TDC-100 DOOR CLOSER INSTALLATION INSTRUCTIONS

**CHART TO DETERMINE HAND OF DOOR**

<table>
<thead>
<tr>
<th>PULL SIDE</th>
<th>PUSH SIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge Side of Door</td>
<td>Hinge Side of Door</td>
</tr>
<tr>
<td>Stop Side of Door</td>
<td>Stop Side of Door</td>
</tr>
<tr>
<td><strong>THIS IS A LEFT HAND DOOR</strong></td>
<td><strong>THIS IS A RIGHT HAND DOOR</strong></td>
</tr>
</tbody>
</table>

**COMPONENTS**

- Closer Body
- Arm Assembly
- Pinion Cap
- Forearm
- Locknut
- Foot
- Washer
- Parallel Arm (PA) Plate
- Elbow Washer and Screw
- Main Arm

**CONTROL FUNCTION**

**CLOSING SPEED CONTROL**

- **CAUTION**
  - DO NOT BACK VALVES OUT OF CLOSER OR A LEAK WILL RESULT

- **ATTENTION:**
  - ADJUST CLOSING SPEED TIME TO BETWEEN 4 TO 6 SECONDS FROM 90° SWEEP
  - USE OF THE DOOR BY HANDICAPPED, ELDERLY OR SMALL CHILDREN MAY REQUIRE LONGER CLOSING TIME.

- **STANDARD CLOSING CYCLE**

**OPENING DOOR CONTROL**

- **CAUTION**
  - DO NOT BACK VALVES OUT OF CLOSER OR A LEAK WILL RESULT

- **ATTENTION:**
  - BACKCHECK ("BC") VALVE CONTROLS THE HYDRAULIC RESISTANCE TO DOOR OPENING IN BACKCHECK RANGE. NEVER CLOSE THIS VALVE COMPLETELY. IT IS NOT TO PROVIDE A POSITIVE STOP.

**FINAL ADJUSTMENT AND REGULATING PROCEDURES**

**REGULATING DOOR SPEED AND LATCHING SPEED**

- TURN SPEED REGULATING VALVE CLOCKWISE TO SLOW DOWN OR COUNTER CLOCKWISE TO SPEED UP DOOR MOVEMENT

- **THIS VALVE CONTROLS LATCHING SPEED**

- **THIS VALVE CONTROLS DOOR SWEEP SPEED**

**REGULATING SPRING POWER REGULATING BC POWER**

- POWER ADJUSTMENT SCREW. TURN THIS SCREW CLOCKWISE TO INCREASE OR COUNTER CLOCKWISE TO DECREASE.

- **TURN BC REGULATING VALVE CLOCKWISE TO INCREASE OR COUNTER CLOCKWISE TO DECREASE. NEVER CLOSE THIS VALVE COMPLETELY.**

**ADJUSTING FOOT FOR CLOSING POWER**

- MOVE FOOT PIVOT TO HOLE AS ILLUSTRATED BELOW

- **LESS POWER**

- **MORE POWER**

- **Hinge Edge of Door**

- **STANDARD POSITION**
"icap" = Recommended mounting locations for meeting ADA compliance

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DIMENSIONS &quot;A&quot;</th>
<th>OPENING</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDC 100</td>
<td>7 178</td>
<td>TO 100°</td>
</tr>
<tr>
<td></td>
<td>6 152</td>
<td>101° TO 120°</td>
</tr>
<tr>
<td></td>
<td>3-1/2 89</td>
<td>*121° TO 180°</td>
</tr>
</tbody>
</table>

- Right hand door illustrated
- Same dimensions apply to left hand door
- Measured from hinge C
- Dimensions are in inches (mm)
- Do not scale drawing

Installation Instructions

1. Select degree of door opening. Use dimensions shown in chart and illustration above to mark locations of mounting screws on door and frame then prepare holes.
2. Assemble main arm to closer.
3. Attach closer to door with speed regulating valves toward hinge.
4. Attach the foot of the forearm to frame.
5. Adjust length of forearm to position forearm at right angle to frame when connected to main arm at elbow. Use washer and screw provided to secure pivot connection. Tighten locknut on forearm.
6. Snap pinion cap over spindle at bottom of closer.
7. Adjust closer.

