KAWNEER 1686 CONCEALED EXIT DEVICE
INSTALLATION INSTRUCTIONS (PART NUMBER 038-310)

ROD INSTALLATION:
1) Slide the rod and center case assembly into the door stile.

NOTE:
For inactive doors or doors without exterior cylinder, or doors without the need for exterior cylinder dogging, the removal of the cylinder dogging pawl is recommended. (See removal of Dogging Pawl below)

For 190 pair of doors only, the cylinder dogging mechanism must be activated before the rod and center case assembly is inserted into the active door stile. Undog cylinder dogging mechanism when center case assembly is secured within the 190 active stile. In addition, the weld nut plate fasteners that protrude into the active door should be cut flush with plate.

REMOVAL OF CYLINDER DOGGING PAWL:
1) Loosen two bracket retaining fasteners.
2) Discard dogging pawl.
3) Reinstall the bracket and retaining fasteners within the exit device housing.

CENTER CASE INSTALLATION:
1) Using a hook tool, align center case with holes provided.
2) Attach center case with (2) #8 x 1/4” cap screws (don’t over tighten).
3) Adjust top and bottom bolts with wrench provided allowing 1/2” of bolt to extend beyond stile. Turn top bolt counterclockwise to lengthen and clockwise to shorten.
   Turn bottom bolt clockwise to lengthen and counterclockwise to shorten.

TOP GUIDE INSTALLATION:
1) Install top guide over top bolt and slide into door stile.
2) Attach guide with (2) #10 x 1/2” FH undercut fasteners.

BOTTOM GUIDE INSTALLATION:
1) Install bottom guide over bottom bolt and slide into door stile.
2) Attach guide with (2) #10 x 1/2” FH undercut fasteners.
**CYLINDER PAD ASSEMBLY:**
1) Insert a 15/16" cylinder into the mounting pad and secure with the retaining ring.

*Note:* If using a cylinder longer than 15/16", cylinder rings will be required to maintain the 7/16" projection.

**CYLINDER INSTALLATION:**
1) On exterior side of door, install the cylinder assembly into cutout on the door stile.
2) On interior side of door, install (2) #8-32 x 1-15/16" FHMS through door stile to secure cylinder assembly in position.

**PUSH PAD DOGGING:**

**TO DOG EXIT DEVICE**
Insert the hex key and turn clockwise until it stops. Fully depress touch bar and release the key. With touch bar retracted remove hex key.

**TO UNDOG EXIT DEVICE**
Push on touch bar. Insert hex key and turn clockwise until it stops. Release touch bar, when the touch bar is in the extended position release hex key and remove.

**DEVICE ATTACHMENT:**
1) Undog exit device before attaching to door.
2) Attach exit device onto pivot stile and lock stile of door with fasteners provided, as indicated below.
3) Install cover brackets (on top & bottom of device) onto exit device with fasteners provided.

---

**Cylinder Mounting Pad**

**Cylinder**

15/16" Cylinder with 0.800" cam

**Retainer Ring**

**Insert cylinder assembly into cutout.**

**#8-32 x 1-15/16" FHMS**

**Pivot Stile Fastener**

1/4"-20 x 1/2" PHMS

**End Cap Bracket**

**Lock Stile Fastener**

#8-32 x 1-1/4" Cap Screw

**Lock Stile Fastener**

#12-24 x 1-1/4" PHMS

**Install Cover Bracket and Fastener**
FEBRUARY, 2011

KAUNER 1686 CONCEALED EXIT DEVICE

EC 97904-36
INSTALLATION INSTRUCTIONS (PART NUMBER 038-310)

FINAL ASSEMBLY:
1) Slide pivot stile filler into device, attach pivot stile end cap with fasteners provided.
2) Slide lock stile filler into device, install cover over brackets on lock stile and attach with fasteners provided.
3) Stand door in the vertical position and place on blocks to test operation.
   Note: The top and bottom bolts should extend approximately 1/2" beyond door stile.
4) Depress push bar, the top bolt should lock in the retracted position. If locking does not occur readjust top bolt with half turn increments until locking occurs.
   Note: Bottom bolt should be flush with end of stile to approximately 1/16" projection beyond the end of the stile in the retracted position.
5) Release the bolts by depressing the trigger at the top guide.

EXTERIOR CYLINDER DOGGING:
1) Insert dogging key, turn key counterclockwise until rods are retracted. Top bolt should lock into retracted position.
2) Return key to vertical position.
3) With rods in the retracted position, turn key clockwise approximately 1/8 of a turn to activate dogging.
4) Return to vertical position and remove key.
5) Turn key counterclockwise to the unlock position to release exterior key dogging, remove key.

TOP BOLT FABRICATION:
1) Fabricate header t-bar for top bolt cutout as indicated below, for single or pairs of doors.

BOTTOM BOLT FABRICATION:
1) Fabricate threshold for bottom bolt cutout as indicated below, for single or pair of doors.

