

MODEL GC-1 INSTALLATION AND OPERATING INSTRUCTIONS

INSTALLATION

No internal receiver connections are required. The GC-1 may be connected between the secondary of the receiver's output transformer and the speaker voice coil. This is illustrated as Method 1 on the circuit diagram.

If a Sideband Slicer is used, the GC-1 can be connected between the Slicer VOLUME CONTROL jack and the speaker voice coil, shown as Method 2.

When the GC-1 is used in conjunction with Multiphase Exciters, it is not necessary to use a load resistor across terminals 1 and 2 of the Exciter, due to the large amount of inverse feedback which prevents damage to the output transformer.

OPERATION

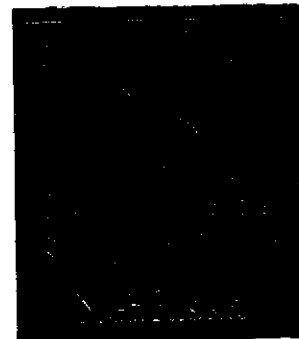
The sensitivity control should be adjusted until the weakest signal begins to deflect the Compression Indicator. Stronger signals will apply additional negative bias to the 7B8 automatic gain control tube, reducing the gain of the amplifier.

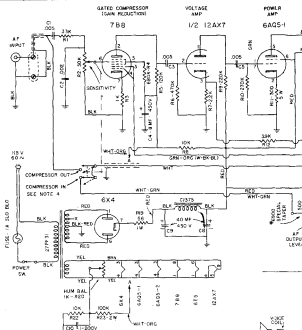
A separate Output Control adjusts the power output to your comfortable listening level. After these adjustments have been made, the circuit will automatically maintain the desired output level.

When making sideband suppression tests, the AF OUTPUT control should be set to maximum, and the SENSITIVITY retarded so that the eye will not operate while listening to the desired sideband. The receiver should be in the manual RF gain position, with the RF gain as close to minimum as possible and the AF gain maximum.

A switch has been combined with the sensitivity control. In the extreme counter clockwise position the switch will connect the input to the output, to effectively remove the GC-1 from the circuit.

From the point where the eye just begins to operate, to where it just closes, indicates approximately 13 db. of compression.



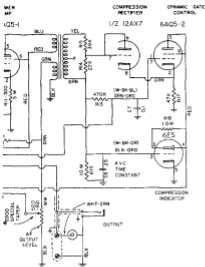


VOLTAGE CHART

	1	2	3	4	5	6	7	8	9
7B8	0.15 AC1	220	-0.8	-0.8	0	0	0.6	315 AC1	
	0	12-HZ	-15 DC	-15 DC		0.7-10C			
12AX7	0	0	0.9	315 AC1	315 AC1	-0.8	-0.8	2.8	315 AC1
	0.75-10C					35-10K	35-10C	17.5 DC	
6AQ5-1	0	28	315 AC1	315 AC1	280	280	280	-0.8 DC	
	0	47 DC						-15 DC	
6AQ5-1	0	72			250 DC	280	0	17.5-10C	
	0.75-10C								
6E5	0.15 AC1	75	-0.8	280	0	315 AC1			
	0	17.5 DC	-0.8 DC						
6X4	0	0	315 AC1	315 AC1	0	28.0 AC	280		

ALL VOLTAGES MEASURED WITH VTVM. ALL 1000 CYCLE VOLTAGES ARE PEAK, MULTIPLY BY .707 FOR RMS.
 Δ - VOLTAGES WITH NO SIGNAL INPUT.
 0 - AUDIO VOLTAGES WITH 1 VOLT AT 1000 CYCLES INPUT IN 5.2 Ω LOAD ON OUTPUT. SENSITIVITY AT MAXIMUM.
 † - DEPENDS ON POSITION OF HUM BALANCE POT R20
 † QC - APPROX 24 V





TUBE LOCATION CHART

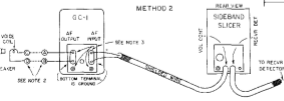
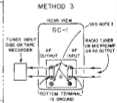
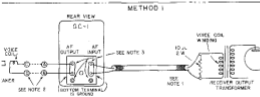
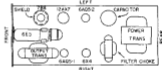


FIG 1

PATENT NO. 2,888,777

REV. 2-25-57 REV. 1-7-58

SCHEMATIC
 GATED COMPRESSION AMPLIFIER
 MODEL GC-1

CHKD BY: R-9-58
 DRG. NO. 7 (20)
 CENTRAL ELECTRONICS, INC.
 1247 BELMONT AVE.
 CHICAGO, ILL.

K4XL's **BAMA**

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