

CALIBRATION OUTLINE

1. Check Power Supplies--may or may not be adjustable

Supply	Ripple	Tolerance	
		Adjustable	Fixed
-100	4mv	99 to 101	
+125	20mv	123.75 to 126.25	121.25 to 128.75
+300	70mv	297 to 303	291 to 309
- 12.2	5mv	-12.078 to -12.322	11.83 to 12.57
+ 20	4mv	19.80 to 20.20	19.4 to 20.6

2. Adjust H.V. (R841)
-3300 volts (-3268 to -3432)

3. CRT Deflection Plate Capacitance

4. Adjust CRT Beam Rotator -- R860

5. Adjust/Check Calibrator

Old Style:

- a. Ground Pin 8 V884
- b. Adjust for +100v at Pin 7 V884
- c. Check all jacks for proper output

New Style:

- a. Check 20kHz frequency accuracy by observing 184 100usec mark drift. Use dual trace. Trigger on 20kHz square wave. Max drift = 1 cm/sec (*.1%) *SWEEP SPEED = 2.01ms*
- b. Remove Q935 (front left) and adjust Cal Amp (R943) for +5 volts DC at the 5 v/500mv jack. Check both outputs terminated and unterminated *± .005V Replace Q 935 + check for 0 to .001V + name is Q925*
- c. Check ~~and~~ pretrigger + 0.6v minimum (20kHz) Must occur 12.5usec ± 5usec before rise of squarewave.

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Tolerance		Range	Setting
Fixed	Adjustable	Range	Setting
121.25 to 128.75	125.75 to 130.25	40V	40V
201 to 209	207 to 203	200V	200V
11.25 to 12.75	11.75 to 12.25	70V	70V
19.25 to 20.75	19.75 to 20.25	20V	20V

2. Adjust P.W. (20A1)
-3000 volts (-3000 to -3000)

3. CRT deflection plate capacitance

4. Adjust CRT base resistor -- fixed

5. Adjust Clock Calibrator

Cal. steps:

- 1. Ground for 100V
- 2. Adjust for +100V or 100V VISA
- 3. Check all dials for proper output

New steps:

- 1. Check both frequency accuracy by observing 1st 10 lines
- 2. Mark drift, use dual trace. Trigger on 10th square wave.
- 3. Max drift = 1 cycle (1.0%)
- 4. Remove 100V (front left) and adjust 201 for 40 volts
- 5. IC at the 200V jack. Check with output terminated and
- 6. Check 200V resistor + 0.5V minimum (200V) and occur 12.5000
- 7. Check before rise of sawtooth.

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