Replacement Boards

Models	Description
MSDA-RM-1	Replacement relay/power supply board
MSDAB-1	Replacement controller board, Trip output
MSDAL-1	Replacement controller board, Latch output

Board Removal (figures 1 - 3)

1) Remove the wiring barriers (leaving the wires connected to them, if possible) by gently prying each barrier out and off using a flat-blade screwdriver (**Figure 1**).

2) Remove the module cover by placing the blade of a small flat-blade screwdriver in the slot located along the inside of either wiring barrier, and gently prying the cover open (**Figure 2**). The cover is not hinged; it will come completely off.

3) The controller board must be removed, first. Gently push the sides of the module housing outward (at the top corners) to dislodge the two locking tabs on the controller board assembly from the slots in the sides of the housing (**Figure 3**). Pull the controller board straight out of the module housing, and disconnect the ribbon cable where it connects at the relay/power supply board (press in the tab on the connector to release).

4) To unlock and remove the relay/power supply board, gently push the sides of the housing (as in step 3), and pull the board straight out of the module housing.
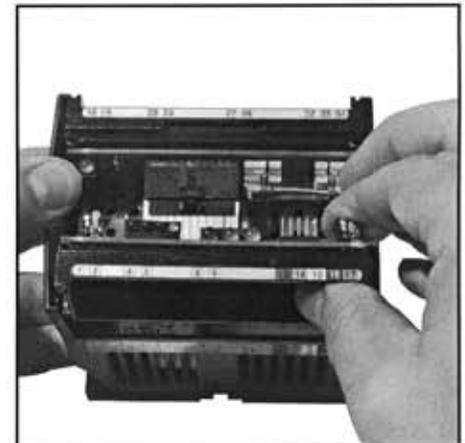

Figure 1.

Figure 2.

Figure 3.

MINI-SCREEN® DIN-style Controller Board Replacement

Installing the Replacement Boards (figures 4- 6)

Figure 4.

1) The boards install in reverse order: first the relay/power supply board, and then the controller board.

2) Align the board edges with the slots on the inside of the module walls – use the slots which are closest to the module walls. Slide the relay/power supply board into the module. Apply pressure on the top edge of the board until the locking tabs on the board assembly engage the slots in the sides of the housing. Squeeze the sides of the housing to fully engage the tabs into their slots (**Figure 4**).

3) Connect the ribbon cable to the controller board. Double-back the ribbon cable before sliding the controller board into the module housing (**Figure 5**). Install the controller board as in Step 2.

4) Replace the acrylic cover by positioning one long edge and pushing the opposite edge down to snap it into place (**Figure 6**).

5) Re-mount the module and replace the wiring barriers by simply pushing them into their receptacles. Take care to match the terminal labels on the wiring barriers with the terminal labels on the board headers.
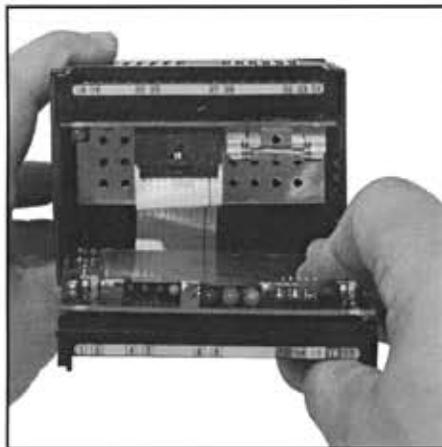

Figure 5.

Figure 6.

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