Installation Instructions based on Application and Arm type

Standard Mounting Application - 
H arm
For Standard Application - the Door Closer is mounted on the hinge side of door (see page 2)

Parallel Arm Application - 
PH9 Arm
For Parallel Arm Application - the Door Closer is mounted on the stop side of door (see page 4)

Top Jamb Application - 
H, HZ & HZA Arm
For Top Jamb Application - the Door Closer is mounted on the frame on the stop side of the door (see page 6)

IMPORTANT NOTICE
PRE-DRILL 3/32" HOLES FOR SELF-TAPPING SCREWS OR TAP #12-24 FOR MACHINE SCREWS
A1) Select closer mounting position based on the maximum door opening, as listed below
Note: For ADA applications, select the 160° position

B1) Prep door and frame
Note: 3/32" pilot holes are required when Self Tapping Screws are being used
Note: If machine screws are being used, use a drill #16 (.177) and a #12-24 tap
B2) Install closer body onto the door
B3) Install Foot & Rod Assembly onto the frames

C1) Install main arm on the closer with the index mark on the spindle aligning with the # 2 on the main arm (as shown)

D) Attach hold open foot to frame with adjusting nut facing down for left hand door or up for right hand door, as illustrated below
STANDARD APPLICATION

E1) Opening the door slightly, slide rod into swivel arm and then close the door
E2) With the door closed, position the swivel arm so that it is 90° to the door surface
E3) Tighten the arm screw securely

Accessories Information

1430-J Cover Plate
May be used when closer is mounted on a narrow rail to improve appearance when closer is viewed thru glass

1431-W corner bracket closer is mounted on bracket which is attached to door jamb on stop side of door
Use this application for exterior doors to keep the closer inside of building; Also may be used to obtain full 180° door opening

Mortise nuts for bolting thru the door are furnished when ordered

Adjust closer as required (See page 8 for details).
PARALLEL APPLICATION

A1) Select closer mounting position based on the maximum door opening, as listed below
Note: For ADA applications, select the 180° position

B1) Prep Door and Frame
Note: 3/32" pilot holes are required when Self Tapping Screws are being used.
Note: If machine screws are being used, use a drill #16 (177) and a #12-24 tap.

B2) Install closer body onto the door
B3) Install Foot Bracket & Rod Assembly onto the frame

<table>
<thead>
<tr>
<th>MAXIMUM DOOR OPENING</th>
<th>DIM. A</th>
<th>DIM. B</th>
</tr>
</thead>
<tbody>
<tr>
<td>95°</td>
<td>6 1/2&quot;</td>
<td>12 3/4&quot;</td>
</tr>
<tr>
<td>120°</td>
<td>4&quot;</td>
<td>10 1/2&quot;</td>
</tr>
<tr>
<td>180°</td>
<td>1 1/4&quot;</td>
<td>7 3/4&quot;</td>
</tr>
</tbody>
</table>

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PAGE 4
INSTRUCTIONS FOR INSTALLING PARALLEL ARM APPLICATION

C

Attach hold open foot to frame with adjusting nut facing down for left hand door or up for right hand door, as illustrated below.

D1) Install main arm on the closer with the index mark on spindle aligned with the number on the arm

Note: Left Hand Doors - align index mark with the # 4 on the main arm (as shown).

Note: Right Hand Doors - align index mark with the # 5 on the main arm (as shown).

D2) This requires the spindle to be rotated

D3) Rotate the spindle on the bottom of the closer to align index mark with the required number on the arm

E1) Opening the door slightly, slide rod into swivel arm and then close the door

E2) With the door in the closed position, swivel the arm so that the pivot is 1-1/2” off the door surface (as shown below)

E3) Tighten the arm screw securely

F

Adjust closer as required (See page 8 for details)

ACCESSORIES INFORMATION

1430-D DROP BRACKET
CLOSER IS MOUNTED ON PLATE WHEN TOP RAIL IS TOO NARROW

1430-J COVER PLATE
May be used when closer is mounted on a narrow rail to improve appearance when closer is viewed through glass

MORTISE NUTS FOR BOLTING THRU THE DOOR ARE FURNISHED WHEN ORDERED

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A1) Select closer mounting position based on Reveal Depth as listed below.

B1) Locate and mark hole locations.

