

3M™ Locator Plate 3443-82-XX Instruction Guide for the assembly of 3M™ Ribbon Cable Sockets, Series 451

General

The assembly of 3M™ Ribbon Cable Sockets, Series 451 .05" x .05" and 3M™ Flat Ribbon Cable .025" can be accomplished when using the durable metal 3M™ Locator Plates, Series 3443-82-XX and the 3M™ Assembly Press, Models 3640 and 3335.

A customer 3D printed 3M™ Locator Plate 3443-81-XX option is available for lower volume applications. See drawing 78-5100-2644-2 and Instructions Guide 78-9102-1086-9.

Connector Part Number	Locator Plate Number	Platen Part Number	3436-1K Shut Height Setting	
			Press 3640/3316	Press 3335
45104	3443-82-04	3442-9	7	7.5
45106	3443-82-06	3442-9	7	7.5
45108	3443-82-08	3442-9	7	7.5
45110	3443-82-10	3442-9	7	7.5
45112	3443-82-12	3442-9	7	7.5
45114	3443-82-14	3442-9	7	7.5
45116	3443-82-16	3442-9	7	7.5
45120	3443-82-20	3442-9	7	7.5
45126	3443-82-26	3442-9	7	7.5
45130	3443-82-30	3442-9	7	7.5
45134	3443-82-34	3442-9	7	7.5
45140	3443-82-40	3442-9	7	7.5
45150	3443-82-50	3442-9	7	7.5

Locator Plate Features

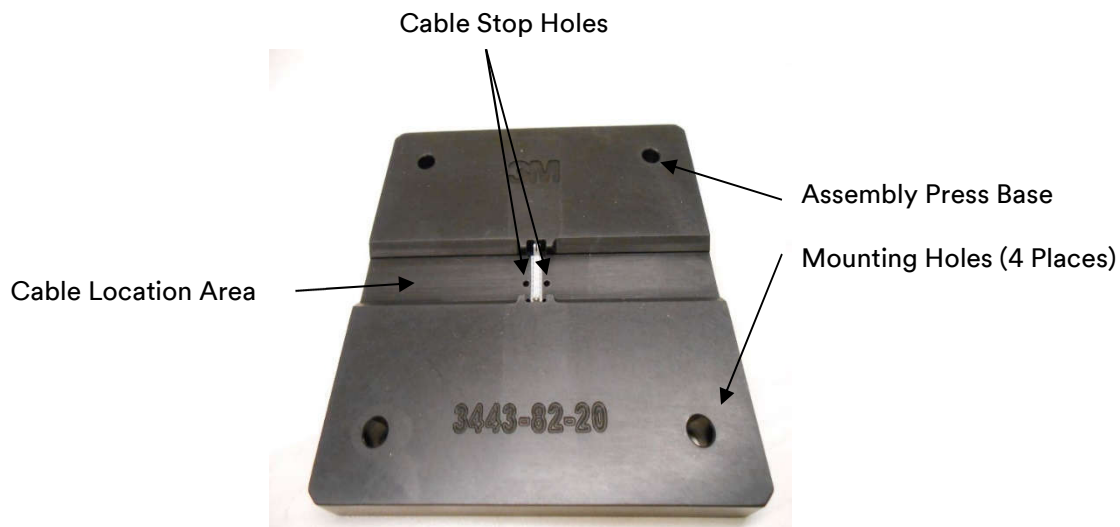


Figure 1: 3M™ Locator Plate 3443-82-20

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Procedures for Adjusting the Press Shut Height

The shut height should be adjusted from the base before the locator plate is put into place. The 3M™ Assembly Presses 3316 and 3640 are adjusted with a knob at the top of the press. The 3M™ Assembly Press 3335 is adjusted with the collar on the press shaft and 3M™ Assembly Press 3830 is self-adjusting.

The shut height adjustment is made from the base of the assembly press without the locator plate or platen in place. Lower the handle of the press until the handle casting makes contact with the press casting (See Figure 2)

Place the shut height gauge across the press base.



