## **Adjustment Procedures for Parasound Amplifiers**

The only adjustment necessary for Parasound amplifiers is for bias voltage. Since all Parasound amplifiers are DC servo controlled, there is no DC offset adjustment.

- 1. With the amplifier off, connect a DC voltmeter across any of the emitter resistors connected to the output devices.
- 2. Set the voltmeter to the millivolt range.
- 3. Refer to specific amplifier schematic to locate the bias potentiometer.
- 4. Turn on the amplifier with no signal applied or load connected.
- 5. Use a small trim screwdriver to adjust the potentiometer.
- 6. Turn the potentiometer to adjust bias voltage for each channel. USE CAUTION-DO NOT ALLOW BIAS VOLTAGE TO EXCEED 50% OF LISTED SETTING DURING ADJUSTMENT.
- 7. Make the initial bias setting from the table below.
- 8. Let the amplifier warm up for 30 minutes to confirm the bias is within tolerance.
- 9. Readjust the bias as necessary.

## **Bias Settings for Parasound Amplifiers**

Model Number	Heatsink Temperature	Bias Voltage	Tolerance
HCA-3500	40-45 C	22 mV	+/- 2 mV
HCA-2200II	40-45 C	20 mV	+/- 2 mV
HCA-2205A	40-45 C	15 mV	+/- 2 mV
HCA-1500A	40-45 C	15 mV	+/- 2 mV
HCA-1206	40-45 C	8 mV	+/- 2 mV
HCA-1205A	40-45 C	10 mV	+/- 2 mV
HCA-1203A	40-45 C	10 mV	+/- 2 mV
HCA-1200II	40-45 C	10 mV	+/- 2 mV
HCA-1000(A)	40-45 C	10 mV	+/- 2 mV
HCA-806	40-45 C	10 mV	+/- 2 mV
HCA-750A	40-45 C	10 mV	+/- 2 mV
HCA-600	40-45 C	10 mV	+/- 2 mV
Zamp	40-45 C	3 mV	+/- 1 mV

## **Special Bias Adjustment Procedures for the Parasound HCA-3500**

The bias tracking circuit of the HCA-3500 requires being set with no signal applied and again with a signal applied. When the HCA-3500 has an input signal connected, The bias rises to its high level setting.

- 1. Connect a DV voltmeter (in the millivolt range) across any of the emitter resistors.
- 2. With no signal applied, adjust TVR 1 until the bias level is 3 mV +/- 1 mV
- 3. Apply a 1 kHz sine wave to both inputs of the HCA-3500 Do not connect a load to the output.
- 4. Adjust TVR 3 until the bias level is 20 mV +/- 2 mV.
- 5. Confirm that the bias has remained at 20 mV + /- 2 mV.