PARALLEL ARM (PUSH SIDE) Mounting
TO 180° OPENINGS.

*ADJUST SPRING TENSION ACCORDING TO THE DOOR WIDTH & WEIGHT

<table>
<thead>
<tr>
<th>OPENING</th>
<th>DIA A (in)</th>
<th>DIA B (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>To 120°</td>
<td>10.3/4 (273.8mm)</td>
<td>6 15/16 (176.2mm)</td>
</tr>
<tr>
<td>120°-180°</td>
<td>8 3/4 (222.2mm)</td>
<td>4 3/4 (120.6mm)</td>
</tr>
</tbody>
</table>

*NOTE: MAX 16 TURNS FROM MINIMUM SETTING

**INSTALLATION SEQUENCE**

1. Select door opening angle and use dimensions shown above.
2. Drill pilot holes in door leaf and frame for #14 all-purpose screws for wood door/frame. Or drill and tap for 1/4-20 machine screws for metal door/frame.
3. Mount closer on door using provided screws.
4. Speed adjusting valve must be positioned away from hinge edge.
5. Install parallel arm bracket to frame using provided screws.
6. Using a wrench on the square shaft at bottom of closer, rotate shaft approximately 45° toward hinge edge of door.
7. Hold and place main arm on top shaft of closer at proper index mark as illustrated. For LEFT HAND DOOR "L" (Illustration "A"), For RIGHT HAND DOOR "R" (Illustration "B"). Tighten arm screw with lock-washer securely.
8. Remove arm shoe from forearm and discard. Install rod end of forearm to bracket using provided screw/washer assembly.
9. Adjust length of adjustable forearm so that main arm is parallel to frame.
10. Adjust the closer following instructions as shown on page 1.

**DOOR CLOSER ADJUSTMENTS**

NOTE: These instructions apply only to closers equipped with backcheck action. To increase backcheck intensity, turn "BC" valve clockwise. To decrease backcheck intensity, turn "BC" valve counter-clockwise.

**BACKCHECK ADJUSTMENT**

NOTE: These instructions apply only to closers equipped with backcheck action. To increase backcheck intensity, turn "BC" valve clockwise. To decrease backcheck intensity, turn "BC" valve counter-clockwise.

**CHART TO DETERMINE HAND OF DOOR**

**NOTE:** These instructions apply only to closers equipped with backcheck action. To increase backcheck intensity, turn "BC" valve clockwise. To decrease backcheck intensity, turn "BC" valve counter-clockwise.

**PARALLEL ARM (PUSH SIDE) Mounting**

**TO 180° OPENINGS.**

*ADJUST SPRING TENSION ACCORDING TO THE DOOR WIDTH & WEIGHT

<table>
<thead>
<tr>
<th>MAX</th>
<th>SPRING POWER</th>
<th>FULL TURNS OF SPRING ADJUSTING NUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>45</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>65</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>85</td>
<td>4</td>
<td>11</td>
</tr>
</tbody>
</table>

**NOTE:** MAX 16 TURNS FROM MINIMUM SETTING

**INSTALLATION SEQUENCE**

1. Select door opening angle and use dimensions shown above.
2. Drill pilot holes in door leaf and frame for #14 all-purpose screws for wood door/frame. Or drill and tap for 1/4-20 machine screws for metal door/frame.
3. Mount closer on door using provided screws.
4. Install parallel arm bracket to frame using provided screws.
5. Using a wrench on the square shaft at bottom of closer, rotate shaft approximately 45° toward hinge edge of door.
6. Hold and place main arm on top shaft of closer at proper index mark as illustrated. For LEFT HAND DOOR "L" (Illustration "A"), For RIGHT HAND DOOR "R" (Illustration "B"). Tighten arm screw with lock-washer securely.
7. Remove arm shoe from forearm and discard. Install rod end of forearm to bracket using provided screw/washer assembly.
8. Adjust length of adjustable forearm so that main arm is parallel to frame.
9. Adjust the closer following instructions as shown on page 1.

**DOOR CLOSER ADJUSTMENTS**

NOTE: These instructions apply only to closers equipped with backcheck action. To increase backcheck intensity, turn "BC" valve clockwise. To decrease backcheck intensity, turn "BC" valve counter-clockwise.

