

VT50 SETUP INSTRUCTIONS WITH COMPLETE RETUBE

- 1) Install 6922s only. Leave output tubes unplugged.
- 2) Turn on amp. Locate pin 5 of either output tube socket in each channel. (Count counter-clockwise from key).
Adjust each channel's bias trimpot for maximum negative bias voltage, measured from pin 5 to ground (4 ohm tap).
- 3) Turn off amp. Install 4 output tubes. Turn amp on.
- 4) Adjust RV1 Trimpot for +60VDC operating point both channels. (+60V noted on diagram).
- 5) Adjust RV3 trimpot for +170VDC operating point both channels. (+170V noted on diagram)
- 6) Adjust RV2 trimpot for OVDC at R11, 13 or R12, 14 both channels. (OV noted on diagram).
7. Check driver operating points, should be +170VDC plus or minus 10V balanced for maximum of 20V spread. Select tubes as needed.
- 8) Recheck 60V input operating point both channels.
- 9) Adjust output tube bias to 50MV DC both channels, across each channel's bias test resistor (located at top of each board, between pairs of output tubes.)
- 10) Allow amp to warm up 20 minutes. Set bias to 65mV both channels.
- 11) If test equipment available, verify channel-to-channel balance is < 1/4 dB. If not, power down, swap around 6922s. Turn on. Recheck steps 4-8. Recheck channel balance.
- 12) If low distortion test generator and THD analyzer available, typical specs are:
 - 1w @ 1KHz < .03% THD
 - 48w @ 1KHz < 1% THD
 - 48w @ 15KHz < 1.5% THD
 - 48w @ 30Hz < 1.5% THDMeasured into noninductive 16 ohm dummy load.