MSA Series Replacement Power Supplies

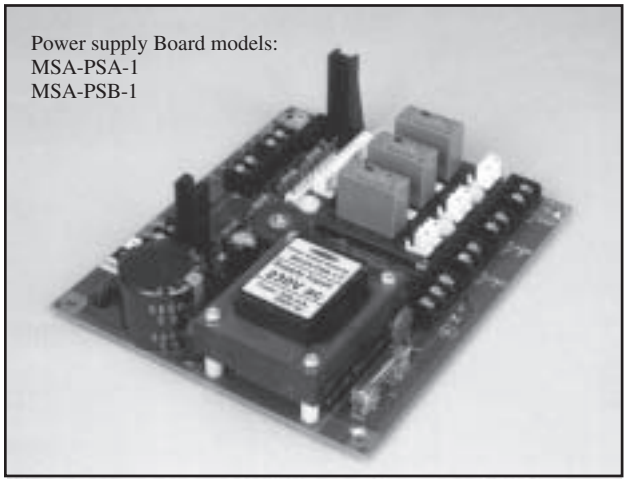
Models MSA-PSA-1 and MSA-PSB-1, for MINI-SCREEN™ Systems

BANNER®
the photoelectric specialist

These are replacement power supply boards for Banner safety light screen control boxes. New relay modules are included. This replacement procedure covers the following power supply boards:

Board Model	REPLACEMENT for control box models
MSA-PSA-1	MSCA-1
MSA-PSB-1	MSCB-1

WARNING! Before performing any work inside the control box, always remove all power from the control box and from the machinery to which the control box is connected. Failure to do so can result in electrical shock and serious injury or death.



Removing the old power supply board

1) Before opening the control box cover, remove all power to the control box and to the machinery to which the control box is connected. Open the control box cover.

2) The controller module must be removed to access one of the screws. To remove the controller module, grasp the module with both hands and gently pull it outward, away from its sockets. Rock the module gently from side to side until it comes free of the connector sockets.

3) Remove all wires from barrier strips TB1, TB2, TB3, and TB4.

4) Remove the six screws that hold the power supply board to the control box (see drawing, below; mounting screws are shaded gray). Remove the power supply board from the control box.

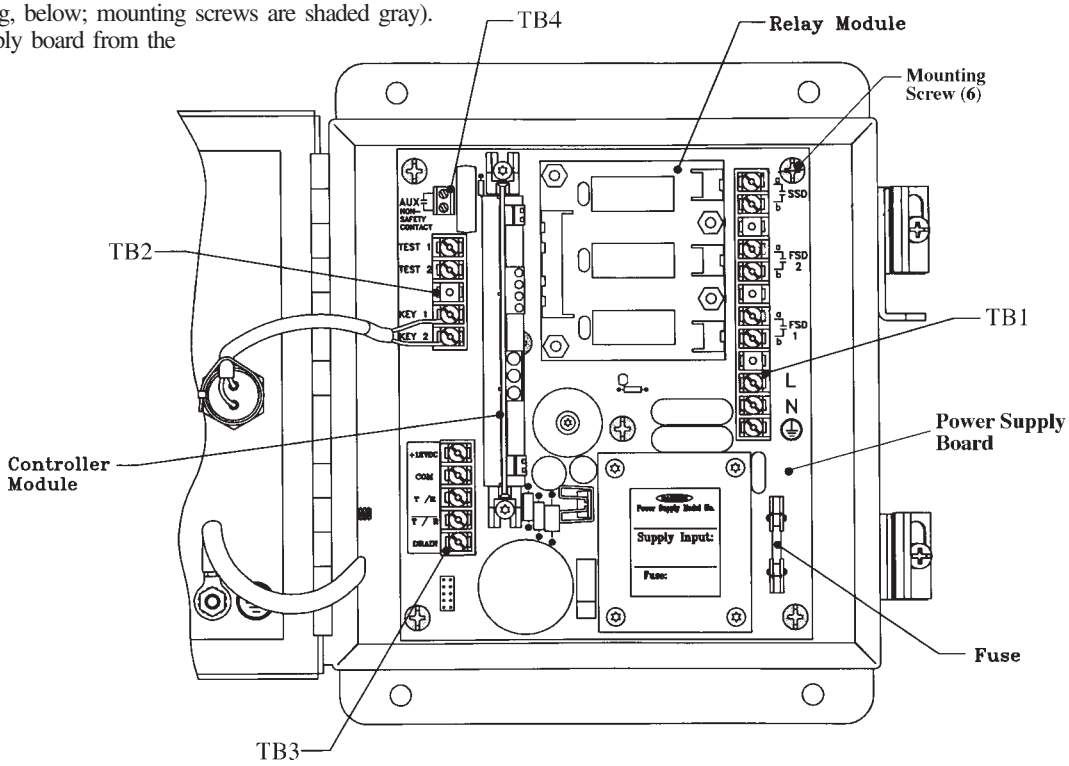
Installing the new power supply board

1) Place the new power supply board into the control box and align the six mounting holes. Then follow steps 2 through 4 (left) in reverse order. NOTE: A spare set of six screws is provided.

Insert and tighten the six mounting screws.
Reconnect wiring at barrier strips TB-1, TB-2, TB-3, and TB-4.
Slide the controller module back into position.

2) Refer to the system instruction manual and perform the *Commissioning Checkout Procedure* found there.

If you have any problems or questions, contact the Banner Applications Department at (612) 544-3164.



Printed in USA P/N 41029

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