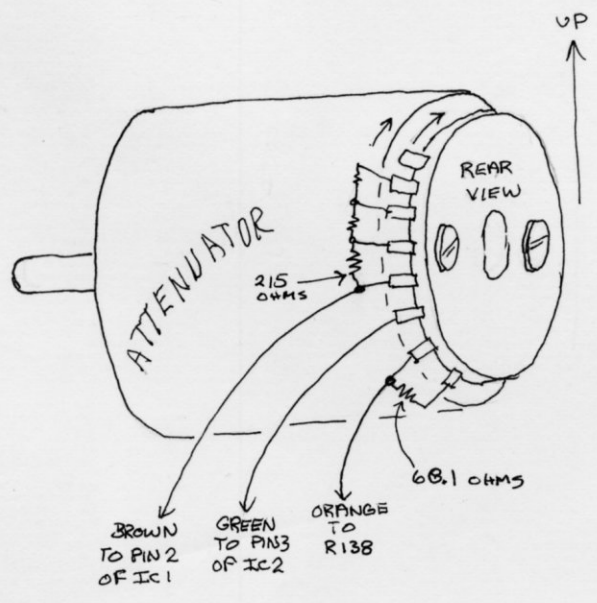
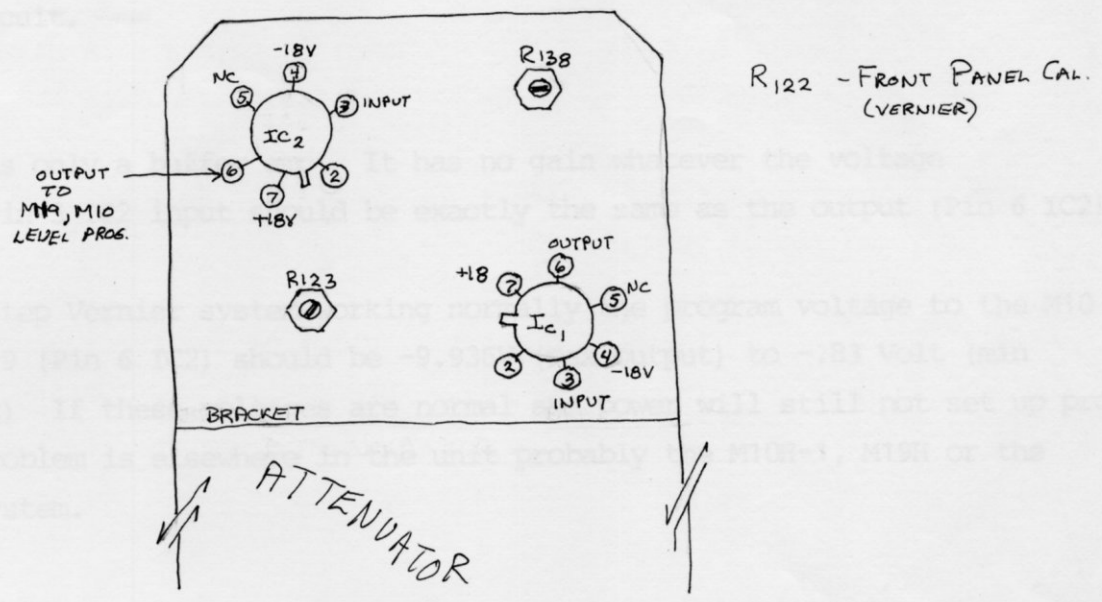


AP
4-29

STEP VERNIER

2001A

2493 from Pin 6 Ic1 (Pin 3 Ic2 @ 0dB Atten) to ground. Power OFF ± 1 scale division on a Simpson



HP
4-79

2001A Power SETTING

- Set R122 Full Clockwise (+9 position)
- Set R123 to -7.64 Volts at wiper
- Check output (Pin 6) of IC1 it should be x - 9.93 Volts
Turn R122 to cal (full ccw) volt as should be x -3.25 Volts
If everything is okay, so far the problem is not in the IC1 section of circuit.
- IC 2 is only a buffer amp. It has no gain whatever the voltage is @ Pin 3 IC2 input should be exactly the same as the output (Pin 6 IC2)
- With Step Vernier system working normally the program voltage to the M10 and M19 (Pin 6 IC2) should be -9.936V (max output) to -.83 Volt (min output) If these voltages are normal and power will still not set up properly the problem is elsewhere in the unit probably the M10H-1, M19H or the ALC system.

2001A

STEP VERNIER SET AT 0dB

STEP VERNIER SETTING	+9 (R122)	cal (R122)	Output V @ Pin 6 IC2 R122
0	-7.936	-3.255	6 IC2 R122
-1	-8.827	-2.89	max
-2	-7.84	-2.57	
-3	-5.83	-2.27	

2001 A

(V. taken at wiper)

R123 Range -3.9V to -13.4 Volts (Depending on Setting of R122)

Range with R122 set to +9 (max) -4.65V to -13.4 Volts

R122 set to cal (min) -3.9V to -9.86Volts

Normal Setting -7.64V (w R122 to max pos.) (+9)
-5.88V (w R122 to cal pos.)

R122Range w R123 set to 7.64V (w R123 in +9 pos.)

+9 -17.99V
cal -5.89V ----- Normal Range

R138 Normal Range with R123 set to -7.64V and
R122 set to -17.99V (+9 pos.) (full clockwise)

(R122 cal. Normal Setting -.371 Volt (taken @ vct of R138, R139)

(R122 cal.) Normal Range - .431 to -.266 Volts

(R122 +9 Max) Normal Range -.81 V to 1.312Volt

(R122 +9 max) Normal Setting -.1.13 Volt

2001A

NORMAL VOLTAGES FOR STEP VERNIER (TAKEN @ PIN 3 IC2)

W V @ JCT R139. 139. set @ -1.13 Volt.

<u>STEP VERNIER SETTING</u>	<u>+9 (R122)</u>	<u>cal (R122)</u>	Output V @ Pin 6 IC 2 R122 (+9 max)
0	-9.936	-3.255	
-1	-8.823	-2.89	
-2	-7.84	-2.57	
-3	-6.93	-2.27	
-4	-6.13	-2.01	
-5	-5.42	-1.78	Same as
-6	-4.79	-1.57	Voltage on
-7	-4.22	-1.38	Pin 3 IC2
-8	-3.73	-1.22	
-9	-3.28	-1.08	
-10	-2.87	-.942	
-11	-2.52	-.83	