

## Threshold

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### STANDARD AMPLIFIER BIAS PROCEDURE

February 1991

#### INTRODUCTION

In order to satisfactorily bias a THRESHOLD audio power amplifier, it is necessary to have the following test equipment available:

1. A variac rated at 30A. (100/120 VAC), or 15A. (220/240 VAC).
2. An AC voltmeter to read the output voltage of the variac.
3. An AC current meter reading up to 10A. AC (for 100/120 VAC), or 5A. (for 220/240 VAC) to read the line current.
4. A temperature meter with probe calibrated in degrees centigrade.

In biasing a THRESHOLD power amplifier, it must be remembered that you first set the idle bias by directly reading the idle current, and then FINALIZE THE SETTING ON THE BIAS OF TEMPERATURE ALONE.

#### BIAS SETTING PROCEDURE

To begin, the amplifier must be started from "cold" with no input or load connected, and the working area must be at a normal room ambient temperature.

1. Power up the amplifier with the variac, voltmeter, and ammeter already connected.
2. Set the line voltage at 120VAC (or 100/220/240VAC as appropriate).
3. Check the AC line current. It should be within the following range:

<u>VOLTAGE</u>	<u>SMALL AMPS</u>	<u>LARGE AMPS</u>
100/120V.	0.8 to 2 A.	2 to 6 A.
220/240V.	0.5 to 1 A.	1 to 3 A.