TDC-300 Door Closer Installation Instructions
Non Hold Open - Multi Size 1-6

CAUTION
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.

Regular Arm Installation
closer mounts on hinge (pull) side of door
See page 3.
closer cover not shown

Left hand door-LH
Right hand reverse-RHR
Right hand door-RH
Left hand reverse-LHR

Top Jamb Installation
closer mounts on frame face on opposite hinge (push) side of door
See page 4.
closer cover not shown

Left hand door-LH
Right hand reverse-RHR
Right hand door-RH
Left hand reverse-LHR

parallel Arm Installation
closer mounts on opposite to hinge (push) side of door
See page 5.
closer cover not shown

Left hand door-LH
Right hand reverse-RHR
Right hand door-RH
Left hand reverse-LHR
Components:

- Standard Closer
- Closer Arm
- Main Arm Screw
- Plastic Cover
- Through Bolt and Screw
- Screws Package
- Parallel Arm Plate

- It is recommended that the door be hung on ball bearing type hinges so door swings freely.
- A separate door stop (supplied by others) is recommended to prevent damage to the door closer, closer arm, or to the door, frame or adjacent walls.
- Door and frame must be properly reinforced or through bolts used to prevent the mounting screws from pulling out.

<table>
<thead>
<tr>
<th>Preparation for Fasteners</th>
<th>Door or Frame</th>
<th>Drill-Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fasteners</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Self Drilling/Tapping</td>
<td>Hollow Metal or Aluminum</td>
<td>No drill required</td>
</tr>
<tr>
<td>Machine Screw</td>
<td>Wood (see note)</td>
<td>3/16&quot; pilot hole</td>
</tr>
<tr>
<td>1/4&quot;-20 Machine Screw</td>
<td>Hollow Metal</td>
<td>Drill #7(0.201&quot; dia.) &amp; Tap 1/4&quot;-20</td>
</tr>
<tr>
<td>1/4&quot;-20 Machine Screw used with Through Bolt</td>
<td>Hollow Metal or Aluminum</td>
<td>9/32&quot; drill closer side &amp; 3/8&quot; drill opposite side</td>
</tr>
<tr>
<td>Wood Screw</td>
<td>Wood</td>
<td>3/16&quot; pilot hole</td>
</tr>
</tbody>
</table>

NOTE: Wood doors/frames must have a pilot hole drilled when using Self Drilling/Tapping screws.
Installation Instructions

Regular Arm Template

- Hinge or pivot

Installation sequence

- Select degree of opening and use dimensions shown to locate 4 holes on door for closer body and 2 holes on frame face for arm shoe. For application that are different from above, a separate template will be required.

- Prepare door and frame for fasteners. See "Preparation for Fasteners", Figure 2, Page 2.

- Before installing closer body...set spring power for closer using Power adjustment chart, below right.

- Install closer on door with speed regulating valves toward the hinge.

- Remove forearm screw from adjusting rod and disassemble arm. See Figure 1, Fasten arm shoe (with rod) to frame face.

- Mount main arm onto closer pinion shaft, aligning arm mark "S" with pinion flat. Secure with main arm screw.

- Reassemble arm. Adjust forearm length so that it will be perpendicular (at a 90° angle) to the door face. Secure with forearm screw.

- Adjust closer (see page 6) and install cover.

Power Adjustment Chart

<table>
<thead>
<tr>
<th>door size</th>
<th>Full clockwise turns of closer power adjustment nut (from &quot;0&quot; turns)</th>
</tr>
</thead>
<tbody>
<tr>
<td>inches</td>
<td>interior door</td>
</tr>
<tr>
<td>24&quot;-30&quot;</td>
<td>-7</td>
</tr>
<tr>
<td>30&quot;-34&quot;</td>
<td>-3</td>
</tr>
<tr>
<td>34&quot;-38&quot;</td>
<td>0</td>
</tr>
<tr>
<td>38&quot;-48&quot;</td>
<td>4</td>
</tr>
</tbody>
</table>

NOTE: Maximum of 20 turns (360°) of power adjustment nut. Closer is shipped set at 7 turns from the factory.

