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4500 Series Surface Vertical Rod Exit Device Installation Instructions Grade 1



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7. INSTALL BOTTOM LATCH AND ROD

- **STEP 1:** Install bottom latch assembly to bottom latch bracket using provided screws and bottom two slots in bracket (see Figure 1).
- **STEP 2:** Screw threaded end of bottom rod halfway onto bottom latch assembly (see Figure 2).
- **STEP 3:** Align the top end of the bottom rod with the actuating block (see Figure 3). Align by rotating rod clockwise or counterclockwise until the holes line up (see Detail A).
- **STEP 4:** Use the provided machine screw to attach rod to actuating block. Be sure actuating block on the chassis is in the down position (see Detail A).

CHECK INSTALLATION by pushing on exit device push bar. Make sure bottom latch is retracted when push bar is depressed. Bottom latch should clear the finished floor, strike, or threshold. Bottom latch should have $1/2^{"}$ throw.























13. ADJUST AND TEST INSTALLATION

EXIT DEVICE OPERATION

When push bar is depressed and the door is opened, the top and bottom latches should be held retracted until door closes. When the push bar is released both latches remain in the retracted state. When the door closes and the top latch engages with the top strike, it releases the holding mechanism and allows the bottom latch to fully extend.

If the latches do not work smoothly when opening and closing the door, adjust the rod accordingly:

Problem	Try This
If the bottom latch does not clear the strike or threshold	Disconnect the bottom rod from the actuating block and thread the rod farther into the bottom latch. This will raise the rod further when the device is activated, retracting the latch bolt farther, locking it into the latched position.
If the top latch does not clear the strike	Disconnect the top rod from the actuating block and thread the rod into the latch, which will shorten the overall distance. This will allow the top latch to completely retract out of the way of the strike, locking into the latched position.
If the top latch does not operate smoothly	Perform the steps noted above. Also try threading the rod into the latch farther if required.
If the latches are not staying retracted when the door is opened	The top latch may be too far away from the top strike. Insert one top strike shim underneath the top strike to move it closer to the latch and test operation. If the problem continues, insert the second provided shims underneath the top strike

14. INSTALL COVERS

Install chassis head cover and both top and bottom latch covers.



Install Head Cover Plug (FOR LBR DEVICES ONLY):

STEP 1: Slide the head cover plug into the bottom slot on the exit device head cover. Since the LBR does not use a bottom rod, the hole plug will block off this hole from debris or tampering.





.5. INSTALL ROD GUIDES	16. DOGGING DEVICE
Install top and bottom rod guides centered between latch cover and head cover or at desired height.	For increasing the life of this device, dog device during high traffic periods of the day. (A dogging device is not available on fire rated models).
	 Hex Wrench Dogging: Engage Dogging: Depress push bar, then insert dogging hex wrench and turn clockwise 35°. The push bar will remain depressed and the latch will stay retracted. Release Dogging: Hold push bar, insert dogging hex wrench a turn counterclockwise 35°. The push bar will return to the up position and latch will extend to lock door.
SCREWS: Metal Door: 8-32 machine screws (4) Wood Door: #10 wood screws (4)	RELEASE DOGGING BOGGING
	ove the hex wrench extension located below the dogging cover pla
olid cylinder collar and cash box nut. On the morti am). The cylinder should be oriented so the cam i over plate with cylinder and test dogging. Depress	se cylinder, use a "standard cam" (.723" [18], screw center to tip of s pointing away from the exit device push bar. Install the dogging s the push bar, insert key, and turn the key clockwise to dog device
olid cylinder collar and cash box nut. On the morti am). The cylinder should be oriented so the cam i over plate with cylinder and test dogging. Depress furn the key counterclockwise to release dogging.	The push bar, insert key, and turn the key clockwise to dog device MORTISE CYLINDER SIZES 1-1/8" TO 1-3/8" WITH STD CAM 11/32" [8.7] STOCK SOLID COLLAR
olid cylinder collar and cash box nut. On the morti am). The cylinder should be oriented so the cam i over plate with cylinder and test dogging. Depress	se cylinder, use a "standard cam" (.723" [18], screw center to tip of s pointing away from the exit device push bar. Install the dogging s the push bar, insert key, and turn the key clockwise to dog device MORTISE CYLINDER SIZES 1-1/8" TO 1-3/8" WITH STD CAM

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the dogging mechanism to securely attach. If this does not work, repeat the same step with the bottom rod.



