NOTE: If door does not have a cutout for cabling inside lock stile, door must be routed. Refer to 98/9950WDC wood door template #24663650.

1-Point Latch (LBL)

2-Point Latch includes these additional components

Fire-Rated Devices include these additional components

Metal Edge Wrap required for 60 and 90-minute applications
98/9950WDC

Instead of traditional rods, concealed vertical cables are utilized, making use of a proven technology that enables quick installation and allows for easy maintenance. Simplified sizing, ease of adjustment and greater door integrity make the Wood Door Concealed exit device a more secure solution, without the complexity associated with traditional concealed systems. Another key benefit of the system is the ability to make adjustments to the system by simply removing the scalp plate from the edge of the door.

If you have any questions or comments please visit the resources below or give us a call so we can help get you on your way. Thank you for your continued support of Von Duprin.

Technical Support hot line: 877-671-7011

Scan this QR code or visit us online at kc.allegion.com to access the Allegion Knowledge Center.

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For iPhone: QR Reader
For Android: QR Barcode Scanner
1a For 60 and 90-minute applications, install metal edge wrap.

1b If necessary, prepare door for top strike cutout.

1c With door laying flat, draw horizontal device center line (C).

1d If necessary, align plastic template to mark 4 holes.

1e Prepare center case mounting holes as required.

1f Prepare center slide mounting hole.
2 FIRE BARRIER

⚠️ Fire application only
⚠️ Fire components must be installed to maintain fire rating of opening.

2a Peel adhesive backing from intumescent and apply to trim side of fire barrier.

⚠️ Intumescent must be properly aligned before exposed adhesive contacts fire barrier. Adhesive is permanent and not repositionable.

2b Remove appropriate knockouts for device and trim.

2c With fire barrier in correct orientation, slide barrier into door pocket. Secure fire barrier to inside of pocket with 2 screws.
<table>
<thead>
<tr>
<th>Trim Model</th>
<th>Trim Function</th>
<th>Right Hand Reverse (RHR)</th>
<th>Left Hand Reverse (LHR)</th>
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<tr>
<td>Exit Only</td>
<td>EO</td>
<td>A B C D E J K</td>
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<tr>
<td>IVES 8190</td>
<td>-</td>
<td>Drill thru barrier</td>
<td>Drill thru barrier</td>
</tr>
</tbody>
</table>
3 LATCH INSTALLATION

3a Confirm top latch is marked for EXIT DEVICES ONLY, then remove label.

ATTENTION: FOR USE WITH EXIT DEVICES ONLY

3b Connect cable end fitting(s) to latch(es).

⚠️ For 2-point latches, the top cable is the longer of the two cables. Top cable is silver, bottom cable is black.

Top
Pull down on cable link

Bottom
Bend cable slightly to access cable link, then install

3c Slide latch(es) into door pocket.

⚠️ Clear cable channel of debris first if necessary.

3d Secure latch(es).

For 2-Point Latch Only

3e Perform cable binding check at mortise pocket.

Pulling on top cable should lock and unlock top latch.

(2-pt only) Pulling on bottom cable should retract bottom latch.

3f Prepare door for hanging.

Pull top cable taut and tape cable end to door edge (f-1).

For 2-Point Latch Only

Pull bottom cable taut enough so bottom bolt will not drag against floor, and tape cable end to door edge (f-2). This holds cable in place, preventing it from dropping into door channel. Tape bottom bolt in place (f-3).

3g Hang door on frame.

⚠️ For 2-point latches, bottom latch cannot be in locked position while hanging door on frame. Latch must be retracted.
4 CABLE INSTALLATION

4a Insert cable end fitting(s) into center slide.

⚠️ Be sure to attach top cable to top end of center slide (marked “This Side Up”)

Pull top cable thru mortise opening (a-1).

Rotate spool using hex wrench to reveal cable hole in spool (a-2), if it is not visible or only partially visible.

Insert cable end into spool (a-3).

Turn spool screw clockwise (a-4) to rotate spool until cable end is beneath profile of center slide (a-5).

4b Take up top cable slack only.

Position center slide as shown. Turn top spool screw clockwise to tighten (b-1) until center slide is no longer hanging outside door.

⚠️ Do not adjust bottom cable at this time.

