

April 16, 1992



MICROTUBE 100 TEST PROCEDURE

- 1) CONNECT POWER: Connect the 4-pin IDC connector and the two Standby wires (red) to the open UT100 chassis and turn standby to ON. Clip a heatsink onto the 7912 regulator. DO NOT connect the toroidal xfmr (we'll be using the Heathkit regulated power supply). Take out the fuse on channel A and connect the Heathkit (voltage turned down) to the front (closer to you) of the fuse block. Connect the grounds of the Heathkit, the main board, and the load resistors together.
- 2) CONNECT SIGNAL: Connect outputs to load resistors using 1/4" cables. Turn pots all the way down and input a 6Vp-p 2kHz signal into input A.
- 3) Turn on power on the open UT100 chassis, and set the scope to 10V/div and .5ms/div.

Note: The next step has to be performed quickly to keep the regulators from over-heating.

- 4) Turn up the Heathkit to +58V, keeping an eye on the current meter to make sure it doesn't exceed 25mA. Turn the trim for channel A up until the Heathkit reads between 40 - 50mA. At this point, the voltage across R1 should read between 4.0mV - 5.0mV. Now turn the pot up and check signal for a clean sine wave. Repeat step for channel B.

SECOND TECH:

- 1) Connect power and outputs as described above.
- 2) Input a 6Vp-p 2kHz sine wave into the MONO IN jack. Put a probe on both channel outputs and make sure the outputs are in phase.
- 3) Insert a dummy 1/4" plug into the BRIDGED OUT jack (vertical jack) and make sure the outputs are 180 degrees out of phase.

