

Ultra-Lead Bias Procedure

- 1) Connect signal generator, scope and 8Ω100W non-inductive load.
- 2) Set Standby switch to OPERATE HI and MUTE switch to ON. Set Presence and Depth (if equipped) to full CCW position and impedance selector to 8 Ohms. Set output tube bias with voltmeter connected between one output transformer primary plate tap and center tap (load side of DC fuse holder).
- 3) Set Bias to 48-52 mA. Typical voltage from B+ to BRN or BLU pads on power PC board is 1.8 – 2.5 VDC. Keep sides within 20 % of each other. Primary DC Resistance for output transformer #16411A = 25 ohms. 2.5V/ 25 Ohms = 100mA. Resistance for output transformer #16411B = 22 ohms. 2.5V/ 22 Ohms = 104mA.
- 4) Set signal generator to 500mV and connect signal to Effects Return and activate effects loop.
- 5) Test for 100 Watts at 120VAC line across an 8 Ohm load before clipping.
- 6) Observe output sine wave for minimum visible crossover distortion.
- 7) Visually inspect power tubes under low light condition for signs of excessive plate dissipation.

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AMPLIFIER BIASING IS A CRITICAL ADJUSTMENT. CORRECT BIASING PROCEDURE REQUIRES PROPER TEST EQUIPMENT AND REASONABLE EXPERIENCE IN EVALUATING AMPLIFIER OPERATION AND PERFORMANCE PARAMETERS.

It is assumed that the person performing the procedures contained herein is qualified to do so. SFD staff are only permitted to support trained service personnel.

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Schematics are only released to authorized SFD Service Centers.

WARNING: HIGH VOLTAGE INSIDE. TO PREVENT SERIOUS INJURY OR DEATH, PLEASE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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