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Dogging Key
(use to lock down pushbar)
<table>
<thead>
<tr>
<th>Subassembly</th>
<th>Screw</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>299 Strike, 499F Strike</td>
<td>#10-24 x ¾&quot; (19 mm)</td>
<td>Metal frame</td>
</tr>
<tr>
<td></td>
<td>#10 x 1⅛&quot; (38 mm) Wood screw</td>
<td>Wood frame</td>
</tr>
<tr>
<td><strong>B</strong></td>
<td>#10-24 x 1&quot; (25 mm)</td>
<td>Surface mount or Sex bolts 1¾&quot; (44 mm) door</td>
</tr>
<tr>
<td></td>
<td>#10-24 x 1½&quot; (38 mm)</td>
<td>Sex bolts, 2¼&quot; (57 mm) door</td>
</tr>
<tr>
<td></td>
<td>#10 x 1¼&quot; (32 mm) Wood screw</td>
<td>Surface mount (wood)</td>
</tr>
<tr>
<td><strong>Packaged with 990 Trims:</strong></td>
<td>#10-24 x 1¾&quot; (35 mm)</td>
<td>1¾&quot; (44 mm) door, 990 Trim</td>
</tr>
<tr>
<td></td>
<td>#10-24 x 1½&quot; (48 mm)</td>
<td>2¼&quot; (57 mm) door, 990 Trim</td>
</tr>
<tr>
<td><strong>C</strong></td>
<td>#10-24 x ¾&quot; (19 mm)</td>
<td>Surface mount or Sex bolts 1¾&quot; (44 mm) door</td>
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<tr>
<td></td>
<td>#10-24 x 1¼&quot; (29 mm)</td>
<td>Sex bolts, 2¼&quot; (57 mm) door</td>
</tr>
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<td></td>
<td>#10 x 1¼&quot; (32 mm) Wood screw</td>
<td>Surface mount (wood)</td>
</tr>
<tr>
<td><strong>D</strong></td>
<td>#10-16 x ¾&quot; (10 mm) Thread cutting</td>
<td>End cap</td>
</tr>
<tr>
<td><strong>E</strong></td>
<td>#10-24 x 1&quot; (25 mm)</td>
<td>Surface mount (metal)</td>
</tr>
<tr>
<td></td>
<td>#10 x 1¼&quot; (32 mm) Wood screw</td>
<td>Surface mount (wood)</td>
</tr>
<tr>
<td><strong>F</strong></td>
<td>#8-18 x ¾&quot; (10 mm) Thread cutting</td>
<td>Center case cover</td>
</tr>
</tbody>
</table>
1. Draw horizontal device and strike center lines (C).
   - For double doors with a mullion and strike already installed, use existing strike center line.

2. Align strike on C and mark the two slotted holes.
   - For 499F strike installation, see page 6.
   - For more information on the strikes shown below, go to http://w3securitytechnologies.com and look for the Support area for Von Duprin installation instructions.

3. Prepare 2 holes and install 2 screws.
   - See “Screw Chart” on previous page for screw types and sizes

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

5. If necessary, prepare cutouts for cylinder and trim.
   - For trim applications with working lever, thumbpiece, or knob:
     Mark with template and cut out (cut device side only)
   - For outside cylinder applications:
     Mark with template and cut out Metal door (cut device side)
     Wood door (cut thru)
**6 Prepare 4 center case mounting holes.**

Four mounting holes

See trim instructions for pull side door preparation. Line X-X in trim instructions is same as vertical device C.

**7 Prepare 2 center case support holes.**

Two support holes

**8 If necessary, remove NL drive screw**

**NL drive screw**
Factory installed on back of center case

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

<table>
<thead>
<tr>
<th>Trim Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>996L</td>
<td></td>
</tr>
<tr>
<td>996K</td>
<td></td>
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<tr>
<td>696TP</td>
<td></td>
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<tr>
<td>990TP</td>
<td></td>
</tr>
</tbody>
</table>

With the 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).

<table>
<thead>
<tr>
<th>Trim Code</th>
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<tbody>
<tr>
<td>*996L-BE</td>
<td></td>
</tr>
<tr>
<td>*996K-BE</td>
<td></td>
</tr>
<tr>
<td>*696TP-BE</td>
<td></td>
</tr>
<tr>
<td>*990TP-BE</td>
<td></td>
</tr>
</tbody>
</table>

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

**9 If using a cylinder with a tailpiece, prepare device and cylinder.**

9a Install tailpiece guide.

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

9b Cut tailpiece as needed.
10 If necessary, cut device.

- Temporarily remove anti-rattle clip.
- Cover plate flush.

11 Attach center case to door.

- Thru-Bolting Trim.

12 Mark and prepare two (2) holes.

- Prepare holes after lock side of device is mounted and hinge side is leveled.

13 Install end cap bracket and end cap.
14 Install required support screws and center case cover.

Remove protective film from pushbar.

15 Adjust strike as needed.

299/299F Strike

Shim as needed

16 Install strike support screw.

Metal: #25 1/4" (3 mm) x 1" (25 mm) Deep
Wood: #10-24

499F STRIKE INSTALLATION

1. Prepare and install screws through two strike slots.

2. Install strike hook and additional strike screws.

3. Template aligns as shown.

If using a mullion, holes may be predrilled.
If using the -2SI with a thumbturn, remove this screw from back of device prior to installing the thumbturn cylinder.

If using the -2SI with a keyed rim cylinder, remove the 2 stop screws from back of device prior to installing the cylinder.

If using the -2SI with a thumbturn, remove this screw from back of device prior to installing the thumbturn cylinder.

From front side of device, insert tailpiece guide into master cam. It will snap into location.

#8-18 x 3/8" (10 mm) PPHSMS

#8-32 x 5/16" (8 mm) PPHMS

Cylinder Mounting Screws DO NOT over-tighten

RHR Shown (LHR opposite)

LHR
Back of Device

RHR
Back of Device

#8-18 x 3/8" (10 mm) PPHSMS

RHR Shown (LHR opposite)

Front of Device
For 98/99-2SI models with Classroom Security Indicator, apply supplied labels above and below cylinder to match door handing, and 🔄 label on indicator.

 Maneuver affix the label:

Ensure surface is clean of dirt, dust, or oils. Clean with alcohol if necessary.

Peel the label from the paper backing and apply to the surface. Minimize handling when applying and use pressure to burnish label to surface. The adhesive will require up to 8 hours to achieve the proper bond.

CD (CYLINDER DOGGING) OPTION

Dog

Undog