

547 CALIBRATION PROCEDURE

1. Check power supplies

Adjust -150, R616

POWER SUPPLY	TOLERANCE	RIPPLE
-150	-148.5 to 151.5	10mv
+100	97 to 103	15mv
+225	218 to 232	10mv
+350	339 to 361	25mv

2. Adjust high voltage -R840

-1850v at test point 2% regulation

3. Adjust calibrator -R943

+100v at cal out jack. Duty cycle
+45 to +55 at cal out jack when set
to 100v. Check other ranges for am-
plitude.

4. Trace rotation

Center or astig. pot on front panel

5. Geometry -R861

6. Vert DC Bal -R1004

Center trace with test load in common
mode

7. Vert Gain -R1017

4cm with 100v in to ~~TEST LOAD~~ gain set
position

8. Check for operation:

HORIZ DISPLAY	TEST LOAD	CHECK
A	Alt	Two traces-A time/cm
B	Alt	Two traces-B time/cm
A alt B	Alt	Two traces-one A, one B, trace separation controls A
A	Chopped	Chopped Blanking
B	Chopped	Chopped Blanking
A alt B	Chopped	Two waveforms-trace separation controls A
B inten by A	Alt	Two traces with intens zones
A Dly'd	Alt	Two traces
B intens by A		
A ^{ALT} Dly'd	Alt	Four traces-two with intens zones, Trace separation con- trols other two.

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ANSWER TO THE QUESTION

WHAT IS BEING STUDIED?

It is the study of the properties of matter and the changes which occur in matter.

WHAT IS NOT STUDIED IN CHEMISTRY?

It is the study of living things, plants and animals.

WHAT IS STUDIED IN PHYSICS?

It is the study of matter and energy.

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9. Vert H.F. response (3-4cm of display)
L1157, C1029, C1076, C1105, C1106, C1126, R1076, R1106 -- Adjust for optimum response
10. Check Risetime 7n sec or less
11. "A" Trigger Ground junction of R217 (3.3m) and R219 (1m) at rear of trig level control.
Adjust R225 (trigger level centering) and R245 (trigger sens) so scope barely triggers on 50mv of cal waveform externally.
Adjust R209 (A int trig DC level) so sweep fires at center line in internal DC.
12. "B" trigger Same as "A"
13. Check A and B single sweep
14. Adjust Swp/mag regis -R569 Use B time base
15. Adjust X10 cal -R544
16. Adjust X1 cal -R566 Check mag neon and other mag ranges.
17. Adjust B swp length -R125 Located on "B" gate 10.5 cm
18. Check B variable and neon 2.5 ± 1 ratio min.
19. Check A variable and neon 2.5 ± 1 ratio min.
20. Adjust delay start (R418) and delay stop (R415) use 1msec and 100usec markers, B intens by A-Alt-A Dly'd.
21. Check delay jitter
22. Adjust C186-"B" unblanking comp. Use A alt B, 50 μ sec/cm. Adjust C186 so leading edge of B is same intensity as A. LOCATED ON UPPER DECK IN SWEEP SWITCHING AREA.
23. Adjust C90 C Use 10usec "B" swp speed .1usec "A" swp speed, B intens by A-alt-A dly'd 10usec marks.
24. Adjust C90 B Use 1usec "B" swp speed, .1usec "A" swp speed, B intens-alt-a dly'd, 1 μ sec marks.

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1. *Streptomyces* *luteus* *var.* *luteus* *subsp.* *luteus*
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25. Adjust C90 A and C99 (located on "B" gate) USE B SWEEP ONLY

Use .5 μ sec marks at .5 μ sec/cm and adjust C90 A for timing.
.1 μ sec marks adjust C99 .1 μ sec/cm for timing-repeat-interaction.

26. Check all "B" speeds for proper timing-1%
Use delay time multiplier

27. Adjust C572 and C582

Use 50mc sine wave--.1 usec X10-B time base
Adjust for max center sweep expansion.

28. Adjust C591 for best center-sweep linearity

29. Adjust C576 and C586 for center sweep timing

30. Adjust C557 H (X10 mag compensation) for
best start sweep timing.

31. Adjust C557 F (X5 mag) and C557 D (X2 mag) for best timing.

32. Adjust A swp DC level -R470

Use 100 usec and 1 msec time marker, A Alt B, 1 msec/cm, 10x mag, trigger
both time bases, superimpose start of traces horizontally with A swp DC
level -R470

33. Adjust R290 Y (A swp Cal) so A and B coincide fully.

34. Adjust A swp length -R325- for 10.5 cm
(same as B)

35.	ADJUST	SWP SPEED	184		CHECK
			GEN	CYCLES	
	C290 C	10 μ sec	10 μ sec	1 mark/div	
	C290 B	1 μ sec	1 μ sec	1 mark/div	
	C290 A	.5 μ sec	.5 μ sec	21 cycles/cm	1 mark/div
	C299	.1 μ sec	.1 μ sec	1 cycle/cm	mark/div

36. Check timing A swp all ranges $\pm 2\%$ DO NOT USE AUTO mode
below 50ms/cm dummy

37. Adjust ext horiz DC Bal -R519

38. Check ext horiz grid current

39. Adjust C524 Use X1
Adjust for optimum response

40. Adjust C503 C (on horiz display switch)
Use X10 ext horiz and adjust for optimum response

41. Check ext horiz for:
a) X10 atten accuracy $\pm 3\%$
b) V₁₀₋₁ for operation AND NOISE

1. 12. 1962. 100% of the seedlings were healthy and growing well. The plants were 10-12 cm tall.

Effect of different treatments on the growth of seedlings of *Leucospermum cordifolium*

The following table gives the mean height of the seedlings at 12 weeks after sowing.

It can be seen that the plants in the control group were taller than those in the other groups.

There was no significant difference between the heights of the plants in the groups receiving 100 mg manganous sulphate and 100 mg zinc sulphate.

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42. Check

- a) Position neons
 - b) Front panel wave forms
 - c) Vert sig out -.4v/cm
- { +gate B 20v sq. wave
 +gate A 20v sq. wave
 Dly'd trig-10v spikes, sweep A-100v sawtooth

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