NOTE: ATTACHED TO HEAT SINK
ALL BUSES & 30V HV UNLESS NOTED

130 WATT POWER AMP

TRANSISTOR CROSS REFERENCE LIST

2SB5400 — TIP35C
2SA1943 — TIP35G
2SD349 — 6550
2SC5200 — 6550
6010 — 2077Z
15062 — 2270E
690 — 2N4240

260 MODULE / 260 BOOSTER PREAMP

P/N B1505051

REVISED (5/21/85)

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The new 260 Stereo Booster uses four high voltage 30 amp power devices in each channel to deliver 130 watts RMS per channel, both channels driven simultaneously into 4 ohms, with a frequency response of 20 Hz to 20 kHz. One channel can deliver as much as 140 watts RMS. The output devices are mounted on a massive aluminum heatsink for continuous duty. Additional thermal protection is afforded by our thermal compensation circuit designed for instantaneous Voltage-Current limiting as well as the integral thermal cutout switch to prevent damage to the amplifier in the event that the output is shorted. The Voltage-Current limiting and Thermal cutout are separate protection designs for each channel so that one channel can remain operational in the case of a thermal problem in the other.

Paralleled input connectors permit bridging several boosters together for increased output or the use of electronic crossovers. The input circuit is arranged for overload protection and the level control is able to accept a very wide range of input voltages including speaker levels.

**SPECS**

- **Frequency response:** ±1 dB 20 Hz to 20 kHz @ 1 W, 4 ohms
- **Power @ clipping:** Typically: 1% THD, 1 kHz, 120 VAC line

- **Each channel driven:**
  - 140 W RMS into 4 ohms
  - 90 W RMS into 8 ohms

- **Both channels driven:**
  - 120 W RMS into 4 ohms
  - 90 W RMS into 8 ohms

- **Intermodulation distortion:** Less than 0.3% from 0.5 W to 100 W, typically 0.1%
- **Total harmonic distortion:** Less than 0.1% from 0.5 W to 100 W 20 Hz to 20 kHz, typically .05%
- **Hum & noise:** 90 dB below 130 W RMS output, 20 Hz to 20 kHz
- **Slew rate:** 3 V per micro-second
- **Load impedance:** 4 ohms or greater (stable into any load configuration)
- **Damping factor:** Greater than 40 (1 kHz, 4 ohms)
- **Input sensitivity:** 0.9 V RMS for 130 W into 2 ohms
- **Input impedance:** 15 K ohms (input overload protected)
- **Load protection:** Short, mismatch, open-circuit proof
- **Current limiting instantaneous with no thumps or cut-off**