

DOOR HARDWARE FOR SMALL & INTERMEDIATE ENCLOSURES

Catalog Numbers 1494V-L1, 1494V-LL1 and 1494V-L2

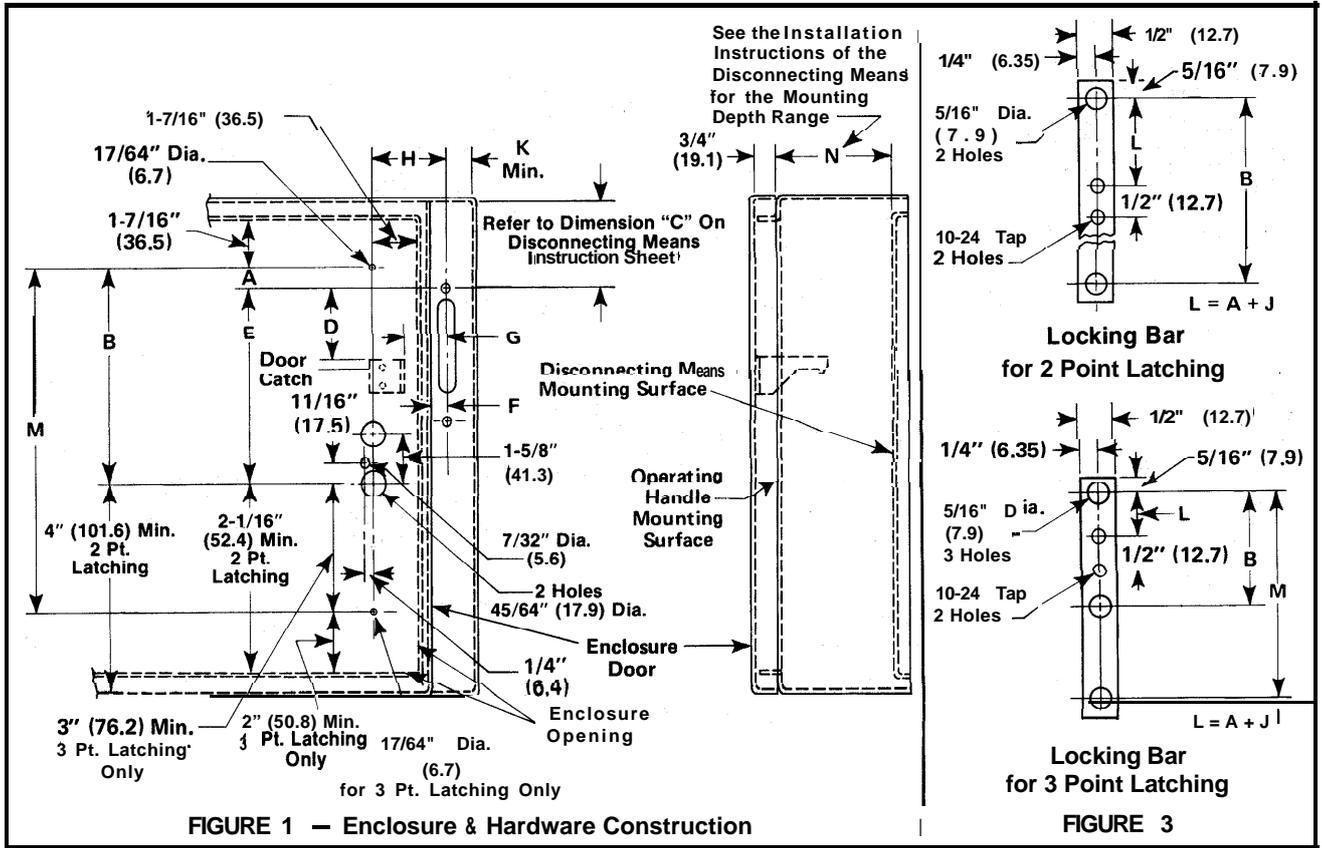


FIGURE 1 — Enclosure & Hardware Construction

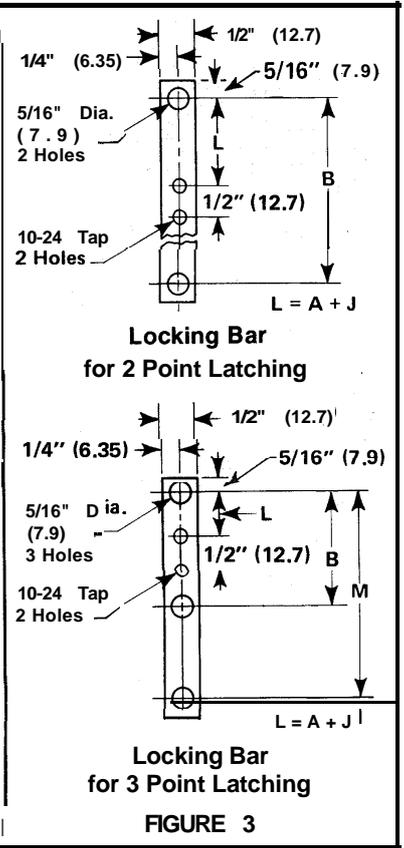


FIGURE 3

GUIDELINES

1. Use on 16 (1.5) thru 10 (3.4) gauge enclosures with 3/4" (19.1) door depth.
2. Small enclosures: 40" (1016) high or less with 2 or 3 point latching.
3. Intermediate enclosures: 40" (1016) thru 60" (1524) with 3 point latching.
4. All drawings in this instruction sheet are for a right hand flange installation. The left hand flange installation layout is a mirror image of the right hand flange installation layout.

INSTRUCTIONS

1. Check all minimum enclosure and door dimensions required for installation. See Figures 1 and 2 and the instruction sheet for the disconnecting means being installed.
2. Provide flange slots and holes per the disconnecting means or operating handle instruction sheet.
3. Locate the holes in the door to secure the handle assembly, the top roller assembly, and the bottom roller assembly (Catalog Number 1494V-L2) when 3 point latching is used.
4. Locate the door catch using "D" and "G" dimensions. **Note:** The door catch is made with projections for welding to the enclosure door. However, holes can be drilled in the door catch using the projections as centers. Then, after proper location and using it as a

Note: Dimensions shown in parentheses are in millimeters.