Power Adjustment Chart

<table>
<thead>
<tr>
<th>Power Adjustment Chart</th>
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<tbody>
<tr>
<td>MAXIMUM DOOR SIZE</td>
</tr>
<tr>
<td>TYPE OF INSTALLATION</td>
</tr>
<tr>
<td>Door</td>
</tr>
<tr>
<td>REGULAR ARM</td>
</tr>
<tr>
<td>TOP JAMB</td>
</tr>
<tr>
<td>PARALLEL ARM</td>
</tr>
<tr>
<td>FULL 360 DEGREES</td>
</tr>
<tr>
<td>DEGREES OF OPPOSITION</td>
</tr>
<tr>
<td>0°</td>
</tr>
<tr>
<td>90°</td>
</tr>
<tr>
<td>180°</td>
</tr>
</tbody>
</table>

IMPORTANT: When door closer is set to 5 lbs to meet ADA compliance or ANSI A117.1 it may not close and latch the door every time the door closes.
TOP JAMM INSTALLATION

"" = Recommended mounting locations for meeting ADA compliance

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</thead>
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<tr>
<td>TDC 100</td>
<td>inches</td>
<td>mm</td>
</tr>
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<td>89</td>
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</tbody>
</table>

RIGHT HAND DOOR ILLUSTRATED
SAME DIMENSIONS APPLY TO LEFT HAND DOOR
MEASURED FROM HINGE CENTERS
DIMENSIONS ARE IN INCHES
DO NOT SCALE DRAWING

INSTALLATION INSTRUCTIONS

1. SELECT DEGREE OF DOOR OPENING. USE DIMENSIONS SHOWN IN CHART AND ILLUSTRATION ABOVE TO MARK LOCATIONS OF MOUNTING SCREWS ON DOOR&FRAME THEN PREPARE HOLES.
2. ASSEMBLE MAIN ARM TO CLOSER.
3. ATTACH CLOSER TO FRAME WITH SPEED REGULATING VALVES TOWARD HINGE.
4. ATTACH THE FOOT OF THE FOREARM TO DOOR.
5. ADJUST LENGTH OF FOREARM TO POSITION FOREARM AT RIGHT ANGLE TO FRAME. WHEN CONNECTED TO MAIN ARM AT ELBOW USE WASHER AND SCREW PROVIDED TO SECURE PIVOT CONNECTION. TIGHTEN LOCKNUT ON FOREARM.
6. SNAP PINION CAP OVER SPINDLE AT BOTTOM OF CLOSER
7. ADJUST CLOSER.

About Power Adjustment
Before installation, Adjust the spring power as chart in page 2. Adjust spring power DO NOT exceed the maximum turn.
The spring power has been reset on 0 turns in factory.

IMPORTANT: When door closer is set to 5lbs to meet ADA compliance or ANSI A117.1 it may not close and latch the door every time the door closes.
PARALLEL ARM INSTALLATION

“=” Recommended mounting locations for meeting ADA compliance

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DIMENSIONS “A”</th>
<th>DIMENSIONS “B”</th>
<th>OPENING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inches</td>
<td>mm</td>
<td>inches</td>
</tr>
<tr>
<td>TDC 100</td>
<td>9-1/4</td>
<td>235</td>
<td>7-5/8</td>
</tr>
<tr>
<td></td>
<td>7-3/4</td>
<td>197</td>
<td>6-1/8</td>
</tr>
<tr>
<td></td>
<td>5-3/4</td>
<td>146</td>
<td>4-1/8</td>
</tr>
</tbody>
</table>

- RIGHT HAND DOOR ILLUSTRATED
  SAME DIMENSIONS APPLY TO LEFT HAND DOOR
- MEASURED FROM HINGE PIN
  DIMENSIONS ARE IN INCHES
- DO NOT SCALE DRAWING

INSTALLATION INSTRUCTIONS
1. SELECT DEGREE OF DOOR OPENING. USE DIMENSIONS SHOWN IN CHART AND ILLUSTRATION ABOVE TO MARK LOCATIONS OF MOUNTING SCREWS ON DOOR & FRAME THEN PREPARE HOLES.
2. ATTACH CLOSER TO DOOR WITH SPEED REGULATING VALVES AWAY FROM HINGE.
3. ATTACH PA PLATE TO TOP FRAME AS SHOWN.
4. REMOVE FOOT FROM FOREARM AND DISCARD.
5. USING AN ADJUSTABLE WRENCH ROTATE PINION 45° TOWARD HINGE EDGE OF DOOR TO ALIGN MAIN ARM LETTER “B” (RIGHT HAND DOOR) OR LETTER “A” (LEFT HAND DOOR) WITH PINION FLAT. THEN FASTEN WITH ARM SCREW.
6. FASTEN FOREARM TO PA PLATE USING SCREW REMOVED FROM FOOT IN STEP 4 AND PA SHOE WASHER INCLUDED IN SCREW PACK.
7. ADJUST FOREARM LENGTH TO SET ARM ELBOW ABOUT 1-1/2” (38mm) FROM DOOR WHEN CONNECTED TO MAIN ARM. USE WASHER AND SCREW PROVIDED TO SECURE PIVOT CONNECTION. TIGHTEN LOCKNUT.
8. SNAP PINION CAP OVER SPINDLE AT BOTTOM.
9. ADJUST CLOSER.

IMPORTANT: When door closer is set to 5lbs to meet ADA compliance or ANSI A117.1 it may not close and latch the door every time the door closes.