



**OPERATING INSTRUCTIONS
&
CONNECTIONS**

**SA250B & SA500B SA SERIES
POWER AMPLIFIERS**

OPERATING INSTRUCTIONS AND CONNECTIONS SA250B AND SA500B POWER AMPLIFIERS

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**.

