Devices covered by these instructions:
33/35A Rim Exit Device
CD33/35A Rim Exit Device
EL33/35A Rim Exit Device
SS33/35A Rim Exit Device

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Special tools needed:
5/64" hex wrench
#10-24 tap
Drill bits: #25, 1/8", 1/4", 5/16", 13/32"
## SCREW CHART

### A

<table>
<thead>
<tr>
<th>Screw</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4-20 x 1&quot;</td>
<td>Trim mount or sex bolts: (1-3/4&quot; door)</td>
</tr>
<tr>
<td>1/4-20 x 1-1/2&quot;</td>
<td>(2-1/4&quot; door)</td>
</tr>
</tbody>
</table>

### B

<table>
<thead>
<tr>
<th>Screw</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#10-24 X 1&quot;</td>
<td>Metal door surface mount (Yellow)</td>
</tr>
<tr>
<td>#10 X 1-1/4&quot;</td>
<td>Wood door surface mount</td>
</tr>
</tbody>
</table>

### C

<table>
<thead>
<tr>
<th>Screw</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#10-24 X 3/4&quot;</td>
<td>Surface mount or Sex bolts 1-3/4&quot; door (silver)</td>
</tr>
<tr>
<td>#10-24 X 1-1/8&quot;</td>
<td>Sex bolts 2-1/4&quot; door (silver)</td>
</tr>
</tbody>
</table>

### D

<table>
<thead>
<tr>
<th>Screw</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#10-16 X 3/8&quot;</td>
<td>Thread cutting End cap</td>
</tr>
</tbody>
</table>

### E

<table>
<thead>
<tr>
<th>Screw</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#10-12 x 10-24 x 1-1/4&quot; combination</td>
<td>Metal or wood frame</td>
</tr>
</tbody>
</table>

### F

<table>
<thead>
<tr>
<th>Screw</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#10-24 X 3/4&quot;</td>
<td>Metal frame</td>
</tr>
<tr>
<td>#10 X 1-1/2&quot; Wood screw</td>
<td>Wood frame</td>
</tr>
</tbody>
</table>

### G

<table>
<thead>
<tr>
<th>Screw</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#10-12 x 10-24 x 1-1/4&quot; combination</td>
<td>Metal or wood frame</td>
</tr>
</tbody>
</table>

### H

<table>
<thead>
<tr>
<th>Screw</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#8-18 x 3/8&quot; thread cutting</td>
<td>Center case cover</td>
</tr>
</tbody>
</table>
1. Draw device center line (C) on door and frame as shown.

2. Prepare frame for strike using paper templates.

   See pages 7 and 8 for strike templates and frame preparation dimensions.

3. Install strike using two screws only at this time.

   1439 Strike (standard)

   - Install strike 1/16" past door side of stop

   299 Strike

   1606 Strike

4. If using a 1439 strike, install wear strip. If not, go to step 5.

   A. Center wear strip on strike as shown.
   B. Mark and drill 1/8" dia. holes (4 places).
   C. Install wear strip with flat head drive rivets (4 places) from 1439 strike package.

*For double doors with a mullion and strike already installed, use existing strike center line.

*RHR shown (LHR opposite)
5 Tape template to door and mark door.

- Mark vertical line X-X for trim alignment
  - Note: Line X-X is a reference line on the paper template used for trim and exit device alignment. Line X-X shown here should correspond to line X-X in the trim installation instructions.

6 Prepare lock side of door for device and trim.

- See template for drill and cut-out information

7 Measure to determine length to cut device.

- 1-3/16” minimum clearance (with end cap removed)
- Device aligned with mounting holes

8 Cut device to length.

- Prepare device for cutting
  - Anti-rattle clip (remove while cutting, then replace after cutting)
  - Cover plate (flush to pushbar)
  - Pushbar

- Cut device square
  - Note: Device must be cut square for proper end cap fit

- 5/16”

Note: If 5/8” diameter wire access hole has been predrilled in door, cut device 5/16” from center of hole.
9 Install trim (if using) and secure device center case to door.

10 Install hinge stile mounting bracket.

11 Adjust strike with shim (if necessary) and secure strike.

12 Install 2 support screws, center case cover, and end cap.

299 - Add plate and middle screw
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.

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**Optional Equipment**

**CD (Cylinder Dogging)**

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**Dogging procedure**

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

Depress pushbar

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**Figure 1**

STD. mortise cylinder

Mortise cylinder cam

CD function conversion

**Figure 2**

Std. mortise cylinder

Offset toward pushbar

Dogging plate cover

Cylinder collar

Cylinder locating washer

Cylinder lock nut

Mechanism case
1439 Strike
Frame Preparation

RHR shown
(LHR opposite)

Metal
#25 Drill
#10-24 tap
1/8" Drill pilot
1" deep

Wood

1-9/16" to
to face of
door

7/8"

7/16"

7/16"

7/8"

7/8"

Blade stop
299 Strike Template

Cut paper along this line and place on door stop against edge of door (see picture below)

Template

Door edge

RHR

LHR

MetalWood

#25 Drill
#10-24 tap

1/8” Drill pilot
1” deep

1-1/16”

5/8”

1-1/16”
Line X-X is a reference line for trim and exit device alignment. Line X-X shown here should correspond to line X-X in the trim installation instructions.

**33/35A Rim device Template**

**Holes - 2 places**

**Metal**
- #25 drill inside
- #10-24 tap

**Wood**
- 1/8" diameter drill
- 1" deep pilot hole

Cut-out device side only
- 5/8" deep for wood door

Align this line with edge of strike or roller

1/4"

3/16"

7/32"

7/8"

19/32"

1/4" Radius

7/32"

7/8"

Holes - 2 places

**Metal**
- 5/16" drill inside
- 13/32" drill outside (sex bolts)
- 1/2" drill outside (trim)

**Wood**
- 13/32" drill thru (sex bolts)
- 1/2" drill thru (trim)
33/35A Rim device Template

Cut-out device side only 5/8” deep for wood door

Device

1/4”

3/16”

7/32”

7/8”

1-3/16”

3-1/8”

Holes - 2 places

Metal

#25 drill inside
#10-24 tap

Wood

1/8” diameter drill
1” deep pilot hole

5/16” drill inside
13/32” drill outside (sex bolts)
1/2” drill outside (trim)

Wood

13/32” drill thru (sex bolts)
1/2” drill thru (trim)

Align this line with edge of strike or roller

Line X-X is a reference line for trim and exit device alignment. Line X-X shown here should correspond to line X-X in the trim installation instructions.