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.
Installation Instructions

### Top Jamb Template

- **Hinge or pivot**

**Installation sequence**

- Select degree of opening and use dimensions shown to locate 4 holes on frame face for closer body and 2 holes on door for arm shoe. For application that are different form above, a separate template will be required.

- Prepare door and frame for fasteners. See "Preparation for Fasteners", Figure 2, Page 2.

- Before installing closer body... set spring power for closer using Power adjustment chart, below right.

- Install closer on door with speed regulating valves toward the hinge.

- Remove forearm screw from adjusting rod and disassemble arm. See Figure 1, Fasten arm shoe (with rod) to frame face.

- Mount main arm onto closer pinion shaft, aligning arm mark "S" with pinion flat. Secure with main arm screw.

- Reassemble arm. Adjust forearm length so that it will be perpendicular (at a 90° angle) to the door face. Secure with forearm screw.

- Adjust closer (see page 6) and install cover.

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**Power Adjustment Chart**

<table>
<thead>
<tr>
<th>door size inches</th>
<th>24&quot;-30&quot;</th>
<th>30&quot;-34&quot;</th>
<th>34&quot;-38&quot;</th>
<th>38&quot;-48&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full clockwise turns of closer power adjustment nut (from &quot;O&quot; turns)</td>
<td>-7</td>
<td>-3</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Note: Maximum of 20 turns (360°) of power adjustment nut. Closer is shipped set at 7 turns from the factory.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**To increase power**

Turn clockwise 8 turns maximum

**To decrease power**

Turn counterclockwise 4

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**Recommended mounting locations for meeting ADA compliance**

- Dimensions **A**
- Opening
  - 7-1/2" TO 100°
  - 6" TO 130°
  - 4-1/2" TO 180°

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**Right hand door shown**

Dimensions are in inches

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**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.
Installation Instructions

Parallel Arm Template

Installation sequence

• Select degree of opening and use dimensions shown to locate 4 holes on door for closer body and 4 holes on underside of frame for PA plate. For application that are different from above, a separate template will be required.

• Prepare door and frame for fasteners. See "Preparation for Fasteners", Figure 2, Page 2.

• Before installing closer body.....set spring power for closer using Power adjustment chart, below.

• Install closer on door with power adjustment nut toward the hinge.

• Mount soffit plate to frame. Remove forearm screw from adjusting rod (See Figure 1) and attach adjusting rod.

• Install main arm on pinion shaft....see main arm installation instructions below.

• Reassemble arm. Preload is accomplished by adjusting forearm length so that it will set arm elbow about 1-1/2"(38mm) from the door face when connected to the main arm. Secure with forearm screw.

• Adjust closer (see page 6) and install cover.

Main Arm Installation Instructions

Use adjustable wrench to rotate spindle 45° counter-clockwise for right hand door or clockwise for left hand door. Place main arm on spindle so that the "R" (Right hand door) or "L" (Left hand door) lines up with the spindle flat. Secure main arm and spindle by tightening spindle bolt.

Power Adjustment Chart

<table>
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<tr>
<th>door size</th>
<th>Full clockwise turns of closer power adjustment nut (from &quot;0&quot; turns)</th>
</tr>
</thead>
<tbody>
<tr>
<td>inches</td>
<td>316 series only</td>
</tr>
<tr>
<td>24&quot;-30&quot;</td>
<td>-4 0</td>
</tr>
<tr>
<td>30&quot;-34&quot;</td>
<td>0 5</td>
</tr>
<tr>
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<td>6 10</td>
</tr>
</tbody>
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NOTE: Maximum of 20 turns (360°) of power adjustment Nut. Closer is shipped set at 7 turns from the 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.
Unit adjustment

Closing speed controls (figure 1 and 2)
- Valve "S" controls sweep range
- Valve "L" controls latch range

Opening door control (figure 4)
- Backcheck ("B") Valve controls the hydraulic resistance to door opening. NEVER close this valve completely- it is not to provide a positive stop
- Backcheck position ("P") valve controls the door angle where backcheck cushioning starts. Valve normally closed.

Closing power control (Figure 3)
- Adjust as required (see charts on pages 3, 4, & 5)

Closing power control
- To increase power
  Turn clockwise 8 turns maximum
- To decrease power
  Turn counter clockwise

Power Adjustment Nut