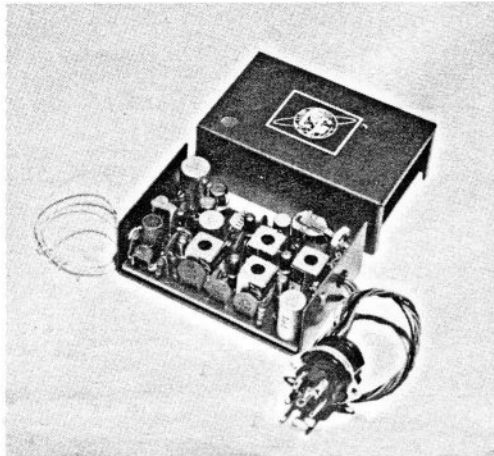


THE ULTIMATE IN RELIABILITY AND QUALITY

SUPERHETRODYNE SELECTIVE RECEIVERS



PRICE - \$59.95
Complete with Crystal

“MERCURY” SINGLE CHANNEL TONE RECEIVER

Introduction: The Mercury Receiver is a single-channel, super-heterodyne, tone receiver. It is a custom design for R/C use, resulting from the most rigorous and extensive engineering program ever undertaken for model equipment. The Mercury is an extremely sensitive receiver, yet one capable of rejecting the many spurious and unwanted signals occurring on the citizens band. This receiver has sufficient selectivity not only to operate simultaneously with equipment operating on adjacent R/C channels, but will also provide protection from voice communications which may be only 10 kc away.

Audio Response Frequencies: 300 cps minimum, 500 cps optimum
1000 cps maximum

Idle Current: 3 ma

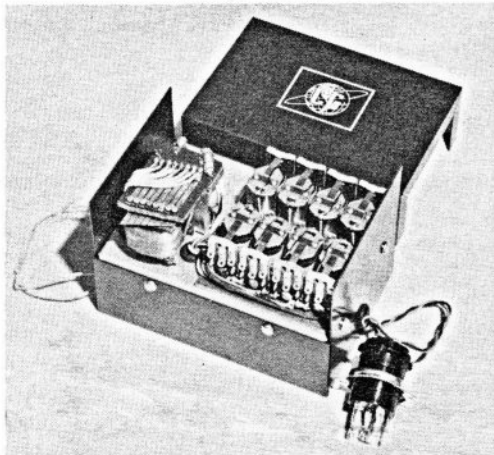
Physical Specifications:

Weight - 3-3/4 oz. - 3 inches long - 1-15/16 inches wide
1-1/32 inches high.

Transmitter Requirements: Due to the very extreme selectivity of the mercury, it is absolutely necessary that the transmitter used be "on frequency". Only the CG Venus or Hercules transmitters are guaranteed to operate the Mercury. No commitment is made concerning the operation of the Mercury with any other transmitter.

(Additional specifications on reverse side.)

“ATLAS” 8 CHANNEL SIMULTANEOUS RECEIVER



PRICE - \$139.50
Complete with Crystal

Introduction: The Atlas receiver is an eight Channel, simultaneous superheterodyne receiver. It is a receiver of advance design using only 3 volts for power with no power converter. The Atlas is an extremely sensitive receiver, yet one capable of rejecting the many spurious and unwanted signals occurring on the Citizens band. This receiver has the same selectivity as the Mercury.

Channel selection is done using a reed relay which has been proven to be very reliable. Eight subminiature power relays are used, each controlled by its independent transistor amplifier. The amplifier is actuated by the reed relay making it possible to operate the relay at maximum current and still have less than 1/2 MA flowing through the reed contact. This insures long life with no burning or pitting of the reed contacts and a minimum of cleaning required.

The Atlas is truly the most advanced and reliable receiver ever designed for RC use and we predict that it will be a standard used by others in the future.

Size: 3-1/4" long - 2-1/4" wide - 2-1/8" high. Weight - 9 oz. Audio frequencies: All tones between 200 and 475 CPS. Idle Current: 10 ma at 3v.

Transmitter Requirements: Due to the very extreme selectivity of the Atlas, it is absolutely necessary that the transmitter used be "on frequency". Only the CG Hercules transmitter is guaranteed to operate the Atlas. No commitment is made concerning the operation of the Atlas with any other transmitter.

Design Specifications: For Mercury and Atlas

Selectivity:	3 kc Nominal (6 db) 16 db at 10 kc 80 db at 50 kc
Sensitivity:	2 to 4 micro volts
Temperature Operating Range:	0° F - 130° F
Relay current change:	40 ma typical
Relay setting:	Pull in; 22 ma maximum, 18 ma optimum; Drop out; 13 ma minimum
Operating voltage:	3.1 volts maximum, 2 volts minimum
Operating frequencies:	26.995 mc, 27.045 mc, 27.095 mc, 27.145 mc, 27.195 mc. Please specify desired frequency with order. Due to severe congestion on 27.255 mc, the mercury will not be available on this frequency.
Case and Cover:	Aluminum, .030 inches, blue anodized
Printed circuit board:	Photoetched, 1 oz. bonded copper to glass epoxy. Silver immersion finish.

Compare the following features:

1. The rugged, well made and attractive case and cover.
2. The glass epoxy printed circuit board with its pure silver finish. The glass epoxy assures an unbreakable base even in sub-freezing temperatures. The silver finish assures low loss conduction and excellent solder bonds; very important at the higher frequencies encountered in the superheterodyne.
3. The new, smaller "power relay."
Silver palladium contacts, high spring tensions, and high current changes replace the sensitive and sticking relay of yesterday.
4. The guaranteed temperature operating range of 0° F to 130° F.
5. The extreme sensitivity, providing more useful range than most super-regenerative type receivers.
6. The extremely reliable local oscillator, featuring rigid stability without tuning coils and controlled by the smallest, most precision crystal used in the entire R/C industry.
7. The extremely sharp selectivity, assuring interference-free operation. To provide the best selectivity possible, the Mercury contains 4 IF transformers producing selectivity equal to commercial receivers.
8. The absolutely stable circuitry, free from oscillation producing regeneration even at high temperatures. Precision parts placement and printed circuit design aid in achieving this assured stability, in addition to rigorous circuit engineering.
9. The noise shielding of the mixer and IF stages accomplished by large "power filters" and unique printed circuit design. Everything possible has been done to eliminate actuator noise interference.
10. The economical 3 volt operation, no expensive or hard-to-get batteries are required. The Mercury is designed to be powered by two pen-cells or two CG VO series nickel-cadmium batteries. No voltage converters are used.
11. The small size and weight coupled with extreme ruggedness provide a simple, reliable installation suitable for even the smaller R/C models. The Mercury and Atlas are the smallest R/C superheterodyne receivers available.