Installation Instructions for KV 8800 Series Pivot Door Slides

INSTALLATION INSTRUCTIONS:

These instructions show how to install the KV 8800 Series Pivot Door Slide. Please note that these instructions may not be suitable for use with the KV 8900 Pivot Guide System. If you are unsure, contact KV’s customer service.

Typical Application:
- Obtain appropionate hinges based on door thickness and operational requirements.
- Recommended maximum door dimensions: 36" wide, 72" high. For some types of door construction where door center bore may be an issue, a third slide may be used (see fig. 16).
- Recommended minimum door weight: 75 lbs.
- Designed to be used on vertical doors only.

Step 1: Size the cabinet door.
- For typical inset door applications, the cabinet door should be sized to allow for 1/2" top and bottom vertical edge gap.

Step 2: Install hinge cups in cabinet door.
- Determine location of hinge hole centers. Lay out the door cup holes from the top and bottom edges of the door. 2-3/4" from door edge to first hinge cup centerline and 3-1/4" from the centerline of the first hole to the centerline of the second hole. Ensure that the holes are parallel. The edge bore is the same for KV200305 pivot and roller assemblies. Always bore holes on a test block first to verify hinge cup locations. Install hinges in door.

Step 3: Position slide channels inside case.
- Locate the centerlines of the top and bottom slides 4-3/4" from the inside top and bottom surfaces of the case. Set back the slides from the front edge of the case the door thickness plus 1/4" (for inset door applications).
- Position the side channels into the milled opening using the expansion pin on the back of the pivot channel. The expansion pin should set back 1/4" from the edge of the opening on the rear of the side channel (fig. 3).
- Center the side assemblies are parallel to case edge and then mount the assemblies to the case side by driving screws through the side assembly.
- A mounting screw must always be used in the frontmost side hole (fig. 4).

Step 4: Prepare pinion shaft and gear assembly.
- Cut the pinion shaft to 4" less than the overall cabinet opening height. The bearing should be cut to a width of 2-3/4" and a length that matches the width of the side for proper slide operation.

Step 5: Install pinion gear assembly to slides.
- Pull the slide hinge brackets to the front of the cabinet. (fig. 5)
- Install a pair of pivot gear, pillow block and bushings to the top and bottom of the gear assembly that the gears are assembled with the matching bushing. The slide side up (fig. 6). Insert two pillow blocks and bushings in the frontmost slide hole and two pillow blocks and bushing assemblies together and then attach the locking cap to the top of the pinion shaft.

Step 6: Hang door and adjust hinges as required.
- Install hinged cabinet door to slide assembly in the cabinet so that they are in the locked or detent position. Align the pinion shaft assembly to the sides making sure that the teeth in the gear assembly line up properly with the teeth in the rack assembly. Slight the pillow block attaching screws but do not allow slippage. IMPORTANT: Roller assembly should not bind on door. Always install the 8090 Pivot Door slide using top and bottom guide rollers provided with slide. If roller is lost or damaged, KV hardware will furnish service for replacement – DO NOT substitute other rollers. When improper installation is installed, the slides could be damaged. Locate the rollers as shown.

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NOTE: Not recommended for square doors or panel door construction.

Recommended maximum door dimension:
- VERTICAL DOOR HEIGHT=
  - DOOR THICKNESS + 1/4" (for inset door applications).

Edge bore dimension:
- EDGE BORE DISTANCE

Roller end:
- PINION SHAFT GEAR ASSEMBLY
- PINION GEAR ASSEMBLY

Thickness:
- HINGE ADJUSTMENT

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www.knapevogt.com
**SVK KV 8090 Series**

### 4x4 Pocket Door Slide

**SPECIFICATIONS:**
- 75-pound maximum per door.
- Designed to mount to side of case for vertical pocket doors.
- Maximum door dimension is 36" x 96".
- Not recommended for square doors or where door width is greater than door height.
- Self-closing three-way adjustable geometric door hinge with single lever disconnect feature.
- Precision steel ball bearings.
- Heavy duty electro-zinc-plated lacquer finish.