FIGURE 2

Disconnecting Means Operating Handle	Dimensions In inches								
	A Min.	D	E Min.	F Min.	G	H	J	K Min.	
Short Cat. No. 1494V-H1	1 1/4 <input type="checkbox"/> 4 3/8 <input type="checkbox"/>	2 7/16	9	2 1/32	1 3/8	2 17/32	1 11/16	2 5/32	
	(31.8) (111.1)	(61.9)	(228.6)	(16.7)	(34.9)	(64.3)	(42.9)	(19.8)	
Long Cat. No. 1494V-H2	3	3 55/64	11 1/2	2 5/32	1 1/2	2 21/32	3 7/64	2 5/32 <input type="checkbox"/>	
	(76.2)	(98)	(292.1)	(19.8)	(38.1)	(67.5)	(79)	(19.8)	

- 1 When the Channel Support Kit (Catalog Number 1494V-H4) is not used.
- 2 When using the Channel Support Kit.
- 3 1-3/32" (27.8) minimum when alternate mounting kit (Catalog Number 1494V-H6) is used.

template, corresponding holes can be drilled in the enclosure door. Fasten the door catch with hardware supplied by user. (Seal as required for your application).

5. Establish the length of the locking bar, Figure 3, by measuring, between the proper holes on the door, dimension "B" Figure 1, and adding 5/8" (15.9) for 2 point latching door hardware mechanisms and dimension "M" Figure 1, and adding 5/8" (15.9) for 3 point latching door hardware mechanisms.
6. Determine dimension "A", Figure 1, by measuring between the flange and door holes as shown. See Figure 2 for dimension "J". Drill and tap the locking bar as shown in Figure 3. **Note:** The 1/4" (6.35) by 1/2" (12.7) standard mill rectangular locking bar is not supplied with these kits.

