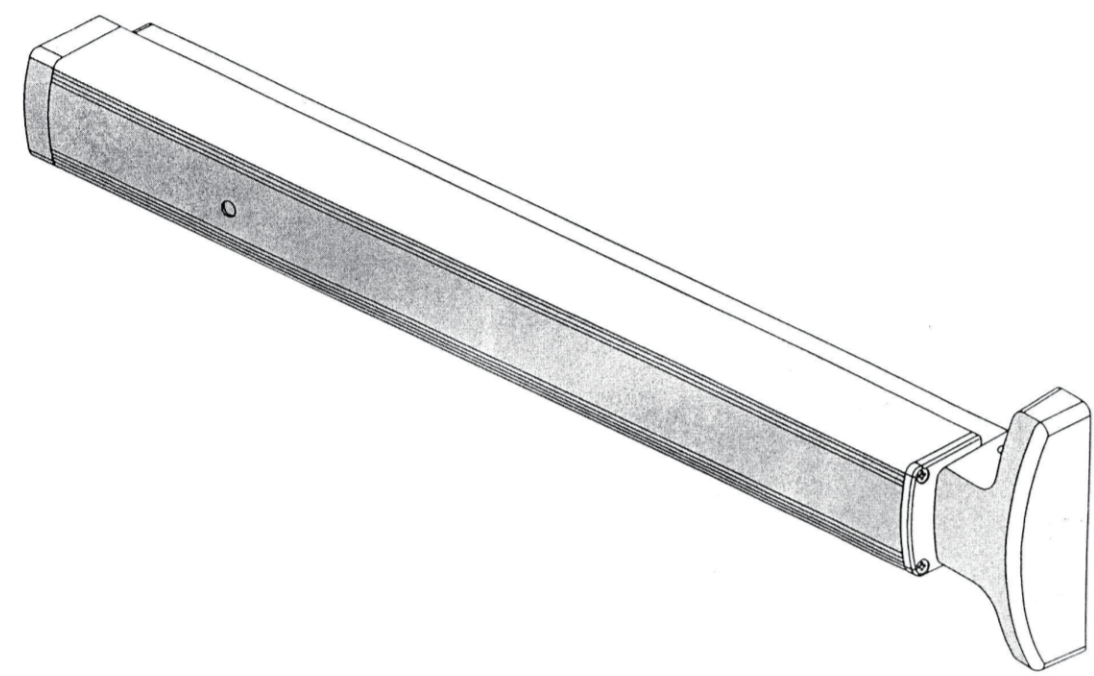




# Concealed Vertical Rod Panic Exit Device

## INSTALLATION INSTRUCTION

DOMINATE HARDWARE LLC



DHED 600

### PARTS LIST

Item	Description	quantity	Item	Description	quantity
1	Latch Housing screw	4	12	Center case cover	1
2	Rod bushing	2	13	Cover screw	2
3	Retaining E-ring	2	14	Hinge stile mtg. screw	2
4	Lock stile mtg. screw	2	15	Channel end cap	1
5	Traveler	1	16	Hinge stile pushbar end cap	1
6	Dogging key	1	17	End cap mtg. screw	2
7	Cylinder bushing	1	18	Strike	1
8	Pinion	1			
9	Retractor	1			
10	Axle screw	1			
11	Pinion support bracket	1			

RHR shown

RIM CYLINDER (optional, sold separately)

### Step 5: (Optional) Install key cylinder.

- Remove traveler and axle leaving the lift arm attached to the device.
- Determine correct rim cylinder tailpiece length and cut to size.
- Use two mounting screws to install rim cylinder into door.

NOTE: Screws must be flush with surface of door.

### Step 6: Install pinion retractor and traveler.

- Remove key with cylinder in locked position. Install cylinder bushing and pinion into hole. Position pinion with flat side up.
- Slide retractor into traveler and place over rods.

Set retractor as shown for Night Latch or Hold Back function.

Mount retractor with teeth to right for both RH and LH doors; keys will now function in the same direction for both.

### Step 7: Install pinion gear support bracket and axle screws.

- Install Pinion Support Bracket and axle screw into upper mounting hole.
- Test function for night latch or hold back.

RHR shown

### Step 8: Install covers.

- Be sure mechanism is undogged. Using two (#8 x 5/8") cover screws install center case cover and tighten securely.
- With two (#8 x 1-1/2") end cap mounting screws mount hinge stile end cap onto pushbar and tighten securely.

### Step 9: Check exit device function.

- With door open, depress pushbar and release so top latch toggles forward. Check bottom latch bolt – it should be flush to within 1/32" to bottom of door.
- After dogging exit device the top latch should pivot freely.

## INSTALLATION

### Step 1: Install top and bottom rod assemblies.

(REFER TO DOOR PREPARATION TEMPLATE ON PAGE 7)

- Using #10 - 32 x 1/4" housing screws install top rod assembly into door. Mount retaining ring and rod bushing. Insure E-Ring is fully seated in groove.
- Repeat above for bottom rod assembly.

