



## NOW – NO MORE BLASTING!

It is no longer necessary to "ride" the gain control in SSB-AM-CW round tables in an effort to copy the "barefoot" rigs along with the KW rock crushers!

The GC-1 is a complete audio system, utilizing our Gated Compression Audio AVC circuit.\* Thousands of Gated Compression units are in daily use by Deaf Training Schools throughout the world to prevent painful "blasting" and to provide relaxed listening pleasure.

Ordinary compression amplifiers are limited to a range of 10 to 20 db. before severe distortion occurs. With the patented Dynamic Gate control circuit in the GC-1, the increase in output is less than 3 db. for increases in input level of 40 db. above the Compression Gate value.

## 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.

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

## SPECIFICATIONS

Input impedance: 80,000 ohms at 1000 cycles.

Compression begins at 0.1 V input (at full sensitivity).

Range of compression: 40 db. with less than 3 db. increase in output.

Power Output: Adjustable up to approximately 2 watts into 3-8 ohm speaker with negligible distortion.

Audio Response: 6 db. down at 100 and 10,000 cycles.

Hum and Noise: 50 db. down from full output.

Tube complement: 1 – 7B8, 1 – 12AX7, 2 – 6AQ5, 1 – 6E5, 1 – 6X4.

External Connections: Phono jacks and screw-driver terminal strips. Additional phone jack for headphones, etc.

\* U.S. Patent No. 2-659-777

### PHYSICAL DATA

Steel Case, Gray wrinkle finish. 14-1/2" long, 6-1/4" wide and 9-1/8" high (including rubber feet).

Self contained power supply, for operation on 115 V 50-60 cycles.

Shipping weight approximately 17 lbs.

**MODEL GC-1 GATED COMPRESSION AMPLIFIER**, wired and tested with all necessary wire and connectors . . . . . \$59.50

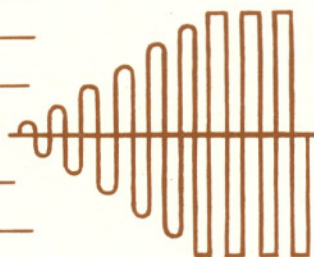
**MODEL GC-1 GATED COMPRESSION AMPLIFIER KIT** . . . . . \$49.50

Units constructed from kits do not require special test equipment.

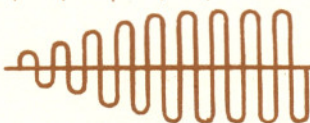
*Central Electronics, Inc.*



INPUT SIGNAL



ORDINARY RECEIVER OUTPUT



THRU GATED  
COMPRESSION AMPLIFIER

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

9-18-56

Printed in U.S.A.

*Central Electronics, Inc.*

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**GATED COMPRESSION AMPLIFIER  
MODEL GC-1**