Devices covered by these instructions:
XP98/XP99 Rim Exit Device
XP98-F/XP99-F (Fire) Rim Exit Device
CDXP98/CDXP99 (Cylinder Dogging) Rim Exit Device

Please give these instructions to building owner after device is installed

Special tools needed:
Taps: #10-24, 1/4"-20
Drill bits: #7, #25, 1/8", 1/4", 5/16", 3/8", 13/32"

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<th>SCREW CHART</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td><strong>909 Strike</strong></td>
</tr>
<tr>
<td></td>
<td>1/4&quot;-20 X 3/4&quot; (3 qty) ———— Metal frame</td>
</tr>
<tr>
<td></td>
<td>#14 X 1-1/2&quot; Wood screw (3 qty) ———— Wood frame</td>
</tr>
<tr>
<td>B</td>
<td><strong>954 Strike</strong></td>
</tr>
<tr>
<td></td>
<td>1/4&quot;-20 X 3/4&quot; (6 qty) ———— Metal frame</td>
</tr>
<tr>
<td>C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>#10-24 X 1&quot; (4 qty) ———— Surface mount or Sex bolts (1-3/4&quot; door)</td>
</tr>
<tr>
<td></td>
<td>#10-24 X 1-1/2&quot; (4 qty) ———— Sex bolts (2-1/4&quot; door)</td>
</tr>
<tr>
<td></td>
<td>#10 X 1-1/4&quot; Wood screw (4 qty) ———— Surface mount (wood)</td>
</tr>
<tr>
<td></td>
<td>- Packaged with trim -</td>
</tr>
<tr>
<td></td>
<td>#10-24 X 1-3/8&quot; (4 qty) ———— 990 Trims (1-3/4&quot; door)</td>
</tr>
<tr>
<td></td>
<td>#10-24 X 1-7/8&quot; (4 qty) ———— 990 Trims (2-1/4&quot; door)</td>
</tr>
<tr>
<td>D</td>
<td></td>
</tr>
<tr>
<td></td>
<td>#10-24 X 3/4&quot; (2 qty) ———— Surface mount or Sex bolts (1-3/4&quot; door)</td>
</tr>
<tr>
<td></td>
<td>#10-24 X 1-1/8&quot; (2 qty) ———— Sex bolts (2-1/4&quot; door)</td>
</tr>
<tr>
<td></td>
<td>#10 X 1-1/4&quot; Wood screw (2 qty) ———— Surface mount (wood)</td>
</tr>
<tr>
<td>E</td>
<td></td>
</tr>
<tr>
<td></td>
<td>#10-16 X 3/8&quot; Thread cutting (2 qty) ———— End cap screw</td>
</tr>
<tr>
<td>F</td>
<td></td>
</tr>
<tr>
<td></td>
<td>#10-24 X 1&quot; (2 qty) ———— Surface mount (metal)</td>
</tr>
<tr>
<td></td>
<td>#10 X 1-1/4&quot; Wood screw (2 qty) ———— Surface mount (wood)</td>
</tr>
<tr>
<td>G</td>
<td></td>
</tr>
<tr>
<td></td>
<td>#8-18 X 3/8&quot; Thread cutting (4 qty) ———— Cover screw</td>
</tr>
</tbody>
</table>
PREPARATION CHART

Go to “Device Installation” on next page before using this preparation chart

*End cap bracket - 2 holes

<table>
<thead>
<tr>
<th>Surface mount</th>
<th>Sex bolts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal</td>
<td>#25 Drill #10-24 tap</td>
</tr>
<tr>
<td>Wood</td>
<td>1/8&quot; Drill pilot 1&quot; deep</td>
</tr>
</tbody>
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<th>Surface mount</th>
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<tr>
<td>Metal</td>
<td>1/4&quot; Drill (device side)</td>
</tr>
<tr>
<td>Wood</td>
<td>13/32&quot; Drill thru</td>
</tr>
</tbody>
</table>