Figure 2

Rotate the shut height to lower or raise adjustment feature until the bottom of the shaft tightly contacts the desired position on the shut height gauge. (See Figures 3 and 4)



Figure 3



Figure 4

Install the 3M™ Locator Plate and the appropriate platen on the press. The platen should be positioned parallel with the connector body and cover. (See Figure 5)



Figure 5

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Procedures for Cable Termination

Before assembly of the connector can take place, the cable end must be cleanly cut with a sharp blade. The end must be at a 90 degree angle to the length of the cable.

Place the cover into the locator plate. (See Figure 6)



Figure 6

Slide the properly sized ribbon cable onto the cover in the locator plate (See Figure 7). 0.0625" diameter dowel pins can be used in the cable-stop location holes if so desired. Cable-stop location holes are not available on sizes 4, 6, 8 and 10.



Figure 7

Place the socket connector onto the cover over the cable, verifying the pin 1 indicator is in the correct position. (See Figure 8)



Figure 8

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Bring the handle of the press down until the IDCs press into cable and the connector fully seats into the cover. (See Figure 9)



Figure 9

Visually inspect termination to ensure that:

- Cover is fully seated and parallel to the body. Cover latches are fully engaged.
- Cable is properly aligned with the cover
- Cover retaining devices on the body are flush with the cover ends (See Figure 10)

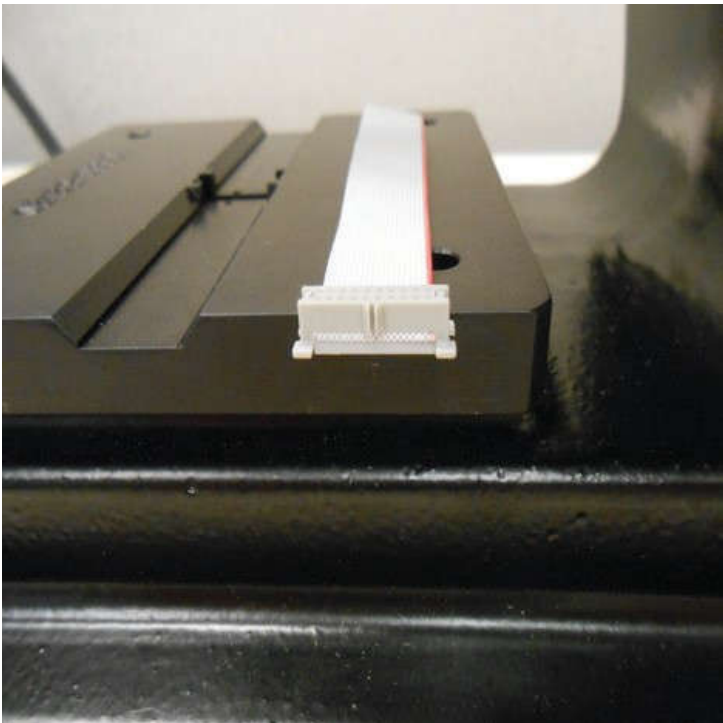


Figure 10

3M™ Locator Plate 3443-82-XX Instruction Guide for the assembly of 3M™ Ribbon Cable Sockets, Series 451 Strain Relief Attachment

Fold the cable back over the cover. (See Figure 11)



Figure 11

Place the strain relief in the connector over the cable, sliding the strain relief into the slots of the connector. (See Figure 12)

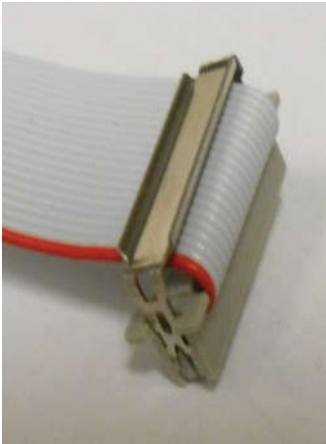


Figure 12

Press the strain relief down until the strain relief snaps into the correct position on the connector. (See Figure 13)

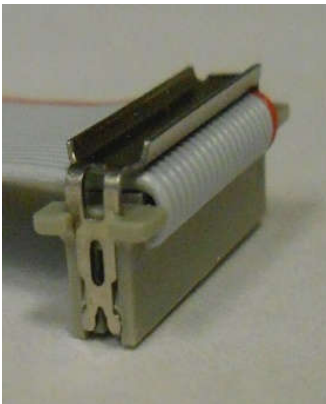


Figure 13

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