**BACKCHECK ADJUSTMENT**

NOTE: These instructions apply only to closers equipped with backcheck action. To increase backcheck intensity, turn "BC" valve clockwise. To decrease backcheck intensity, turn "BC" valve counter-clockwise.

**CHART TO DETERMINE HAND OF DOOR**

**NOTE:** These instructions apply only to closers equipped with backcheck action. To increase backcheck intensity, turn "BC" valve clockwise. To decrease backcheck intensity, turn "BC" valve counter-clockwise.
1. Select door opening angle and use dimensions shown above. Mark four (4) holes on door leaf for closer body and two (2) holes on frame for arm shoe.

2. Drill pilot holes in door leaf and frame for #14 all-purpose screws for wood door/frame. Or drill and tap for 1/4-20 machine screws for metal door/frame.

3. Install forearm/arm shoe assembly to door leaf using provided screws.

4. Mount closer on door frame using provided screws.

5. Install main arm to top pinion shaft, perpendicular to door. Secure it tightly with provided arm screw/washer assembly.

6. Adjust length of forearm so that forearm is perpendicular to frame when assembled to preloaded main arm (see below illustration). Secure forearm to main arm with provided screw/washer assembly.

7. Snap pinion cap over shaft at bottom of closer. If the slim cover is packed, please fix it by provided screws.

8. Adjust the door closer, following instructions as shown on page 1.
1. Select door opening angle and use dimensions shown above. Mark four (4) holes on door leaf for closer body and two (2) holes on frame for arm shoe.

2. Drill pilot holes in door leaf and frame for #14 all-purpose screws for wood door/frame. Or drill and tap for 1/4-20 machine screws for metal door/frame.

3. Install forearm/arm shoe assembly to door leaf using provided screws.

4. Mount closer on door frame using provided screws. **SPEED ADJUSTING VALVE MUST BE POSITIONED TOWARD HINGE EDGE**

5. Install main arm to top pinion shaft, perpendicular to door. Secure it tightly with provided arm screw/washer assembly.

6. Adjust length of forearm so that forearm is perpendicular to frame when assembled to preloaded main arm (see below illustration). Secure forearm to main arm with provided screw/washer assembly.

7. Snap pinion cap over shaft at bottom of closer. If the slim cover is packed, please fix it by provided screws.

8. Adjust the door closer, following instructions as shown on page 1.

**INSTALLATION SEQUENCE**

- Left hand door shown
- Right hand door opposite
- Dimensions are in inches (mm)
- Do not scale drawing
PARALLEL ARM (PUSH SIDE) Mounting TO 180° OPENINGS.

*ADJUST SPRING TENSION ACCORDING TO THE DOOR WIDTH & WEIGHT

<table>
<thead>
<tr>
<th>OPENING</th>
<th>DIM A (mm)</th>
<th>DIM B (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>To 120°</td>
<td>10.34</td>
<td>6.15/18</td>
</tr>
<tr>
<td>120°-180°</td>
<td>8.34</td>
<td>4.3/4</td>
</tr>
</tbody>
</table>

*NOTE: MAX 16 TURNS FROM MINIMUM SETTING

INSTALLATION SEQUENCE

1. Select door opening angle and use dimensions shown above.
2. Mark four (4) holes on door for closer and four (4) holes underneath frame for parallel bracket.
3. Drill pilot holes in door leaf and frame for #14 all-purpose screws for wood door/frame.
4. Mount closer on door using provided screws.

SPEED ADJUSTING VALVE MUST BE POSITIONED AWAY FROM HINGE EDGE

5. Using a wrench on the square shaft at bottom of closer, rotate shaft approximately 45° toward hinge edge of door.
6. Hold and place main arm on top shaft of closer at proper index mark as illustrated.

BACKCHECK ADJUSTMENT

NOTE: These instructions apply only to closers equipped with backcheck action.

To increase backcheck intensity, turn "BC" valve clockwise.
To decrease backcheck intensity, turn "BC" valve counter-clockwise.

Regular Arm Installation
Closers installs on PULL/HINGE side of door.

Top Jamb Installation
Closers installs on PUSH/STOP side of door.

Parallel Arm Installation
Closers installs on PUSH/STOP side of door. *Optional