

# MACHINE-GUARD System

## PGA-PSA-1 and PGA-PSB-1 Power Supply Board Assemblies

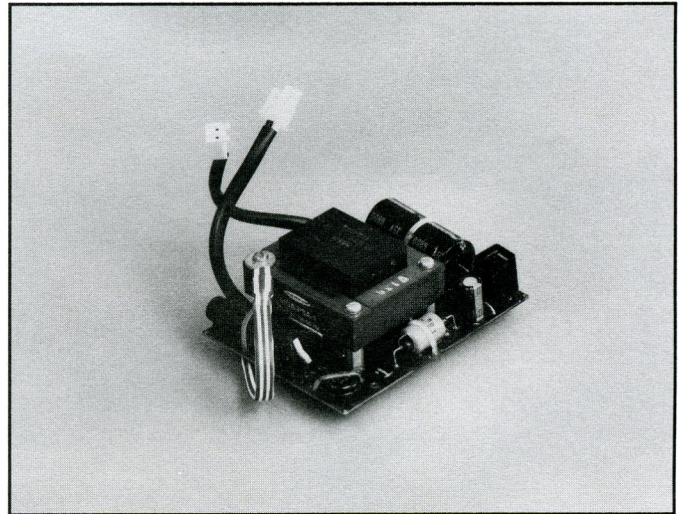


Banner power supply board models **PGA-PSA-1** and **PGA-PSB-1** (right) are replacement power supply board assemblies for use in the MACHINE-GUARD System model MGCA-1, -2, -3, -4, and -5 and MGCB-1, -2, -3, -4, and -5 BEAM-ARRAY™ control boxes and the PERIMETER-GUARD System PGCA-1 and -2 and PGCB-1 and -2 control boxes. Model **PGA-PSA-1** is for 115V ac operation. Model **PGA-PSB-1** is for 230V ac operation.



### WARNING!

Before performing any maintenance 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 Power Supply

- 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. Refer to the drawing, below.
- 2) The Power Supply Assembly is connected electrically to the relay board by connectors at P1 and P11, and by a green/yellow striped ground lead. Unlock P11 by pressing down on the connector's locking lever as you pull the connector free. P1 will come free with reasonable pressure.
- 3) The power supply is held to the control box by four #6-32 x 1/2" screws and the green/yellow striped ground lead. Remove the four screws. Carefully lift the power supply board and lay it atop the relay cover. Remove the ground lead from the chassis ground stud. Lift the power supply board clear of the control box.

### Installing the Power Supply

- 1) Remove all power to the control box and to the machinery to which the control box is connected. If you are replacing the power supply board, remove it following the procedure at the left. Refer to the drawing, below.
- 2) Set the power supply board atop the relay cover, and connect the green/yellow striped ground lead and the green ac ground lead from the ac power cord to the chassis ground stud.
- 3) Install a nylon flat washer on each of the four #6 screws. Position the power supply board against the side of the control box so that the four spacers line up with the screw holes. Insert the four screws and tighten them securely.
- 4) Press the two connectors into place at P1 and P11. The two small projections on plug P1 must face to the left. The locking lever on plug P11 must face up (toward the relay cover).

### Assembly drawing, model PGA-PSA-1 or PGA-PSB-1 Power Supply Board Assembly

