

0 Calibration OutlinePresets

* Grid Sel	(-)
Integrator LF Reject	Off
Z _i & Z _f	1 Meg
v/cm	.05

Display Amplifier

1. DC Bal (Front Panel)
2. Vert. Posit. Range (R6557)
3. Grid Current 1mm max at .05v/cm.
4. Gain (Front Panel) Set at .05v/cm.
5. Attenuators #3%
6. Input Caps & AC-DC Switch
7. Input C & Neutralization 47pf, 3-4cm of 1kc signal.

Input	Adj.	Var.	V/CM
+DC	C6521*	Cal.	.05
-DC	C6541**	Cal.	.05
+DC	C6574*	ccw.	.05
-DC	C6564**	ccw	.05

* Interacts, repeat.

** Interacts, repeat.

8. Attenuator Compensations Var. V/CM calibrated.

V/CM	Flat Top	Sq. Corner
.1	C6508B	C6508C
.2	C6509B	C6509C
.5	C6510B	C6510C
5	C6513B	C6513C

9. HF Compensations +DC L6524, L6564
-DC L6544, L6574
10. Bandpass 25mc.

Operational Amplifiers (There are two of these)Presets

+A (For Amplifier A)	
+B (For Amplifier B)	
V/CM	.5
Output DC Level (Front Panel)	Midrange

0 Calibration Outline (cont.)

1. Output DC Level (R5532-A)
(R5582-B)

Push Output DC Level to Adj. & adj. R5532 (R5582-B) to bring trace back near where it is when zero check button is pushed.

- 2.

Presets

Time/CM	1sec.
Z _i & Z _f	Ext.
*Grid Sel	(+)

2. *Grid Current (R5535-A)
(R5585-B)

Max vert. movement is 2.5cm in 5cm of horiz travel.

RECHECK- Output DC Level (Grid Sel to -)

Presets

V/CM	1
*Grid Sel	(-)
Z _i & Z _f	Ext.
1mv Cal signal to -Grid jack	

3. Open Loop Gain (R5548-A)
(R5598-B)

Output DC Level can be used to get display on screen. Check display can be increased to more than 4cm. Set to 2.5cm. (If 4cm cannot be obtained try ~~V5543~~ for A & ~~V5593~~ for B) input tubes

Presets

V/CM	20
Z _i & Z _f	1 Meg
50v Cal signal to INPUT connector	

4. Check Output Voltage & Current

Check for 2.5cm display. Place 10kohms from output to ground & check that the display doesn't change. If display decreases try V5543 for A & V5593 for B. To check the + output voltage use the 106 hi amp. & 2.5cm of sig. Same setup.

Presets

V/CM	1
Integrator LF Reject	1cps
Z _i & Z _f	.1 Meg
Apply 4 cm of 450cps to A input thru 50 ohms	

0 Calibration Outline (cont.)

5. Z_i & Z_f Components

Using the following table check for 4cm of deflection.

Z_i	Z_f	V/CM
.01 Meg	.01 Meg	1
.1 "	.1 "	1
.2 "	.2 "	1
.5 "	.5 "	1
1 "	1 "	1
1 "	.5 "	.5
1 "	.2 "	.2
1 "	.1 "	.1
.2 "	.01 "	.05
.01 "	.1 "	10
.1 "	1 "	10
.2 "	1 "	5
.5 "	1 "	2
1 uf	1 uf	1
.1 "	.1 "	1
.01 "	.01 "	1
.001 "	.001 "	1
.01 "	.001 "	10
.1 "	.01 "	10
1 "	.1 "	10
.001 "	.01 "	.1
.01 "	.1 "	.1
.1 "	1 "	.1

Presets

V/CM 1
 #Grid Sel (-)
 Integrator LF Reject 1cps.
 Z_i .01 uf
 Z_f .001 uf
 Apply 4cm of 10kc signal from the
 106 hi amp. to the op.amp. thru 50 ohms.

6. Var. Z_i & Z_f .0001 uf & 10 pf Caps

Adj the indicated caps (those in parenthesis are for B) or the 106 to maintain 4cm of sig.

Z_i	Z_f	Adj.
.001 uf	.0001 uf	C5512F (C5562F)
.001 "*"	.01 "	106
.0001 "	.001 "	C5512B (C5562B)
10pf	.0001 "	C5512C (C5562C)
.01 uf**	.001 "	106
.0001 "	10pf	C5512G (C5562G)

←* Remove 50 ohm termination

←** Reinstall 50 ohm termination

7. (Optional) Gain-Bandwidth Product

See Manual.

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