FOR USE ON 1-3/4" (45 mm) THICK DOORS

Tools required for new installation:
(1) Adjustable wrench
(1) Phillips head screw driver
(2) 2-1/8" (54 mm) hole saw
(1) 1" (25.4 mm) drill bit
(1) 5/16" (8 mm) drill bit
(1) Pencil
(1) Chisel

MOUNTING STYLES

| Handles Down | Handles Up | Handles Mixed | Handles Mixed |

| Handles Horizontal (5" Backset) |

COMPONENTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>Cover</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
<td>Cover screws</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>#10 Mounting screws</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>Pull handle assembly</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>Spring latch</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>ASA strike</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>T-strike (optional)</td>
</tr>
<tr>
<td>8</td>
<td>1</td>
<td>Push handle assembly</td>
</tr>
<tr>
<td>9</td>
<td>4</td>
<td>Mounting washers</td>
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<tr>
<td>10</td>
<td>4</td>
<td>Mounting nuts</td>
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<tr>
<td>11</td>
<td>2</td>
<td>#12 mounting screws</td>
</tr>
<tr>
<td>12</td>
<td>4</td>
<td>#8 mounting screws</td>
</tr>
</tbody>
</table>
### 1. MARK CENTER LINES ON DOOR

**A.** Use a pencil to sketch the centerlines for the backset required. These sketch lines will be the guide for applying templates.

![Sketch Centerlines Using Backset: 2-3/4" (70) or 5" (127)](image)

*45-3/4" (116.2 cm) from finished floor unless directed otherwise.*

### 2. APPLY TEMPLATES & MARK HOLES

**A.** Tape template #1 to face of door and template #2 to edge of door. Line up template centerlines with the sketched centerlines on door.

![Vertical Mounting](image)  
![Horizontal Mounting](image)

### 3. DRILL HOLES

**PILOT HOLES FOR LATCH SCREWS (SEE TEMPLATE)**

- **Φ 5/16" [7.9] 4 PLACES THRU DOOR**
- **Φ 2-1/8" [54] THRU DOOR**
- **Φ 1" [25.4] DRILL THRU TO Φ 2-1/8" [54] HOLE**

### 4. MORTISE LATCH

**A.** Chisel 5/32" [4] deep or until latch is flush with door edge.

![Mortising Latch](image)

### 5. INSTALL LATCH

**A.** Insert latch so bolt bevel faces direction of door closing. Tighten latch to door using (2) #8 x 3/4" combo screws.

![Installing Latch](image)

*Numbers in [ ] are millimeters*
### 6. MARK OUTLINE OF STRIKE

**A.** Mark location of holes as well as mortise area for latchbolt.

- **CENTERLINE IS THE SAME AS THE CENTERLINE OF THE LATCH BOLT**
- **CENTERLINE CAN BE FOUND BY MEASURING ONE HALF THE DOOR THICKNESS PLUS 1/8" [3.2] FROM DOOR STOP**
- **PLACE STRIKE UP AGAINST FRAME SO HOLES LINE UP WITH THE MARKED CENTERLINE**
- **MARK OUTLINE OF STRIKE**

### 7. DRILL AND MORTISE FRAME FOR STRIKE

**HOLE PREP:**
- **DRILL (2) 5/32" [4] PILOT HOLES FOR #12 COMBO SCREWS.**

**LATCHBOLT MORTISE PREP:**
- **CHISEL AWAY EXCESS WOOD ON THE SIDES TO MAKE ROOM FOR LATCHBOLT.**

**STRIKE MORTISE PREP:**
- **USE A CHISEL AND MORTISE 3/32" [2.4] DEEP SO STRIKE SITS FLUSH WITH FRAME.**

### 8. INSTALL STRIKE

**A.** Install strike using two #12 screws.

### 9. POSITION CAMS

**A.** Rotate the cam of each handle to look like the pictures shown below. This is critical for proper functioning of the latch.

### 10. INSTALL HANDLE ASSEMBLIES

**A.** Install push handle assembly onto door by inserting **cam shaft** into square hole of spring latch.

**B.** Insert four #10 screws through the **push handle mounting bracket** and corresponding drilled holes in door.

**C.** Install push handle assembly on other side of door, mating the **pull handle cam** with the square hole in the latch.

**D.** Insert #10 screws through **pull handle mounting bracket**.

**E.** Install washers and nuts on all four screws (do not tighten down nuts at this time).

**F.** Check that both handles will independently retract latchbolt.

**G.** Use a wrench to tighten nuts down so that two assemblies are tight to door.

### 11. INSTALL COVERS

**A.** Install cover on pull handle assembly and line up cover holes with holes of mounting bracket. Tighten cover using screws provided.

**B.** Repeat step A for push handle cover.