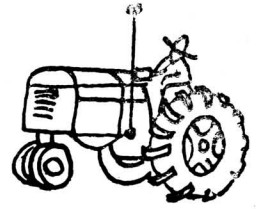


POLYTRONICS
LAB inc.



PRESENTS

THE

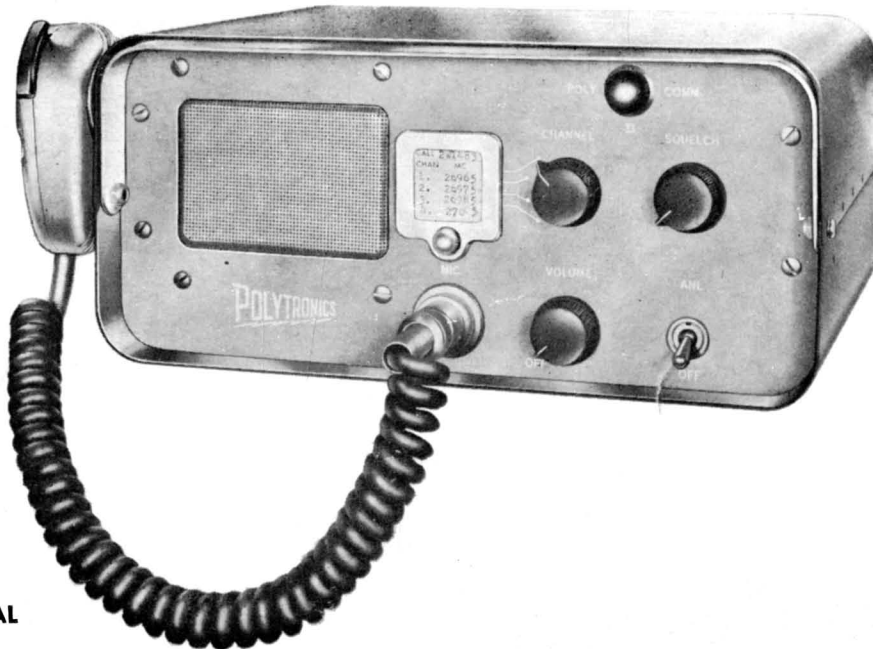
POLY - COMM II

A DELUXE 27 MC

CITIZENS BAND TRANSCEIVER

FOR CLASS D OPERATION

~~NO~~ OPERATOR'S LICENSE REQUIRED



\$179.50

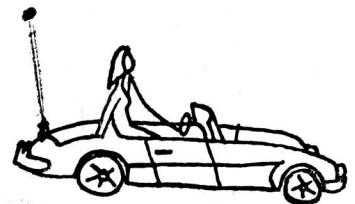
CHOICE OF TWO DUAL
VOLTAGE MODELS

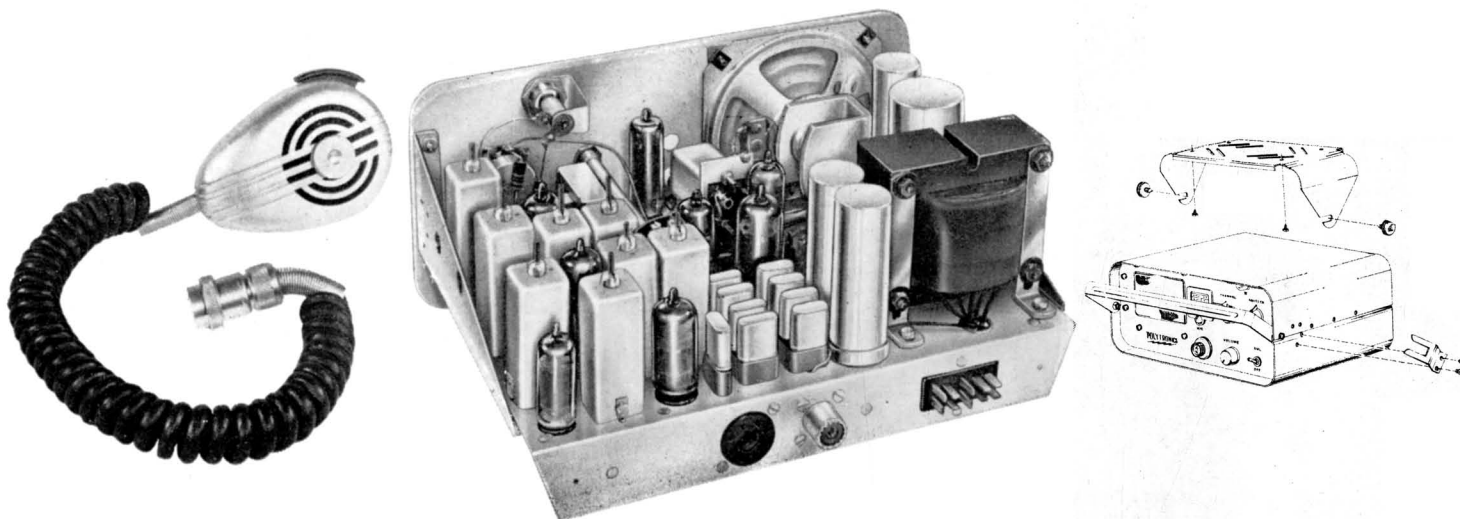
DESIGNED FOR
CONTINUOUS DUTY

TWO WAY RADIO FOR EVERYONE



Distributed by
AUDIO - VIDIO ASSOCIATES
SOUND - RADIO - TELEVISION'S
4001 IRVING STREET
SAN FRANCISCO 22, CALIFORNIA
TELEPHONE LOMbard 4-2038





The Poly-Comm II 4 channel Transceiver offers any citizen the choice of 22 newly created 27 MC Citizen Band frequencies and features a super sensitive dual conversion superhet receiver which incorporates rapid acting adjustable vacuum tube squelch circuit: delayed A.G.C., floating series gate type noise limiter, low distortion, communication tailored frequency response, and full 2 watts of audio output.

Unique electronic changeover circuitry switches from transmit-to-receive without the use of relays by the actuation of the press-to-talk button on the non-breakable metal encased carbon microphone utilizing retractable coil cord. Mic has hang-up-clip on front providing quick safe juggle free mobile operation. Separate microphone pre-amp, virtually eliminates all background or wind noise. Separate oscillator and straight-thru plate modulated final yields a minimum of 2.5 watts OUTPUT to any 52 to 72 ohm resistive antenna load. (F.C.C. max allowable input=5W) Built in carrier and modulation indicator.

The Poly-Comm can be operated in the car, boat, or home and is completely self-contained in an attractive steel, weather proofed case with recessed front panel and man-sized readily accessible carrying handle. Two tone gray with maroon knobs and bezel will blend with practically all color schemes. A built in harmonic suppression filter renders the unit compatible with nearby television sets.

The Poly-Comm II is an improved version of the original Poly-Comm, the unit which has been tried and tested all over the U.S. and has delivered the unexcelled performance that has made it the choice of the expert. Improvements incorporated result in more stable and versatile squelch, better signal to noise ratio. The power supply is now designed so that a PCII-6 (110 VAC and 6 VDC) may be easily field converted to a PCII-12 (110 VAC and 12 VDC), and vice-versa. Mechanical layout has also been improved to simplify maintenance. The Poly-Comm II is designed for maximum efficiency as is evident from the "spec sheet" on the last page. It is conservative (for instance, most Poly-Comms actually deliver 3 or more watts to the antenna and have a sensitivity of .2 of a microvolt.) The consumer will find he has invested in a rugged, well designed, top performance two-way radio, not fancy trim. Installation is quick and removal may be accomplished in seconds so that one Poly-Comm II may serve anywhere instead of tying down expensive equipment in one permanent location only.

