

Pin 4 of U209 should be -15V
Pin 8 of U209 should be +15V

Check Volts across temperature devices TH201 and TH701 should be -2.9Vdc.

Measure DC offset on both channels of amplifier output, should be < 10mv. If out select IC U214 channel 1 or U213 channel 2.

BIAS

The bias now needs to be set but drifts with temperature so is set in 2 stages.

Stage 1: measure across R701 (.1R 2.5W) channel 1 using a floating meter, should be 0 Volts.

Adjust bias preset P205 until voltage across R701 is about 2.5mv measure all resistors relating to device outputs on channel 1, 18 in all, make sure they are all in the range 2.2 - 3.5mv.

Do same for channel 2 measuring across R707 (.1R 2.5W) as initial resistor, then measure all other resistors for channel 2.

Stage 2 of Bias setting is done at the end of the test procedure as this has to be done under more controlled conditions and requires the amp to be at maximum operating temperature.

SIGNAL PATH CHECKS

Set amplifier input sensitivity to +10, oscillator source should be 1KHz and turned down all the way.

Plug in a 16 Ohm load to channel 1 output, plug in signal from oscillator but make sure it's turned all the way down, slowly bring the signal level up observing rise in current level on power current meters and PSU signal from current probe.

Increase until amp clip led is on, +/- 90V current meters should read about 2 on the meter scale. Do this test for channel 2.

Wind signal down to -20 using amp level control and change output load to 8 Ohms, do previous test again but observe, at max level the +/-90V current meters should now read about 4 on the scale.

Do this test for channel 2, then wind signal down using amp level control.

Wind variac volts down to 0 Volts, power off and set amp SET LOAD switch to 4 Ohms mode.

Power on, wait for startup sequence to complete then wind variac up to 240V, power rails should now be around 85Volts.

Check current probe signal on the scope while turning variac up, wind input signal up observe current meters should now reach about 6-7 on the scale.