REMOTE OPERATING MECHANISM

Used With Circuit Breaker Mechanisms

Catalog Numbers 1494V-M31 and 1494-M32

GENERAL INFORMATION

1. This supplement provides specific information to be used in conjunction with Publication 1494V-5.7; **Dual and Remote Operating Mechanism Instructions.**
2. Refer to this supplement for enclosure construction and installation procedures when using Catalog numbers 1494V-M31 and/or 1494V-M32 circuit breaker mechanisms. For channel support and door hardware installation instructions, refer to the main instructions (Publication 1494V-5.7) copy.
3. Figures 1A, 2A and 5A are contained in this supplement. All other figures referred to are located in the main instructions.

APPLICATION NOTES

1. These mechanisms will permit mounting of the operating handle either above or below the circuit breaker for remote operation. **NOTE:** These mechanisms can **not** be used for dual applications.
2. Catalog numbers 1494V-H9 and 1494V-W9 are designed for use on enclosures with right hand flange construction.
3. Catalog numbers 1494V-HL9 and 1494V-WL9 are designed for use on enclosures with left hand flange construction.
4. Use on enclosures with flange thickness from 16 Ga. (1.5) to 3/16 (4.8).

ENCLOSURE INSTRUCTIONS

1. Check all enclosure and door dimensions required per the instruction sheets for the circuit breaker mechanism and the door hardware kit being installed to ensure that all minimum dimensions are being maintained. **NOTE:** For applications with door hardware kits also refer to either Figures 5 and 6 (Catalog numbers 1494V-L1, LL1 and L2) or Figure 7 (Catalog numbers 1494V-L3 and LL3).
2. Provide flange slots and holes per Figure 1 and the circuit breaker mechanism instruction sheet.
3. Locate the holes required to mount the circuit breaker as shown in Figure IA, Figure 2A, and circuit breaker mechanism instruction sheet.
4. Locate and mount the door catch bracket per the circuit breaker mechanism instruction sheet unless a door hardware kit (Catalog numbers: 1494V-L1, LL1, L2, L3, or LL3) is used.

