

## 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.