

3A74 Calibration Outline

1. DC Bal. (Front Panel)
2. Position Range (R449) Center all 4 traces around center line.
3. Norm-Invert Shift 1.5cm max. DC Bal must be correct.
4. Check Input Caps & AC-DC Switch
5. Grid Current 2mm max.
6. Output Amplifier Gain (Front Panel) Apply .1v to ch 1. Set Gain Adj. fully cw. Use Variable to obtain 2v at Q463 emitter. Adj Output Amplifier Gain for 40v at pin 6 V464. Check for 40v at pin 6 of V474 =2v.
7. Input Amplifier Gain (Front Panel) Set at .02v/cm.
8. Check Channel Interaction When setting Gain turn adjacent channels on & off checking for gain change in the channel under adjment.
9. Alternate If one or more channels have any curl on the front edge try changing D440, 441, 442, 443 in the channel with the problem.
10. Chopped-Mode Chopping rate 500kc = 25%. If there is more than 1mm of trace thickness ^{try} D440-443 in the channel at fault. If not enough blanking occurs try V533/D595, also check that R593 is a 10k & not a 1k. CHECK VALUE OF R533 432R 1% =3%
11. Attenuator Accuracy
12. Input C & Attenuator Compensations 47pf, 1kc, 4cm deflection.

V/CM	Flat Top	Sq. Corner
.02	ch16	-
.05	ch07B	ch07C
.1	ch09B	ch09C
.2	ch03B	ch03C
2	ch05B	ch05C

C407C (05)	C407B (05)	C403C (2)	C403B (2)
	C416 (02)		
C409C (1)	C409B (1)	C405C (2)	C405B (2)

13. Composite Int. Trig. DC Level (R530) Ch 1 trace to center line. Adj R530 for 0v at pin 11 of 3A74.
14. Ch 1 Int. Trig. DC Level (R521) Trigger switch pulled out & same as step 13.

3A74 Calibration Outline (cont.)

15. HF Compensations (L464, L474)

100kc from 106 to Ch 1 input.
Adj L464, L474 for best corner
& then check Ch. 2, 3, & 4.

16. Bandpass

2mc all channels.

17. Final DC Bal