Note: 3/32" pilot holes are required when Self Tapping Screws are being used.
Note: If machine screws are being used, use a drill #16 (.177) and a #12-24 tap.

C1) Install closer body onto the frame.
C2) Install the Foot & Rod Assembly onto the door.

<table>
<thead>
<tr>
<th>ARM ASSEMBLY TYPE</th>
<th>REVEAL DEPTH</th>
<th>DIM. A</th>
<th>MAXIMUM DOOR OPENING</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;O&quot; ARM</td>
<td>0&quot; TO 2&quot;</td>
<td>5 3/4&quot;</td>
<td>80° - 180°</td>
</tr>
<tr>
<td>&quot;OZ&quot; ARM</td>
<td>2 1/8&quot; TO 5&quot;</td>
<td>6 1/2&quot;</td>
<td>80° - 180°</td>
</tr>
<tr>
<td>&quot;OZA&quot; ARM</td>
<td>5 1/8&quot; TO 8&quot;</td>
<td>7 1/4&quot;</td>
<td>80° - 140°</td>
</tr>
</tbody>
</table>

**IF BUTT, FRAME AND WALL CONDITIONS PERMIT, DOOR WILL OPEN 180°**

LEFT HAND DOOR ILLUSTRATED. SAME DIMENSIONS APPLY FOR RIGHT HAND DOOR. MEASURE FROM HINGE PIVOT.

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D1) Install main arm on the closer with the index mark on spindle aligned with the number on the arm

Note: Left Hand Doors - align index mark with the # 3 on the main arm (as shown).
Note: Right Hand Doors - align index mark with the # 1 on the main arm (as shown).

E) Attach hold open foot to frame with adjusting nut facing down for left hand door or up for right hand door as illustrated below.

F1) Opening the door slightly, slide rod into swivel arm and then close the door
F2) With the door closed, position the main arm so it is 90° to the door surface
F3) Tighten the arm screw securely

G) Adjust closer as required (See page 8 for details).
Minimum recommended door closing time is 6 Seconds for doors opened to 90 degrees.
Use 1/8" hex (Allen) wrench to adjust valves as needed.

Closing and latching speeds:
Turn valves clockwise to slow down or counterclockwise to speed up door movement.

Backcheck:
To regulate the intensity of back check action, turn valve clockwise to increase or counterclockwise to decrease checking.
CAUTION: Set valve for slight cushioning effect; closer can be damaged if the checking action is too abrupt. Never use the backcheck as a door stop. Always use a door stop to stop the door.

Delayed action feature (Optional feature on some models):
“Delayed action” provides slow door closing through the delayed action range. Turn valve clockwise to slow down or counterclockwise to speed up door movement.

Adjusting door to close due to high draft conditions may exceed ADA standards. Consult local ordinances when fire doors are involved.

<table>
<thead>
<tr>
<th>DOOR WIDTH (INCHES)</th>
<th>1431 DOOR CLOSER</th>
</tr>
</thead>
<tbody>
<tr>
<td>24-30</td>
<td>TURN nut 1-3</td>
</tr>
<tr>
<td>30-36</td>
<td>FACTORY SET</td>
</tr>
<tr>
<td>36-42</td>
<td>TURN nut 1-4</td>
</tr>
<tr>
<td>42-48</td>
<td>TURN nut 7-9</td>
</tr>
</tbody>
</table>

Adjustment hold open arm
Slight tightening or loosening of hold open nut changes holding position of door.
Note: To protect wall, trim and closer, use a door stop located 10” beyond hold open position but not beyond the max. door opening shown on instructions.

INSTALL COVER AS FOLLOWS:
FOR STANDARD AND PARALLEL ARM APPLICATION
- Screw short cover screw (#8-32 X 5/16”) into top of case approximately 2 turns
- Assemble plastic support and long cover screw (#8-32 X 1 1/4”) into bottom of case approximately 2 turns
- Hold support against case (approximately 2 turns) between flange and screw head
- Position cover on closer and tighten screws

FOR TOP JAMB APPLICATION
- Assemble plastic support and long cover screw (#8-32 X 1 1/4”) into top of case approximately 2 turns
- Screw short cover screw (#8-32 X 5/16”) into bottom of case approximately 2 turns
- Slide cover into gap between flange and screw head. Position cover on closer and tighten screws