

Z Calibration Outline

1. Check for cathode interface, intermittents, etc.
2. Output Cathode Follower Balance (R7658)-
 a. Short pins 1 & 3 of interconnecting plug to determine electrical center. Remove short.
 b. Connect VOM between junction of R7653 & R7652 & junction of R7653 & R8652 & adj. the Position control for 0v. Disconnect VOM.
 c. Connect jumper between collectors of Q7644 & Q8644. Adj Output CF Bal to bring trace to electrical center (2a).
3. Output Amplifier Balance- Connect jumper between bases of Q7644 & Q8644. Check for no more than 1cm from electrical center.
4. Differential Amplifier Tube Balance Short pins 1 of V7634 & V8634. Max shift 3cm.
5. Var Atten. Bal No trace shift as Var v/cm rotated.
6. Amplifier DC Bal Set Position control to mid-range & center trace with Amp DC Bal.
7. Gain Adj (R8639) .05 v/cm & .2v signal.
8. Check Attenuators +3% Check both A & B inputs.
9. Check AC-DC Switch & Input Caps for leakage.
10. Grid Current 2mm maximum.
11. Diff Bal Use 100v Cal Signal & .05 v/cm. Maximum tilt or zigzag 1mm. Recheck step 5.
12. Comparator Balance Check Mode switch to Test. Move Comparison Voltage Polarity switch from + to - & observe no more than 1cm shift.
13. Input Capacitance Standardization Use 1kc. & 24uuf standardizer.
14. Output Voltage Divider Compensation Use 10kc. Adj C7655 & C8655 For best flat top on A & best flat bottom on B. Steps 13 & 14 interact.
15. Attenuator Compensations Use 1kc & 3.5 cm of signal.
16. High Frequency Compensations Use 1mc, adj L's 7645, 8645, 7632, & 8632.
17. Bandpass 13mc.

Z Unit Precision Voltage AdjustmentsPresets

Comparison Voltage Polarity +
Comparison Voltage Range 100 Volts

1. Cal. 1 (R8674) -107.70v at Test Point A
2. Cal. 2 (R7671) +107.70v at Test Point A with polarity switch in the - position.
3. Cal. 3 (R7681) Polarity switch to + & the voltage at Test Point B The same as Cal. 1 & 2.
4. Cal. 4 (R7684) +100.00 volts at Test Point C.
5. Cal. 5 (R7689) Comparison Voltage Range to 10v
+10.000 volts at Test Point C.
6. Check 1 Volt Range Comparison Voltage Range to 1v.
Test Point C within 5mv of 1v.

NOTE: Cal. 1 & 2 can vary from 107.3 to 108.1 volts as long as they are the same or very close to each other.

INTERVIEW WITH GENEVIEVE DAVIS

at her home

in New York City

a solid and reliable

young woman

with no past record of mental illness

The examinations were conducted by Dr. J. L. M. Smith, a well-known physician

of Valley City, who made

no record of any physical or mental

abnormalities.