

1A1 CALIBRATION OUTLINEPRESETS

Var  
 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)

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LAJ CALIBRATION OUTLINE

INSTRUMENTS	
Normal	Normal
Calib	Calib
.005	.005
DC	DC
CH 1	CH 1

No shift as var v/cm related (both channels)

1. .005 v/cm Bal (front panel)

INSTRUMENTS	
Var v/cm	Var v/cm
Calib	Calib
Center trace	Center trace

Center trace with .05 v/cm DC Bal  
when voltage is switched to .05 v/cm  
(both channels)

2. .05 v/cm DC Bal

INSTRUMENTS	
Var v/cm	Var v/cm
DC	DC

Adjust for 4cm deflection with 200mv  
from calibrator. (both channels)

3. .05 v/cm Bal (front panel)

Adjust for 2.5:1 range. Watch for noise.  
(both channels)

4. Check var v/cm controls

INSTRUMENTS	
Var v/cm	Var v/cm

Adjust for 4cm deflection with 20mv  
from calibrator. (both channels)

5. .05 v/cm Bal (both panels)

100 (both channels)

6. Check all v/cm switch ranges

.005 v/cm Bal (both channels)

7. Check Microphones

No shift as var v/cm DC to GND (both channels)

8. Grid Current Zero

INSTRUMENTS	
Var v/cm	Var v/cm

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

9. Inv. Bal

10. Check chopped mode

1mc  $\pm$  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

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both channels  
1.003 v/cm--25mc  
0.5 v/cm--50mc

IX. H.F. Comp at 1.003 v/cm (both channels)

IX. H.F. Compensation at 1.02 v/cm (both channels)

IX. Input PC 3.5ccn comp

IX. Check CH 1 trigger out

CH 2 Volts/cm 1.0 v/cm

PRESET

IX. Check CH 1 signal out

CH 2 Input and AC

Calibrator

Mode

CH 1 Volts/cm

1.003 v/cm

PRESET

IX. Check added mode

Note-Invert

PRESET

IX. Check alternate mode

IX. Check chopped mode

beam deflection with -1v on both channels. With normal invert switch in invert and -1v applied to both channels, observe less than 0.5 cm deflection.

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

Check CH 1 trigger out to CH 2 and check for approx 1cm deflection. Use 10 of BNC standardizer & 2.2 k $\Omega$  form 100.

Must alternate at all sweep speeds. Blanking. Trace thickness 2mm or less. Time 1 $\mu$ s frequency. Check chopped