1A1 CALIBRATION OUTLINE

PRESETS	
Norm-invert	Norm
v/cm	Calib
Volts/cm	.005
Input sel.	GND
Mode	CH 1

1. .005 v/cm Bal (front panel) — No shift as var v/cm rotated (both channels)

PRESETS	
Var v/cm	Calib
Position	Center trace

2. .05 v/cm DC Bal — Center trace with ".05 v/cm DC Bal" when volts/cm is switched to .05 v/cm (both channels)

PRESET	
Volts/cm	.05 v/cm
Input Sel.	DC

3. .05 v/cm gain (front panel) — Adjust for 4cm deflection with 200mv from calibrator. (both channels)

4. Check Var v/cm controls — At least 2.5:1 range. Watch for noise. (both channels)

PRESET	
Volts/cm	.005 v/cm

5. .005 v/cm gain (onPC boards) — Adjust for 4cm deflection with 20mv from calibrator. (both channels)

6. Check all v/cm switch ranges — ±3% (both channels)

7. Check Microphonics — .005 v/cm-1cm max. (both channels)

8. Grid Current Zero — ADJUST FOR No shift from DC to GND (both channels)

PRESET	
Volts/cm	.05 v/cm

9. Inv. Bal — Adjust for no trace shift when switching from norm to invert. (.005 v/cm Bal must be correct) (both channels)

141 CALIBRATION OUTLINE

PRESETS	
Norm-Invert	Norm
V/cm	Calib
Volts/cm	.005
Input Sel.	GND
Mode	CH 1

1. .005 v/cm Bal (front panel) — No shift as var v/cm rotated (both channels)

PRESETS	
Var v/cm	Calib
Position	Center trace

2. .05 v/cm DC Bal — Center trace with .05 v/cm DC bal. When volts/cm is switched to .05 v/cm (both channels)

PRESET	
Volts/cm	.05 v/cm
Input Sel.	DC

3. .05 V/cm gain (front panel) — Adjust for 4cm deflection with 200mv from calibrator. (both channels)

4. Check Vs. v/cm controls — At least 2.5:1 range. Watch for noise. (both channels)

PRESET	
Volts/cm	.005 v/cm

5. .005 v/cm gain (onto boards) — Adjust for 4cm deflection with 20mv from calibrator. (both channels)

6. Check all v/cm switch ranges — 1V. (both channels)

7. Check Microphonics — .005 v/cm-1cm max. (both channels)

8. Grid current zero — No shift from DC to GND (both channels)

PRESET	
Volts/cm	.05 v/cm

9. Inv. Bal — Adjust for no trace shift when switching from norm to invert. (.005 v/cm bal must be correct) (both channels)

10. Check chopped mode — 1mc ± 15% frequency. Check chopped blanking. Trace thickness 2mm or less.

11. Check alternate mode — Must alternate at all sweep speeds.

PRESET	
Norm-invert	Norm

12. Check added mode — 4cm deflection with -1v on both channels. With one"norm/invert" switch in invert and .5v applied to both channels, observe less than 0.5 cm deflection.

PRESETS	
CH 1 Volts/cm	.005 v/cm
Mode	CH 2
Calibrator	10mv
CH 2 input sel	AC

13. Check CH 1 signal out — Apply Cal to CH 1 & CH 1 sig out to CH 2 input. Check for approx 2cm deflection.

PRESET	
CH 2 Volts/cm	.5 v/cm

14. Check CH 1 Trigger out — Patch CH 1 trigger out to CH 2 and check for approx 2cm deflection.

15. Input "C" & atten comp — Use 15 pf BNC standardizer & 2.5 kHz form 106.

16. H.F. Compensation at .05 v/cm (both channels)

17. H.F. Comp at .005 v/cm (both channels)

18. Bandpass — .05 v/cm--50mc
.005 v/cm--28mc
Both channels

10. Check chopped mode

11. Check alternate mode

PRESET
Norm-Invert Norm

12. Check added mode

PRESETS
CH 1 Volts/cm .005 v/cm
Mode CH 2
Calibrator 1kmv
CH 2 Input sel AC

13. Check CH 1 signal out

PRESET
CH 2 Volts/cm .5 v/cm

14. Check CH 1 Trigger out

15. Input "C" 1 atten comp

16. H.F. Compensation at .05 v/cm (both channels)

17. H.F. Comp at .005 v/cm (both channels)

18. Bandpass

Line 1 15% frequency. Check chopped blanking. Trace thickness 2mm or less.

Must alternate at all sweep speeds.

Vert deflection with -1v on both channels. With one "norm invert" switch in invert and .3v applied to both channels, observe less than 0.5 cm deflection.

Apply 0at to CH 1 & CH 1 sig out to CH 2 input. Check for approx 2cm deflection.

Patch CH 1 trigger out to CH 2 and check for approx 2cm deflection.

Use 15 pf BNC standard fixer & 2.5 kHz form 109.

.05 v/cm--5mc
.005 v/cm--25mc
both channels