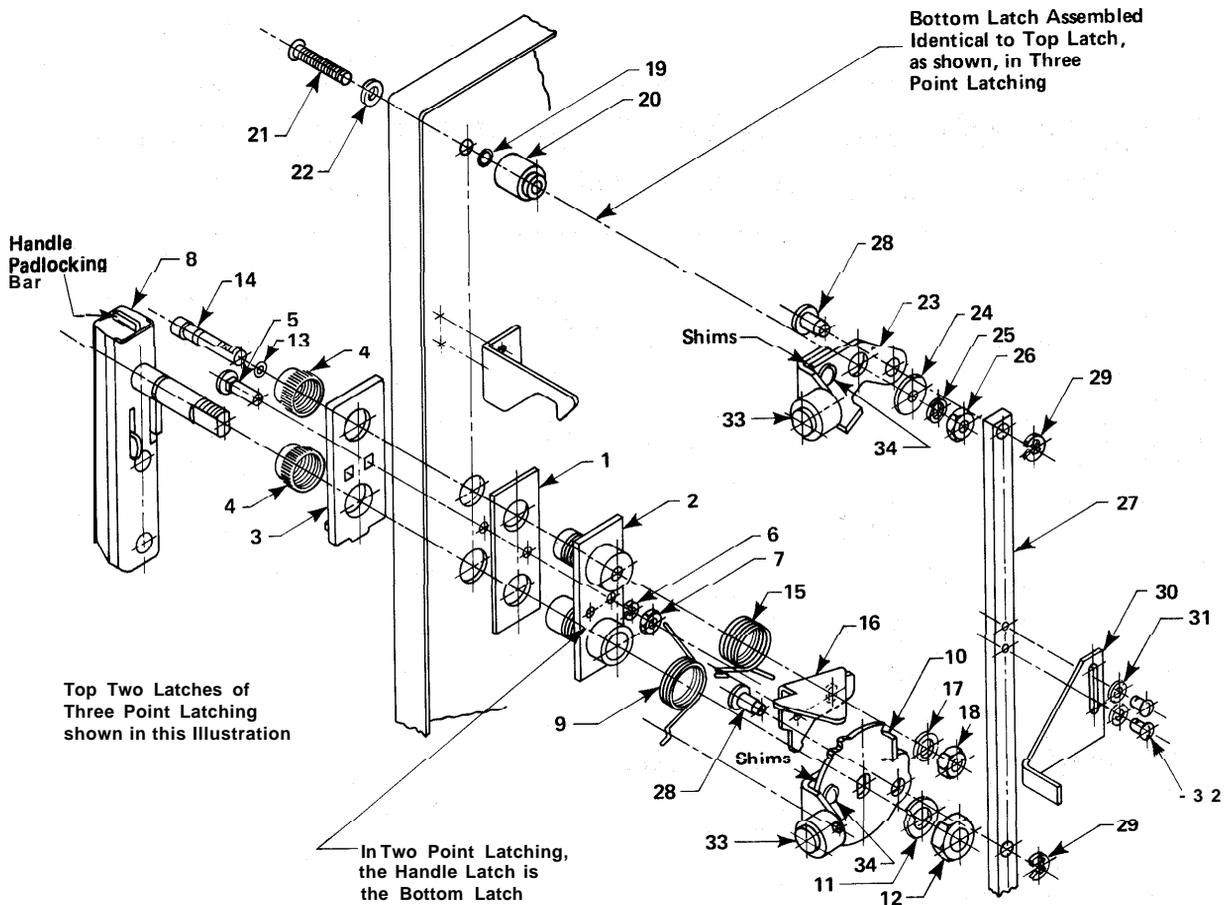


FIGURE 4

Refer to Figure 4 for the following steps.

