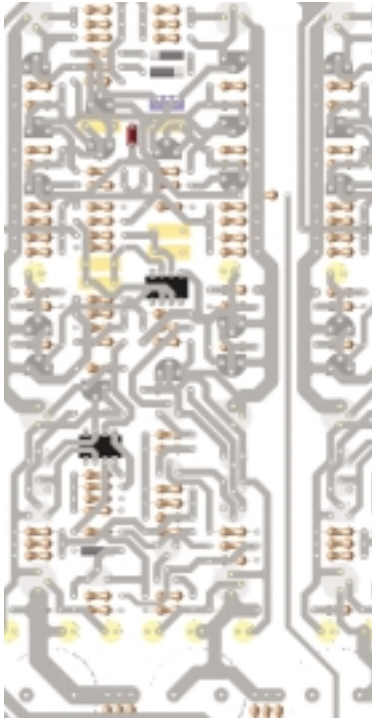


Maintenance



TESTING

1. Connect the + and - supply lines [at the FUSEHOLDERS or RECTIFIER DIODES] to an external current limiting Power Supply with maximum +/- 30VDC output voltage (or use 2 x 30VDC supplies).
2. Rotate the biasing trimpots VR5 & VR5a fully clockwise.
3. Connect the amplifier to a signal source (Sound Technology 1700B or Oscillator) which generates sine waves at 1.0kHz frequency and monitor the input and output on a dual trace Oscilloscope.
4. Power the module on and check that there is no current limiting. You should be able to monitor the amp on the Oscilloscope. (Connect your oscillator to any HIGH LEVEL input, and ensure that MUTING switch is in the UP position, and VOLUME control is at position 9).
5. Measure the voltage drop after the "regulators" [the emitter of Q16, 30] which should be ~20 volts .
6. If voltages are O.K. check the waveform on the oscilloscope, it should show crossover distortion.,
7. Clip a multimeter across any of the 100OHMS output stage emitter resistors [R46,56,55,45] and turn the trimpot anticlockwise until you measure approx. 0.75 VDC across this resistor. Maintain for 30 minutes, adjusting the pot as the amp warms up.
5. DC Offset Voltage at Output. Connect multimeter probes to the intersection of resistors R55 & R56 to measure the DC offset. It should be less than 0.05VDC. If it is greater than this please check the LF351 DC SERVO IC[U1]. Check that they are receiving voltage at Pin 4 (-15V) and Pin 7 (+15V) and replace if necessary.
6. Biasing Trimpot has not effect.
Replace the 2N4401 transistor next to the TRIMPOT.