BEFORE STARTING THE INSTALLATION

Compare the requirements of the installation with the specifications below, to make sure the correct model of CLOSER will be installed.

<table>
<thead>
<tr>
<th>Model</th>
<th>UH4013 / UH4014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>UL Listed</td>
</tr>
<tr>
<td>Maximum door width</td>
<td>38&quot;</td>
</tr>
<tr>
<td>Maximum door weight</td>
<td>140 lb.</td>
</tr>
<tr>
<td>Maximum open angle body mounted on door</td>
<td>120° - 155°</td>
</tr>
</tbody>
</table>

1. PARTS AND ASSEMBLY DIAGRAM

Tools needed for installation: Hammer, #2 Phillips Head Screwdriver, 1/8” and 5/32” drill bits, Punch, Drill & Tape. Check that all parts shown in the parts list and in the illustration are present.

Match screw size and type to hardware drawing.

<table>
<thead>
<tr>
<th>Ref No.</th>
<th>Name of Parts</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Main Arm</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Forearm and Link Arm Shoe</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Main Arm Screw (Hex Head), Lock Washer &amp; Washers</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>Forearm Screw (Pan Head), Lock Washer &amp; Washers</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>Phillips Oval Head Wood Screw #10 x 1-1/4&quot;</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>Phillips Oval Head Self-Tapping Screw 10-32 x 3/4&quot;</td>
<td>6</td>
</tr>
<tr>
<td>8</td>
<td>Body Cover</td>
<td>1</td>
</tr>
</tbody>
</table>

FOR WOOD

FOR ALUMINUM OR STEEL

2. LOCATION OF CLOSER ON THE DOOR

Determine whether the door is left or right hand using the following illustrations. Remember that the CLOSER is always mounted inside the building near the hinge edge of the door.

2A. INWARD OPENING DOOR

This illustration shows the mounting for inward opening doors, as seen from inside the building.

2B. OUTWARD OPENING DOOR

This illustration shows the mounting for outward opening doors, as seen from inside the building.

3. INSTALLATION PROCEDURE

Perform each of the following seven steps in sequence.

3A. POSITIONING TEMPLATE

Templates to help position the CLOSER correctly are provided on an enclosed sheet. BE SURE TO USE CORRECT TEMPLATE.

For installation of model UH4013 or UH4014, decide the maximum opening angle for the door (120° or 155°) before cutting out the template. The template must be cut differently for each angle.
3B. **MARKING HOLE LOCATION.**
Use a hammer and punch to mark the center of each screw hole then remove the template.

3C. **PREPARING SCREW START HOLES**
- **NOTE:** Numbers in parentheses ( ) indicate the item number shown in Parts and Assembly Diagram on the front of this sheet.
  a. **Wood Door**
     - Soft Wood – use a 1/8" drill bit and drill four holes for the closer body (1) and two holes for the forearm and shoe assembly (3) 1-1/4" deep.
     - Hard Wood – use a 5/32" drill bit and drill four holes for the closer body (1) and two holes for the forearm and shoe assembly (3) 1-1/4" deep.
  b. **Aluminum or Steel Door**
     - Use a drill with a 5/32" bit and drill four holes for the body (1) and two holes for the forearm shoe (3) approximately 3/4" deep.

3D. **ATTACHING MAIN ARM TO BODY**
- **NOTE:** Speed adjustment valve on closer body must be positioned towards the door hinge.
- Place main arm onto the TOP spindle of the closer body for an inward opening door and attach with hex screw, lock washer and flat washer.

3E. **ATTACHING BODY**
Position closer body with main arm attached over the drilled holes on the door. The spindle with main arm attached must be on the top. Fasten closer to door using screws for either wood or aluminum doors.

3F. **ATTACHING FOREARM AND SHOE ASSEMBLY**
Position the forearm shoe over holes on the top door jamb and fasten using screws for either wood or aluminum door jambs.

3G. **ADJUSTING LENGTH OF FOREARM**
Adjust length of forearm to position the forearm at a right angle to frame, when connected to main arm at the elbow. Use washer and screw (4) provided to secure the pivot connection. Tighten forearm locknut.

- **Important:** When door is fully closed and the forearm is at a 90 degree angle to the door, this position creates pressure, which forces the door closed.

4. **SPEED ADJUSTMENT**
Closer speed is factory set. If a different speed is desired, both sweep and latch speed can be adjusted by a single screw adjustment.

4A. **SWEEP SPEED ADJUSTMENT**
Turn speed adjustment screw clockwise (1 turn) for a slower speed and counter clockwise (1 turn) for a faster speed. Do not exceed two turns in either direction.

4B. **LATCHING SPEED ADJUSTMENT**
For fastest latching speed, the slot in the adjustment screw is parallel to the door. For a slower latching speed, the slot in the adjustment screw is perpendicular to the door.

5. **ATTACH COVER**
Slide cover (6) onto body (1).

6. **INITIAL OPENING POWER ADJUSTMENT**
Adjusting foot for opening power (see illustration on right)

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