1. Check to make sure a cover gasket (not supplied with this kit) is installed when your application requires a sealed enclosure.
2. Remove the following items from the handle assembly:
 - A. the handle, cam plate, lockwasher and 1/2-13 nut; items 8, 10, 11, and 12 respectively.
 - B. the two mounting rings, item 4, and
 - C. the face plate, item 3.
3. Insert the remaining portion of the handle assembly consisting of items 1, 2, 13, 14, 15, 16, 17 and 18, through the mounting holes in the door and fasten with the face plate, item 3, and mounting rings, item 4.
4. Install the #10 carriage bolt, item 5, with the lockwasher and nut, items 6 and 7. Position the straight arm of the release lever spring, item 15, on the side of the carriage bolt shown in Figure 5.
5. Replace the handle, item 8. Place the cam plate spring, item 9, into position with the straight arm on the side of the carriage bolt as shown in Figure 5. Position the spring arm behind the nut and against the lockwasher on the carriage bolt. Engage the formed arm of the cam spring with the cam plate, item 10, and with the handle turned to the normal open position twist the cam plate approximately 1/4 turn clockwise (counterclockwise on Catalog Number 1494V-LL1) and drop it over the handle shaft. Fasten the cam plate with the 1/2" (12.7) lockwasher and nut, items 11 and 12.
6. Assemble "O" ring, item 19, and the pivot plate standoff, item 20, to the door with the screw and lockwasher, items 21 and 22.
7. Place the pivot plate, item 23, over the pivot plate standoff and fasten with flat washer, lockwasher and 1/4-20 nut, items 24, 25 and 26. **Note:** Steps 6 and 7 are the same for the third roller assembly, Catalog Number 1494V-L2, when used.
8. Secure the locking bar, item 27, to the pivot plate(s), item 23 and the cam plate, item 10, with the pivot pins, item 28, and the retaining rings, item 29.
9. Fasten the defeater actuator, item 30, to the locking bar with the two #10 lockwashers and 10-24 x 5/16" screws provided, items 31 and 32.
10. Fasten the roller assemblies, item 33 to the pivot and cam plates with the 10-32 x 1/2" screw assemblies, item 34. Nominal enclosure dimensions will require one (1) 1/8" (3.2) shim for each roller assembly.
11. Make sure all fasteners are tightened securely.

Note: Dimensions shown in parentheses are in millimeters.

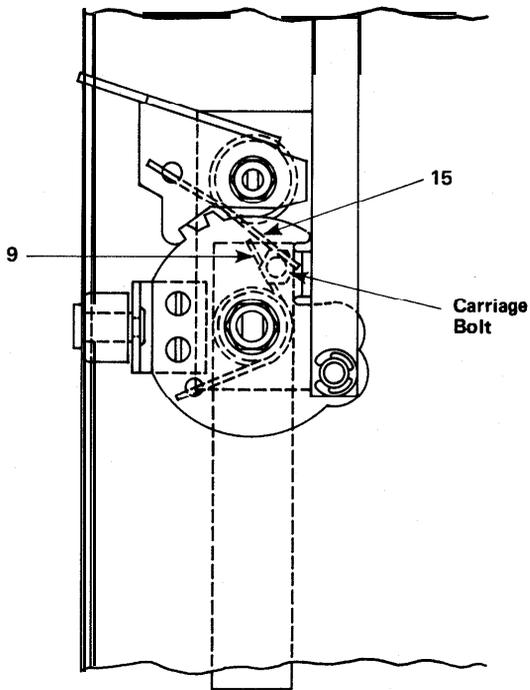


FIGURE 5

NOTE: The following instructions are for a right hand flange installation. On a left hand flange installation substitute the words left for right, clockwise for counterclockwise, and right for left as they appear.

DOOR HARDWARE ADJUSTMENT

1. Close the enclosure door and slowly turn the handle to the right (counterclockwise) until the first notch on the cam plate is engaged. At this point positive gasket seal should be obtained with proper roller adjustment. When seal is obtained further adjustment to the defeater actuator lever may be required if the disconnect means operating handle can be moved to the "On" position.
2. Rotate the door handle further to the right. Relocate the defeater actuator if necessary so that the disconnecting means "On" position occurs well before the fully latched (vertical) door handle position has been attained.
3. To open the door, with the disconnecting means in the "Off" position, turn the recessed door defeater screw, hold and simultaneously turn the handle to the left and pull.
4. Close the door, turn the door handle to the fully latched position and place the disconnecting means in the "On" position. Turn the recessed door defeater screw, hold and at the same time turn the door handle to the left and pull. The door should open only partially until the door catch engages the operating handle defeater bracket (if the door opens, the door catch must be lowered). To open the door, maintain the force on the handle and turn the recessed defeater screw in the operating handle.
5. The door handle has provisions for locking in the fully closed position. To lock, pull out the handle padlocking bar, Figure 4, and insert a 3/16" (4.8) minimum to 3/8" (9.5) maximum lock hasp.

NOTE: Dimensions shown in parentheses are in millimeters.

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