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**Accessories**

<table>
<thead>
<tr>
<th>Hinge Style</th>
<th>Hinge Finish</th>
<th>Hinge Kits</th>
</tr>
</thead>
<tbody>
<tr>
<td>8080H</td>
<td>Ebony Black</td>
<td>8080H-FEB</td>
</tr>
<tr>
<td>8080L</td>
<td>Ebony Black</td>
<td>8080L-FEB</td>
</tr>
</tbody>
</table>

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**Limited Lifetime Warranty**

Knape & Vogt Manufacturing Company guarantees its drawer slides and builder’s hardware products against failure or defects for so long as the purchaser or end user owns them. This warranty is void if any damage to the product is due to misuse, neglect, accident, improper installation or any abuse contrary to the instructions accompanying the product. This warranty covers the cost of the defective part and not the cost of removal, installation or other incidental charges. If the warranty is voided due to misuse, the purchaser is responsible for the cost of repair or replacement. Knape & Vogt Manufacturing Company assumes no liability for special or consequential damages. Replacement product may be obtained by returning the product, transportation charges prepaid, together with a receipt of purchase or other documents acknowledging the sale of the product to the Knape & Vogt Manufacturing Company, Attention: Customer Service Department.

The warranty set forth above is in lieu of any other warranties, express or implied, excluding warranties of merchantability and fitness for use.

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**Figure 12**

**Figure 13**

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**Figure 14**
A maximum overlay of 7/16” (11 mm) can be obtained with the KV 8092 slide and the KV 8080 HPEZLEB or KV 8080 HKEZLEB overlay hinge with 3/4” thick door applications. **NOTE:** Not recommended for square doors or where door width is greater than door height.

Designing a case for this maximum amount of door overlay requires the cabinet shop/manufacturer to fully understand the hinge limitations and the installation requirements of the pocket door hardware. The following values are intended as a guideline only. A test block should always be bored first to verify the hinge cup hole locations and proper function of the pivot door slide hardware before the cabinet door is bored. The following are the installation guidelines:

1. **The door must be 3/4” (19 mm) thick including any protruding profiles.** If the door is thicker than 3/4” (19 mm), the difference between the actual thickness and the nominal 3/4” thickness will equal the loss of overlay from the maximum obtainable value of 7/16” (11 mm) as stated above.

2. **The installation of the KV 8080 HPEZLEB or KV 8080 HKEZLEB overlay hinge requires the use of a 40 mm diameter boring drill (see Figure 1).** If you are building a frame and panel door, the width of the frame should be reviewed because of the large edge bore distance requirement shown in step 3.

3. **To achieve the maximum amount of overlay, the door must be bored with an edge bore distance of 9/16” (14.3 mm).** This value represents the maximum DBE or TAB dimension possible with this hinge without notching the corner profile of the door. The use of the 9/16” (14.3 mm) edge bore distance may limit the amount of door depth adjustment (door face “in and out”) due to possible interference with the lockout finger on the slide bracket with the back edge of the door (see Figure 2).

The door test block should be used with the slide to determine the final placement or setback of the slide with respect to the front edge of the case. Profiling the outside edge of the door may minimize this potential problem.

4. **Setback the door slide 3/16” (4.8 mm) from the front edge of the case using the protruding edge of the black molded guide roller on the slide as a reference point.**

5. **Install the remaining hardware as normal and hang the door.** **VERY IMPORTANT:** Do not retract the door into the case before adjusting the horizontal adjusting screws first (see Figure 2). Failure to do so will result in the door scraping on the door slide assembly. To obtain the maximum amount of overlay, the hinge must be adjusted so that the door is close-to/slightly touching the black molded guide roller attached to the front of the slide. After adjusting the hinges, slowly retract the door while watching for any interference or slide hardware contact.

6. Complete the standard installation process by performing any remaining hinge adjustments and the installation of the cabinet mounted top and bottom guide rollers.

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**READ INSTRUCTIONS FIRST!**

Please note that improper installation may void the Knape & Vogt Limited Lifetime Warranty. To install the slides correctly, follow the enclosed instructions, use only KV hardware and make no modifications. If you have questions or need additional information, please contact Knape & Vogt customer service.