*Prepare holes after center case is mounted and device is leveled

Center case - 4 holes

<table>
<thead>
<tr>
<th>Surface mount</th>
<th>Sex bolts or 990 trims</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal</td>
<td>#25 Drill #10-24 tap</td>
</tr>
<tr>
<td>Wood</td>
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<td>Metal</td>
<td>1/4&quot; Drill (device side)</td>
</tr>
<tr>
<td>Wood</td>
<td>13/32&quot; Drill thru</td>
</tr>
</tbody>
</table>

Center case - 2 support holes

<table>
<thead>
<tr>
<th>Surface mount</th>
<th>Sex bolts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal</td>
<td>#25 Drill #10-24 tap</td>
</tr>
<tr>
<td>Wood</td>
<td>1/8&quot; Drill pilot 1&quot; deep</td>
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<th>Surface mount</th>
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<tbody>
<tr>
<td>Metal</td>
<td>1/4&quot; Drill (device side)</td>
</tr>
<tr>
<td>Wood</td>
<td>13/32&quot; Drill thru</td>
</tr>
</tbody>
</table>

For XP98-F/XP99-F (fire) wood door

<table>
<thead>
<tr>
<th>Surface mount</th>
<th>Sex bolts (2) required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood or composite</td>
<td>#825 Sex bolts (2) required</td>
</tr>
<tr>
<td>Wood</td>
<td>3/8&quot; Drill thru</td>
</tr>
<tr>
<td>Wood</td>
<td>5/8&quot; Spade drill</td>
</tr>
</tbody>
</table>

Outside cylinder applications:
Mark with template and cut-out:
- **Metal door** (cut device side)
- **Wood door** (cut thru)

For trim applications with working lever, thumbpiece, or knob:
Mark with template and cut out:
- **Metal door** (cut device side)
- **Wood door** (cut thru)

Door cut-outs

RHR shown (LHR opposite)

CL

X

X

PREPARATION CHART

Go to “Device Installation” on next page before using this preparation chart
DEVICE INSTALLATION

Note: For retrofit applications where an existing 98/99 Rim device is being replaced, see “Retrofit Installation” on page 7.

1. Draw horizontal device and strike center line ( ).

2. Align strike on  and mark the two outer slots.

3. Prepare holes thru center of 2 outer slots and install screws.

4. Position template against strike and on  and mark door.

See “Screw Chart” on page 2 for screw type and size.
5  Prepare lock side of door for device and trim.

See “Preparation Chart” on page 3 for drill, tap, and cut-out information.

If necessary, remove NL drive screw.

6  If Necessary, Remove NL Drive Screw

NL drive screw
Factory installed on back of center case

With NL drive screw removed, key locks and unlocks lever, knob, or thumb piece. For trims listed below, REMOVE NL drive screw.

996L 696TP 990TP
996K 697TP

With NL drive screw installed, key retracts latch bolt. DO NOT remove NL drive screw for the following applications:

- NL, EO, DT trims and 98/99-2 double cylinder devices (i.e. TP-2, L-2, and K-2).
- *996L-BE  *E996L  *696TP-BE  *990TP-BE
- *996K-BE  *E996L-BE  *697TP-BE

*If trim being installed is “BE” (i.e. 996L-BE), trim lock tumbler on back of device must be in UP position before device is installed. This allows trim to be unlocked at all times.

7  Secure device center case to door and install trim (if using).

1-1/2” Minimum clearance (with end cap removed) if device is too long for door, see “Cut Device” on back cover.

Correct Orientation (RHR shown)

Incorrect Orientation

Trim lock tumbler in UP position

If necessary, remove drive screw and rotate cam until trim lock tumbler is in UP position, then reinstall drive screw 360˚

8  Install mounting bracket and end cap.

Mark and prepare 2 mounting holes

See “Preparation Chart” on page 3 for drill and tap sizes.

Secure mounting bracket and end cap
9 IMPORTANT!
Verify gap between latch bolt and strike and adjust strike as needed.