NOTE: If clicking noises are heard during clockwise adjustment, unwind the cable with one-half turn counter-clockwise. Then, continue clockwise adjustment. If clicking persists, check to be sure cable is not caught on an edge.

4c Secure center slide.

4d Adjust top spool.

NOTE: Top latch must be placed in locked position prior to making top adjustment.

Put top latch in locked position (d-1).

If latch won’t lock, top spool screw was overtightened in Step 4b and needs to be backed out 5 turns counter-clockwise.

Put hex wrench away until Step 8b.

NOTE: No further top spool adjustment needed. Put hex wrench away until Step 8b.
5a If necessary, cut device.

If necessary, remove NL drive screw.

5b 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</th>
</tr>
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<tbody>
<tr>
<td>996L</td>
</tr>
<tr>
<td>696TP</td>
</tr>
<tr>
<td>990TP</td>
</tr>
<tr>
<td>996K</td>
</tr>
<tr>
<td>697TP</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).

* *996L-BE*  *E996L*  *696TP-BE*  *990TP-BE*

* *996K-BE*  *E996L-BE*  *697TP-BE*

* 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.

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

5c Install lift finger(s).

Attach spring. Spring clip wraps around L-shaped lift finger as shown.

Attach spring. Spring clip wraps around L-shaped lift finger as shown.

With device center case hanging over edge of table, insert lift finger with spring compressed thru upper block of center case.

Install locking screw loosely.

Press lift finger screw upward to preload spring (c-5).

While lift finger screw is being pressed, tighten locking screw (c-6).

For 2-Point Latch Only

Repeat steps c-1 thru c-6 for lower block of center case.
5d  Attach center case to door.

- Thru-bolting Trim
  - (1¾" door)
  - (2¼" door)
  - OR

- Surface Mount

- Sex Bolts
  - (1¾" door)
  - (2¼" door)

**Warning:** Do not overtighten center case to door (door edge cover plate won’t fit).

5f  Install end cap bracket and end cap.

- #10 x 1½" Wood screw
  - (Surface mount WDC)

- #10-24 x ¾"
  - (Sex bolts, 1¾" door)

- #10-24 x 1½".
  - (Sex bolts, 2¼" door)

5e  Mark and prepare 2 holes.

- Surface Mount
  - ¹⁄₈" Drill, Pilot 1" Deep
  - OR

- Sex Bolts
  - ³¹⁄₃₂" Drill thru

5g  Secure center slide to face of door.

- 8-32 x 1⅜"
ADJUSTMENT COMPONENTS

Center Case

Top locking screw:
Locks lift finger screw adjustment

Top lift finger screw:

Bottom lift finger screw*:

Bottom locking screw*:
Locks lift finger screw adjustment

Center Slide

Top lift finger:
Transfers motion from exit device spool inputs

Top spool screw:
Sizes cable to door height and undercut

Bottom latch pin*:
(reference for adjustment)

Bottom spool screw*:
Sizes cable to door height and undercut

Bottom lift finger*:
Transfers motion from exit device spool inputs

Bottom latch pin*:

Spool locator:
Keeps spools in position during adjustment.

* For 2-point latch only
6a Adjust device.

Slide top spool screw downward until it clicks (a-1). Slide bottom spool screw upward (a-2).

While sliding bottom spool screw upward (a-3), attach spool locator (a-4). Once locator snaps into place, let go of spool screw. Pins must be visible in locator windows.

Tighten the top adjustment locking screw.

**NOTE:** Locking screw must be tight.

Undog device or release push pad.

Remove spool locator (a-10), rotate 180° (a-11), and reinsert into door pocket for storage as shown below (a-12).

**For 2-Point Latch Only**

Repeat steps a-6 and a-7 for bottom adjustment locking screw. Lift finger will move.

Loosen the top adjustment locking screw.

Lift finger will move (movement may be small or large). Automatic adjustment occurs here.

Dog device or depress and hold push pad at the end nearest the center case.
7 STIKES AND FIRE PIN

7a Prepare door frame for top strike.

If using a door seal or gasket, install first.

From push side of door, with door nearly closed, use straight edge to transfer location of inside edges of top latch housing to underside of stop (a-1).

From pull side of door, transfer marks to underside of frame (a-2).

With flat end of strike against stop, center strike to marks on frame (a-3). Use a pencil to trace contour of the two slotted holes (a-4).