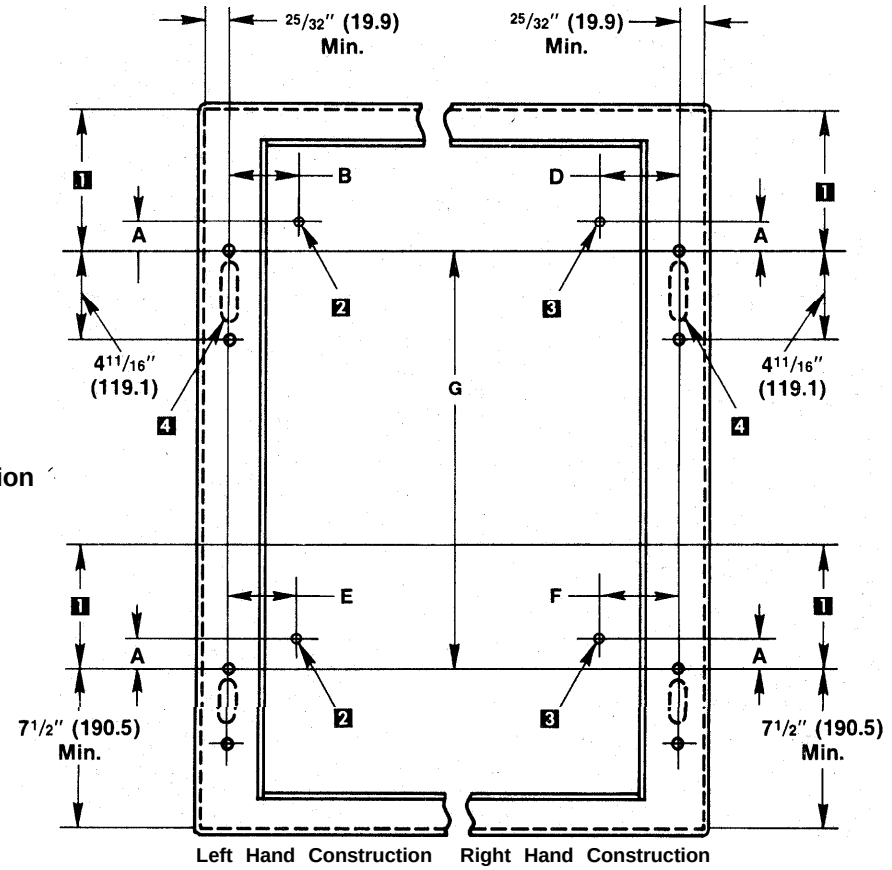
INSTALLATION INSTRUCTIONS

1. Cut and drill the connecting bar as shown in Figure 3. Measure the "G" dimension on your enclosure as shown in Figure 1A. **Do not** exceed the minimum and maximum limits given in the dimension chart of Figure 2A. **NOTE:** These 1/4" (6.4) x 5/8" (15.8) standard mill rectangular connecting bars are not supplied with these kits.
2. Remove the hitch pin, washer, and pivot plate assembly from the main drive mechanism, Figure 4. Slide the connecting bar onto the pivot plate assembly and reassemble the main drive mechanism. **NOTE:** The main drive mechanism is the assembly without a connecting link.
3. Remove the other hitch pin, 1/4" I.D. washer, and the spring anchor and four 3/8" I.D. washers or the connecting link from the main drive mechanism assembly, Figure 4. Insert the operating handle connecting link through the flange slot and onto the shaft of the pivot plate assembly as shown. Secure the drive mechanism assembly and operating handle to the flange with the two 1/4-20 x 5/8" screw assemblies. The gasket must be installed in the handle housing groove as shown in Figure 4.
4. Final main drive mechanism assembly. NOTE: Reassemble the four 3/8" I.D. washers, spring anchor, 1/4" I.D. washer, and hitch pin removed in step number 3.
5. Remove the hitch pin, washer, and pivot plate assembly from the remote drive mechanism, Figure 4. Fasten the remote drive mechanism bracket to the enclosure with the flange plate, gasket, lockwashers and 1/4"-20 nuts provided.
6. Slide the connecting bar onto the pivot plate assembly and reassemble the remote drive mechanism.
7. Cut the connecting rod (Catalog number 1494-RA1 or 1494V-RA2) and turn it into the circuit breaker mechanism drive bar per its instruction sheet. **NOTE:** Depending on your enclosure flange thickness the initial installation may require several extra turns.
8. Mount the circuit breaker mechanism, assemble the connecting link and rod, and adjust the connecting rod per the circuit breaker mechanism instruction sheet. **NOTE:** Do not use the locking plate furnished with the circuit breaker drive mechanism. Install the locking plate furnished with these kits as shown in Figure 5A. Secure it in place with the hitch pin.
9. Attach the handle return springs as shown in Figure 4.
   A. Place the spring in the outside groove of the connecting link on the remote drive mechanism.
   B. Main drive mechanism. NOTE: Attach the spring to the spring anchor.
10. Assemble the defeater bracket, and fasten and adjust the door catch per the circuit breaker mechanism instruction sheet.

NOTE: Dimensions shown in parentheses are in millimeters.

40050-246-01(A)

FIGURE 1A
Enclosure Construction



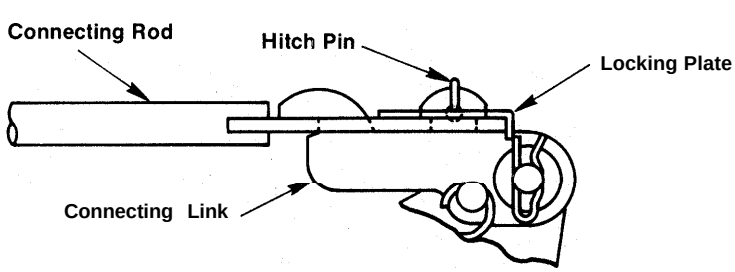
1 Refer to "C" dimension on circuit breaker mechanism instruction sheet for wire bending space.
2 Upper left hand 1/4"-20 mounting hole.
3 Upper right hand 1/4"-20 mounting hole.
❑ Slot not required to mount the remote drive mechanism. Flange plate for mounting the remote drive mechanism will close the slot when a standard enclosure is used.

FIGURE 2A — Dimension Chart (in inches)

Disconnecting Means	A	B [5]	D [5]	E [6]	F [6]	G	
						MIN.	MAX.
1494V-M31	1-9/32 (32.5)	2-9/32 (57.9)	2-9/32 (57.9)	2-9/32 (57.9)	2-9/32 (57.9)	9 (228.6)	36 (914.4)
1494-V-M32	1-21/32 (42.1)	2-13/16 (71.4)	2-13/16 (71.4)	2-13/16 (71.4)	2-13/16 (71.4)	9 (228.6)	36 (914.4)

❑ These dimensions apply when the circuit breaker is located **above** the operating handle.
❑ These dimensions apply when the circuit breaker is located **below** the operating handle.

FIGURE 5A



NOTE: Dimensions shown in parentheses are in millimeters.

ALLEN-BRADLEY
Milwaukee, Wisconsin 53204