Strike MUST have some gap

909 Strike

#7 Drill
1/4"-20 tap

Metal
Locate hole at center of slot

954 Strike

#7 Drill
1/4"-20 tap
2 places

10 When properly adjusted, secure strike with additional screw(s).

A. With door closed, push against door without touching device.
   Device should NOT allow door to open.

B. With door closed, push device pushbar.
   Device should allow door to open.

C. If device does not function as described, adjust strike position and continue operational check until device functions as described above.

11 IMPORTANT!
Perform operational check.

12 Note about the XP latch operation

The XP latch bolt operates differently from a standard latch bolt. When the pushbar is depressed, the latch bolt does not retract. This is normal because the XP latch bolt can swivel in both directions.
1. Remove existing exit device and old strike from door.

2. Install new 909 strike to replace 299/299F strike.
   A. Re-drill and tap existing center strike hole for 1/4"-20.
   B. Attach strike to frame with new center screw and locking plate and position strike against door.
   C. Mark and prepare 2 outer holes for 1/4"-20 and install screws.

3. Mark and prepare 2 new support holes in door.
   A. Align plastic template with existing holes as shown.
   B. Mark 2 new holes as shown.
   C. Prepare 2 new holes per chart below:

<table>
<thead>
<tr>
<th>Material</th>
<th>#25 Drill</th>
<th>#10-24 tap</th>
<th>1/8&quot; Drill pilot 1&quot; deep</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal</td>
<td>#25 Drill</td>
<td>#10-24 tap</td>
<td>1/8&quot; Drill pilot 1&quot; deep</td>
</tr>
<tr>
<td>Wood</td>
<td>#25 Drill</td>
<td>#10-24 tap</td>
<td>1/8&quot; Drill pilot 1&quot; deep</td>
</tr>
</tbody>
</table>

4. Match master cam function for new XP device to that of removed exit device.
   A. Inspect underside of old center case for master cam.
   B. If NL drive screw (shown below) has been removed, it must be removed from new XP center case as well.

   If NL drive screw is present in old center case, leave NL drive screw in new XP center case.

CAUTION

Old 299/299F or 499F strike cannot be used with XP98/99 device. Strike must be removed and replaced with new strike.

Old strike | Replace with
--- | ---
299/299F | 909
499F | 954*

*See page 11 for 954 installation

NOTE:
If plastic template will not align correctly with the 4 outer holes, bolt new XP exit device on door temporarily with the 4 screws and use it as a template to mark the 2 holes shown above.

Go to page 5-6 and continue device installation steps 7-10.
HEX DOGGING INFORMATION

To undog exit device:
Note: Panic devices are shipped dogged (pushbar down).
1. To undog device, place hex key in hole as shown and turn counterclockwise releasing pushbar.

To dog exit device:
Note: Dogging is recommended during times of high traffic through door.
1. Depress pushbar.
2. Place hex key in hole as shown and turn clockwise. Pushbar stays in down position.
1. Remove mortise cylinder cam and reinstall in reverse (Figure 1).

2. Insert key and rotate cam to install the cylinder to the cover plate (Figure 2).

3. Remove key to slide cover plate in position in the mechanism case.

**Figure 1**

**Dogging procedure**

1. Depress pushbar
2. Turn cylinder key clockwise approx. 1/8 turn for standard dogging

**Figure 2**
CUT DEVICE

1 Measure amount to cut off device.

- 1-1/2” minimum clearance (with endcap removed)
- Device aligned with mounting holes

Note
If 5/8” diameter wire access hole has been predrilled in door, cut device 5/16” from center of hole.

2 Tape and mark area being cut.

- Remove anti-rattle clip
- Tape

CUT DEVICE

- Cover plate (flush to end of channel)
- Pushbar

3 Cut device square.

- Cut device square and remove all burrs
- NOTE: Device must be cut square for proper end cap fit

4 Slide anti-rattle clip into device.

- 2” Minimum
- Anti-rattle clip

954 STRIKE INSTALLATION

1 Install strike hook along exit device C.

- #7 Drill 1/4”-20 tap 2 places

2 Mark 2 slotted holes for strike.

3 Prepare 2 holes and install 2 screws as shown.

- #7 Drill 1/4”-20 tap 2 places

- Strike body (against hook)