

OPERATING INSTRUCTIONS &
CONNECTIONS

SA250B & SA500B SA SERIES POWER AMPLIFIERS

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The SA series power amplifiers are two rack heights (88mm), desk or rack mounting. They have a screwdriver accessible gain control on the front panel, an L.E.D. Vu meter and an on/off mains switch.

SETTING UP

The factory setting for the front panel gain control is 1 volt RMS. The sensitivity can be reduced by turning the control counter - clockwise. To increase sensitivity, turn the same control clockwise.

PANEL CONTROLS

GAIN:

Screwdriver adjustable potentiometer on the front left of the panel, as indicated.

HIGH TEMPERATURE :

A light emitting diode (L.E.D.) which is labelled "HI - TEMP", will glow if the amplifier is reaching abnormal operating temperatures. This condition can be caused by insufficient ventilation or extreme overloading of the amplifier.

If the L.E.D. glows for more than a few minutes, the amplifier should be turned OFF and a Service Technician consulted.

MAINS FAILURE:

The light emitting diode (L.E.D.) which is labelled "MAINS FAILURE", will glow if the 240/120 vac mains power is not available to the amplifier. In this case, the amplifier will operate from 24 volts DC providing it is connected to the appropriate terminals at the rear of the amplifier, (see diagram on opposite page).

V.U. METER:

The collection of red and green light emitting diodes (L.E.D.S) marked "dB" and scaled +3 to 21, indicates volume level from the amplifier. For normal operation, the lights will glow GREEN, as they modulate with the audio level. If the lights glow RED, consistently, the amplifier is probably being over-driven. This will result in a distorted audio signal and also create high operating temperatures for the amplifier. The input gain should be reduced until the VU meter indicators are displaying GREEN.

MAINS POWER

The push - button marked " POWER " turns the mains power to the amplifier ON or OFF. A RED lamp glows when the power is ON.

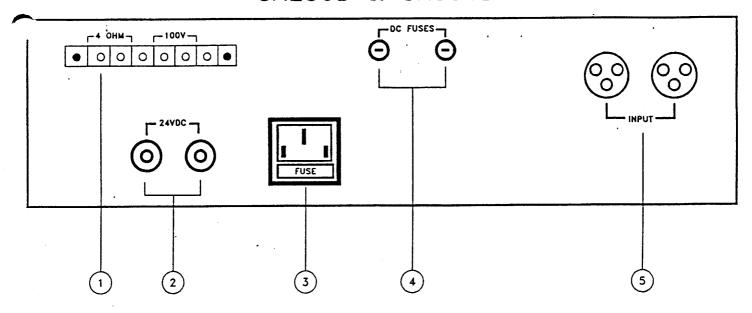


FIG 1

- (2) 24 volts DC power source input. Two post terminals RED + and BLACK -.
- (3) .3 pin IEC mains power inlet, 240/120 vac with built-in fuse, which is accessible by means of a sliding drawer. Ensure the correct replacement fuse is installed, an incorrect rating may damage the amplifier.
- (4). DC low voltage fuse. Remove by means of a screwdriver, ensure mains and 24 VDC is disconnected before attempting replacement.
- . (5) INPUT SOCKET Balanced 10k ohm X.L.R. style input dual sockets which provide bridged in/out connections. Both sockets are connected as follows:

 EARTH pin 1 ACTIVE INPUT pin 2 & 3 (transformer balanced)

FUSES

SA250B	MAINS 3 AMPS	
	LOW VOLTAGE DC	TWO X 10 AMPS
SA500B	MAINS 5 AMPS	
	LOW VOLTAGE DC	TWO X 20 AMPS