" flat head self-tapping screws.**

#### 3. Hinge Jamb

**Drill 1 3/8" (45) Hole**

**Drill 1 3/4" (45) hole as shown**

**Drill 1/2" (13) holes as shown**

**Drill and countersink for 1/4-20 flat head screws**

**Drill and countersink for 10-32 flat head screws**
4. **Angle Bracket**

1. Attach angle bracket to closer cylinder end with (1) \(\frac{1}{4}-20 \times \frac{1}{2}\) hex cap screw.
2. Install closer into header by inserting tabs into anchor bracket and securing with (2) \(\frac{1}{4}-20 \times \frac{5}{8}\) pan head screws.
3. Bring closer body up with angle bracket onto (2) \(\frac{1}{4}-20\) flat head machine screws sticking down from top of header. Secure with washers and nuts on bottom of angle bracket.

5. **Top Door Rail - End Loading**

**“PT” Type end Loading Arm**

1. Drill or drill and tap holes in top of door as shown.
2. Position arm in door by placing arm pin in \(\frac{3}{16}\) (5) hole.
3. Install arm using three \(\frac{1}{4}-20 \times \frac{3}{4}\) pan head machine screws and lock washers.
4. Center arm in the top rail by adjusting the two \(\frac{1}{4}-20 \times 1\) hex head centering bolts.

**NOTE:** After door is installed, the two \(\frac{1}{4}-20 \times 1\) socket head clamp bar cap screws with lock washers must be tightened securely.

*ASSA ABLOY DRS-4AC rail shown.

6. **Bottom Door Rail - End Loading**

1. Drill and tap \(\frac{1}{4}-20\) holes in bottom rail of door as shown.
2. Install pivot bearing retainer in bottom of door using two \(\frac{1}{4}-20 \times \frac{3}{4}\) pan head machine screws and lock washers.
3. Laterally adjust center of pivot bearing retainer 2 3/8" (67) from hinge edge of door and tighten screws securely.

**NOTE:** For doors with 1" (25) bottom rail depth, pivot bearing stud must be shortened by sawing off at score 1/2" (13) from bottom.

*ASSA ABLOY DRS-4AC rail shown.*
7 Floor Mount Pivot

1. Center pivot base against door jamb on hinge side.
2. Mark and drill 1/4" (6) holes 1 1/2" (38) deep in floor for plastic expansion plugs.
3. Mount base using *12 x 1 1/4" plastic expansion plugs and *12 x 1 1/4" flat head all-purpose screws.
4. Install pivot stud and bearing with 1/2-20 hex lock nut as shown, and adjust bearing height for proper door clearance and firmly tighten lock nut.
5. When using threshold, drill 1 1/4" (32) hole for clearance of pivot base on centerline 2 3/4" (70) from hinge end of threshold.

NOTE: When threshold is not used, pivot bearing stud must be shortened by sawing off at score 1/8" (13) from bottom.

8 Threshold Mount Pivot

Threshold Mount Pivot

1. Drill hole in threshold as shown.
2. Install threshold adapter nut from top and secure with 3/4-16 hex jam nut underneath.
3. Install pivot stud and bearing with 1/2-20 hex lock nut as shown.
4. Adjust bearing height for proper door clearance.
5. Firmly tighten lock nut.