DOOR STOP INSTALLATION:
Using 033-981 threshold stop package as a template, drill (2) 5/32" (0.156) diameter holes and secure with self threading fasteners.
Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

CONCEALED ROD EXIT DEVICE PACKAGE TO INCLUDE:

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>QTY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1*</td>
<td>1 EA.</td>
<td>EXIT DEVICE BASE ASSEMBLY (SIZED ACCORDING TO PART NUMBER)</td>
</tr>
<tr>
<td>2*</td>
<td>1 EA.</td>
<td>HINGE/PIVOT FILLER PLATE (SIZED ACCORDING TO PART NUMBER)</td>
</tr>
<tr>
<td>3*</td>
<td>1 EA.</td>
<td>LATCH FILLER PLATE</td>
</tr>
<tr>
<td>4</td>
<td>1 EA.</td>
<td>#8-32 PANIC ATTACHMENT FASTENER</td>
</tr>
<tr>
<td>5</td>
<td>1 EA.</td>
<td>#12-24 PANIC ATTACHMENT FASTENER</td>
</tr>
<tr>
<td>6</td>
<td>1 EA.</td>
<td>METAL HOUSING COVER (BLACK MATT FINISH)</td>
</tr>
<tr>
<td>7</td>
<td>4 EA.</td>
<td>HOUSING COVER ATTACHMENT FASTENERS (BLACK)</td>
</tr>
<tr>
<td>8</td>
<td>1 EA.</td>
<td>HINGE/PIVOT STILE ATTACHMENT FASTENER</td>
</tr>
<tr>
<td>9</td>
<td>1 EA.</td>
<td>END CAP MOUNTING BRACKET</td>
</tr>
<tr>
<td>10</td>
<td>1 EA.</td>
<td>HINGE/PIVOT END CAP (BLACK MATT FINISH)</td>
</tr>
<tr>
<td>11</td>
<td>2 EA.</td>
<td>END CAP FASTENERS (BLACK)</td>
</tr>
<tr>
<td>12</td>
<td>1 EA.</td>
<td>TOP ZINC GUIDE BLOCK</td>
</tr>
<tr>
<td>13</td>
<td>1 EA.</td>
<td>BOTTOM ZINC GUIDE BLOCK</td>
</tr>
<tr>
<td>14</td>
<td>1 EA.</td>
<td>CENTER ROD ASSEMBLY W/STANDARD TOP BOLT AND FLAT HEX BOTTOM BOLT</td>
</tr>
<tr>
<td>15</td>
<td>2 EA.</td>
<td>8-32 HOUSING ASSEMBLY ATTACHMENT FASTENERS</td>
</tr>
<tr>
<td>16*</td>
<td>4 EA.</td>
<td>TOP AND BOTTOM GUIDE ATTACHMENT FASTENERS</td>
</tr>
<tr>
<td>17</td>
<td>1 EA.</td>
<td>STANDARD LIFT PIN FOR 1 3/4&quot; AND 2&quot; THICK DOOR</td>
</tr>
<tr>
<td>18</td>
<td>1 EA.</td>
<td>DOGGING KEY</td>
</tr>
<tr>
<td>19</td>
<td>1 EA.</td>
<td>ROD ADJUSTMENT WRENCH</td>
</tr>
<tr>
<td>20</td>
<td>1 EA.</td>
<td>SPACER PLATE - PLATED STEEL</td>
</tr>
<tr>
<td>21</td>
<td>2 EA.</td>
<td>1/4&quot;-20 x 1/4&quot;LG. FLAT HEAD SCREW</td>
</tr>
<tr>
<td>22</td>
<td>2 EA.</td>
<td>HOUSING COVER BRACKET</td>
</tr>
<tr>
<td>23</td>
<td>2 EA.</td>
<td>HOUSING COVER BRACKET FASTENERS</td>
</tr>
</tbody>
</table>

* Indicates part to be in color to blend with the door finish.

Note:
For 350/500 Heavy Wall door installation, remove items #20 and #21. In addition, the extended trigger top bolt guide part number 133-628 must be used due to 3/16" (0.188") wall thickness.

KAWNEER FINISH | MANUFACTURER FINISH
---|---
17 CLEAR | US26W/28
40 BRONZE | DBZ 313

TOUCHBAR CONCEALED ROD EXIT DEVICE

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>133-620</td>
<td>3'-0&quot; RIGHT HAND</td>
</tr>
<tr>
<td>133-621</td>
<td>3'-0&quot; LEFT HAND</td>
</tr>
<tr>
<td>133-622</td>
<td>3'-0&quot; RIGHT HAND</td>
</tr>
<tr>
<td>133-623</td>
<td>3'-0&quot; LEFT HAND</td>
</tr>
<tr>
<td>133-624</td>
<td>4'-0&quot; RIGHT HAND</td>
</tr>
<tr>
<td>133-625</td>
<td>4'-0&quot; LEFT HAND</td>
</tr>
</tbody>
</table>

NOTE: FOR 350/500 HEAVY WALL INSTALLATIONS REMOVE ITEMS #20 AND #21.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

© Kawneer Company, Inc., 2011

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.