

1. OUTPUT TUBE IDLE CURRENT ("BIAS")

The output stages of the D79C are partially cathode coupled "push-pull parallel Class AB₁," utilizing our tightly-coupled output transformers which provide low distortion and sonic accuracy.

As shipped from the factory, the output bias adjustments are set for a nominal 65mA cathode current per tube with a stable power line of 120 Volts. This point of operation provides "enriched" Class AB₁, and will satisfy most critical listeners.

Make sure adequate ventilation is provided to prolong tube life.

1A. "BIAS" ADJUSTMENT PROCEDURE

For best results operate and adjust the D79C at 120VAC line voltage, or at the line voltage that is typical in the final installation. Adjustments should be made under zero-signal conditions after at least 15-20 minutes of uninterrupted stabilization time. There may be a slight interaction between the 4 output tube bias adjustments, so recheck the first tube current after adjusting the other three, etc., until you are certain that all are correct and stabilized.

Select the desired tubes (V15, V16, V17, V18) with the Bias/Operate switches and adjust at the corresponding control at the lower edge of the front panel for identical readings between the 2 tubes on each channel, within about 1/16" of meter deflection. Use the plastic alignment tool supplied with the D79C. Each reading should be within $\pm 1/4$ " of the top of the green band on the meter scales. This adjustment usually corresponds to lowest 1kHz total distortion (typically less than 0.1% at 75 Watts) into 16 ohms. If identical cathode currents or low distortion cannot be achieved, change to a new matched pair of output tubes (matched within 5%).

CAUTION: Always return the "Bias/Operate" switches to "Operate" after completing the adjustments, before applying input signals to the unit. This will minimize meter "pinning" during large signal operation.