

April 16, 1992



B500B/G500S TEST PROCEDURE

- 1) CONNECT POWER: Plug test jig into variac. Connect ground wires (green) from main board and power supply board to the gnd clip from the test jig. Connect main board to power supply board: white=AC, red=positive, black=negative.
- 2) CONNECT SIGNAL: Connect outputs to load resistors using 1/4" cables. Turn pots all the way down and input a 6V p-p 2kHz signal into input A.
- 3) Slowly turn up the VARIAC to 117V AC, keeping an eye on the current meter for any jump in current. If there is excessive current, turn off immediately and check transistors Q101-Q105 & the Zener diodes. If the board powers up OK, check for +75V & -75V supply rails on the board.
- 4) Set scope to 50mV/div. and 50us/div. Turn pot up slightly and check for a clean sine wave. Adjust the trim pot for channel A to get rid of any crossover distortion. Switch to channel B and repeat step.
- 5) Unplug all the 1/4" input and output cables. Set VOM to 200mV range and measure from left of R102 to right of R129; it should read from 3.5mV to 6.0mV. Now measure from left of R103 to right of R130; it should read from 0.5mV to 1.0mV. Tweak trimmer so both conditions are satisfied. CW rotation of the trimmer will increase both voltages. Setting the trimmer for 5.0mV for the first reading usually works well. Repeat for channel B.
- 6) Use ohmmeter to make sure that the tabs on the four TIP's are really insulated electrically from the heat sink.