### Step 2: Mount push bar mechanism.

- Using 1/4-20 x 1/2" pan head hinge stile mounting screws, loosely mount channel end cap to door.
- Slide mechanism channel under channel end cap using slots for alignment.
- Attach lock stile of device to door using two 1/4-20 x 1/2" flat head lock stile mounting screws to attach lock stile side of device and tighten all four mounting screws until secure.

### Step 3: Install traveler.

- Mount traveler over rod ends as shown.
- Check operation to insure proper engagement.

### Step 4: Adjust top and bottom rods.

(REFER TO INSTRUCTIONS FOR SETTING ROD LENGTHS ON PAGE 6)

#### Top Rod Adjustment

- If the device dogs and undogs freely, go to Step 2. If it does not, the top rod is too long. To determine how much to shorten the top rod:
  - Undog the device.
  - With the pushbar completely out, hold the top rod all the way up and push the lift arm to the bottom of its travel.
  - Measure the distance between the bottom of the traveler projection and the top of the lift arm roller.
  - Subtract the distance from 1/2".
  - Using the difference from Step D, find the number of turns to shorten the top rod from the "Rod Adjustment Table" below.
  - Remove the top rod and shorten it by the required number of turns. Reinstall the top rod.
- Dog the device and push the traveler against the lift arm while maintaining pressure on the traveler. Attempt to pivot the top latch bolt. If the top latch bolt pivots freely, go to Step 3. If the top latch bolt drags or lifts the top rod, the top rod is too short. To determine how much to lengthen the top rod:
  - Push the traveler all the way down then slowly lift it away from the lift arm until the top latch moves freely.
  - Measure the distance between the bottom of the traveler projection and the top of the lift arm roller.
  - Using the measured distance, find the number of turns to lengthen the top rod from the "Rod Adjustment Table" below.
  - Remove the top rod and lengthen it by the required number of turns. Reinstall the top rod.

#### Bottom Rod Adjustment

- Undog the device and making sure the push bar is all the way out push down firmly on the lift arm and on the bent end of the bottom rod. Find the distance of the bottom rod from the bottom of the door. Make sure you measure from the bottom of the door, not from the latch housing. If the bottom rod is flush with the door or sticks out from the door no more than 1/32" the bottom rod adjustment is complete.
- If the bottom rod sticks out more than 1/32" the bottom rod is too long. To determine how much to shorten the bottom rod:
  - Measure the distance that the bottom rod sticks out of the door and look up the number of turns required to shorten the bottom rod in the "Rod Adjustment Table."
  - Remove the bottom rod, shorten it by the required number of turns, and reinstall the bottom rod.
- If the bottom rod is recessed into the door by more than 1/16" the bottom rod is too short. To determine how much to lengthen the bottom rod:
  - Measure the distance that the bottom rod is recessed into the door and look up the number of turns required to lengthen the bottom rod in the "Rod Adjustment Table."
  - Remove the bottom rod, lengthen it by the required number of turns, and reinstall bottom rod.

Rod Adjustment Table	
Distance	No. of Turns
1/32"	1
1/16"	2
3/32"	3
1/8"	4
5/32"	5
3/16"	6
7/32"	7
1/4"	8
9/32"	9
5/16"	10
11/32"	11
3/8"	12
13/32"	13
7/16"	14
15/32"	15
1/2"	16

## SETTING ROD LENGTHS

- Determine top rod set length "A" using: "A" = door height - C - 7.559" where C = distance from center line of pinion hole to bottom of door (standard C dimension is 41-5/16").
- Rotate top latch assembly to set length to nearest 1/32" as determined in Step 1. With bent end of rod facing the same direction as latch housing mounting screw holes, tighten jamb nut to secure.
- Determine overall bottom rod length "B" using: "B" = C - 1.532"
- Rotate bottom latch assembly to set to nearest 1/32" as determined in Step 3. With bent end of rod facing the same direction as latch housing mounting screw holes, tighten jamb nut to secure.

NOTE: Factory length settings are for a standard 7" door (door height = 83.187") with a "C" dimension of 41.313": "TR" = 34-5/16" (34.315") and "BR" = 39-25/32" (39.781")

## CHANGING HAND OF DEVICE

- Remove axle screw.
- Remove lift arm and reinstall on opposite side.
- Reinstall axle screw and tighten securely.
- Verify that lift arm operates smoothly when pushbar is depressed.

## Touchbar Concealed Vertical Rod Panic Device Door Preparation Template

LHR shown - RHR opposite

Notes:

- All holes through inside face only except as noted.
- All dimensions for 1-3/4" thick, 1/8" wall doors. Consult factory for others.

Note D: Dimensions from face of door blade stop to center line of mounting holes 3/4" minimum.

Top Plan View, Rod Latch Showing Strike Cutout in Threshold for Round Latch

Bottom Plan View, Head Jamb (locking up) Showing Upper Strike Mounting Holes

Detail "A" (for cylinder)