Mark the bottom center point of each slot (a-5) and prepare door frame as shown.

Do not drill 3rd hole at this time.

7b Shim, then install 2 top strike screws using the slot features on the strike.

Place top latch in locked position and place strike on top of latch bolt (b-1).

Close door and measure the gap between strike and frame by stacking as many shims as possible. In the example shown, the gap is 1 thick and 2 thin shims (b-2).

Remove 1 thin shim from the measurement (b-3). Note: 1 thick shim is same as 2 thin shims

Screw strike to frame using those shim(s) (b-4).

Typical installation requires 1-thick and 1-thin shim. Adjust as necessary.

150 Top Strike

NOTE: 3rd screw is not installed at this time.
### 7c Perform top latch functional test.

- **c-1.** Close door.
- **c-2.** With door closed, top latch should be secure.
- **c-3.** If door fails to relatch, adjust top strike location.
- **c-4.** Depress pushbar. Door should begin to open when pushbar is nearly fully depressed. If necessary,
  - Reset automatic adjusting fingers by pressing lift finger upward to preload spring (a).
  - While lift finger is being pressed, tighten locking screw (b).
  - Repeat adjustment (Step 6).

### 7e Install bottom strike.

#### For 2-Point Latch Only

- Before After
- • Clear holes of debris, then drop in anchors (slotted end first)
- • Secure the anchors using a hammer and punch

#### Install strike plate and secure with 2 screws

#### 7f For Fire LBL applications only, install fire pin.

- ! See instructions packaged with fire pin.
8 BOTTOM LATCHBOLT CLEARANCE

8a Remove tape holding bottom bolt in place from bottom of door.

For 2-Point Latch Only

8b Adjust bottom latchbolt clearance.

For 2-Point Latch Only

Pull top spool screw downward to release top latch, if not already retracted.

Push bottom latch pin upward. Link will tilt.

Turn bottom spool screw clockwise approximately 20 turns to remove slack. Continue turning until bolt just clears top of strike (b-4).

8c Perform bottom latch functional test.

For 2-Point Latch Only

- c-1. Confirm bottom latchbolt does not drag against floor when door is opened.
- c-2. With door closed, bottom latch should be secure.

⚠️ NOTE: If clicking noises are heard during clockwise adjustment, unwind the cable with one-half turn counterclockwise. Then, continue clockwise adjustment. If clicking persists, check to be sure cable is not caught on an edge.
9 TOP STRIKE AND COVERS

9a Adjust top strike as necessary, then install the third strike screw to fix the strike position.

9b For fire devices, prepare door edge and cover plate.

- Fire application only
- Intumescent must be properly aligned before exposed adhesive contacts cover plate. Adhesive is permanent and not repositionable.

9c Install cover plate to door edge, then completely tighten down center case screws.

For non-fire devices, first prepare door edge

9d Install center case cover.

- Peel adhesive backing from intumescent and apply to back side of cover plate
- Insert plastic anchors
- Remove protective film from pushbar

Metal

<table>
<thead>
<tr>
<th>#25 x ¾” Deep</th>
</tr>
</thead>
<tbody>
<tr>
<td>#10-24</td>
</tr>
</tbody>
</table>

OR

Wood

| ⅛” Drill |
| Pilot 1” Deep |

⅛” Drill, Pilot 1” Deep x2

⅛” Drill, Pilot 1” Deep x2
10 TRROUBLESHOOTING

If latches do not retract when pushpad is depressed:

Remove cover plate from edge of door

- Pull down on top spool screw. If the top latch fails to actuate, readjust top spool (Steps 4d-1 thru 4d-4).
- Pull up on bottom spool screw. If the bottom latch fails to actuate, readjust bottom latch clearance (Steps 8b-1 thru 8b-4).
- If both actuate and the door is not functioning, proceed to next steps.

Remove center case cover

- Reset automatic adjusting fingers by pressing lift finger upward to preload spring (a).
- While lift finger is being pressed, tighten locking screw. (b)
- Repeat adjustment (Step 6).

If bottom bolt does not stay up while door is open:

- Confirm mounting screw is securing center slide to face of door (Step 5g).
- Confirm top latch is sufficiently shimmed (Step 7b).
- Turn top spool screw in Step 4d-2 one click (¼ turn) counterclockwise (CCW).