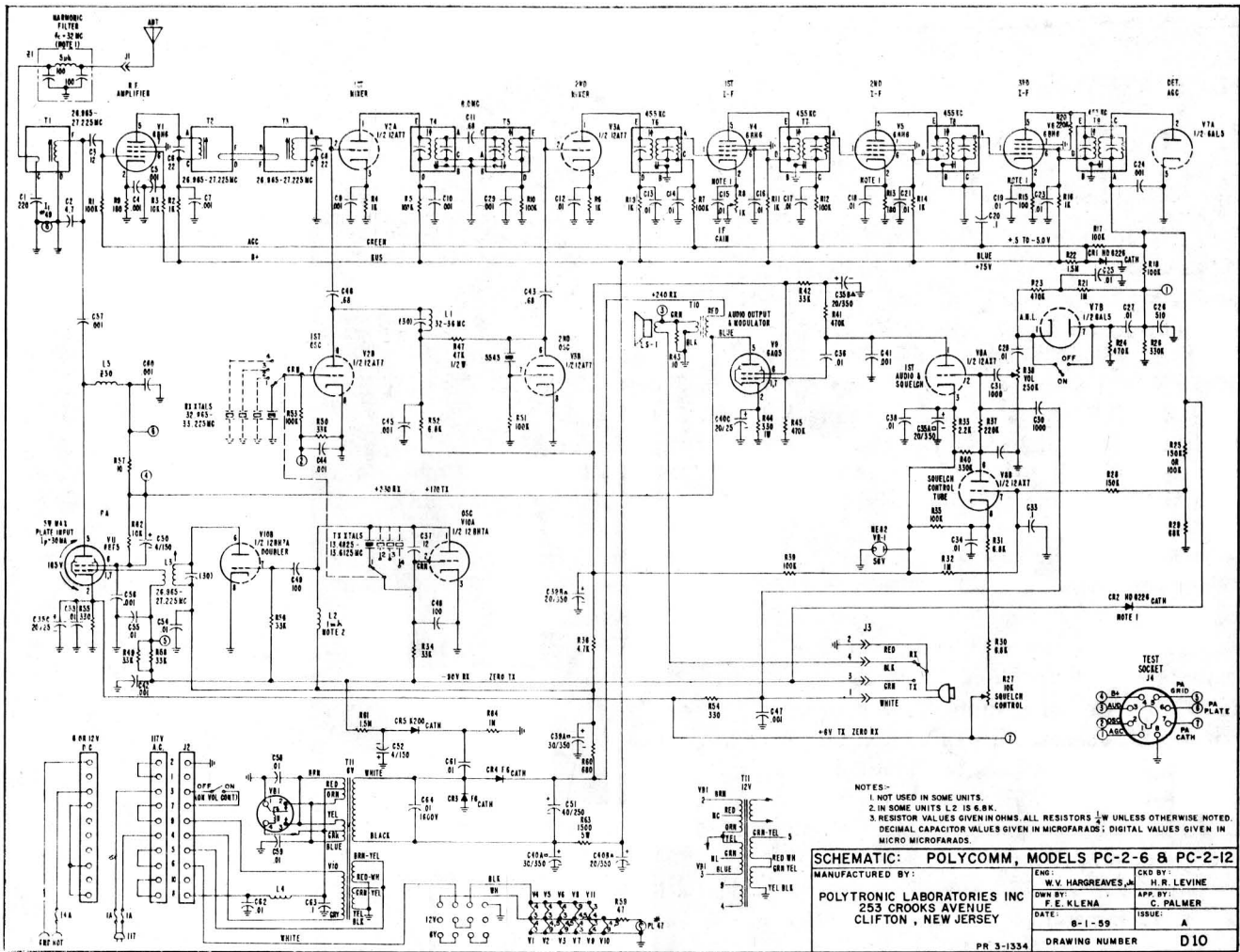
The Poly-Comm comes complete with crystals for any specified single channel, universal mounting bracket, AC line cord, DC line cord, microphone, mic bkts., complete set of instructions and F.C.C. Rules and Regulations Part 19 (possession of which is required by F.C.C. before applying for license), station application Form 505C, Identification Card 452-C and 90 day warranty.

WORKMANSHIP: Each unit carefully and skillfully constructed. Rigid inspection and testing assures reliable, trouble-free performance. Record of actual individual test data accompanies each unit.

QUALITY: Teflon insulated wiring throughout chassis. Finest quality components.

SERVICEABILITY: All components, tubes, pins terminal boards, and junctions readily accessible without removal of other parts.

POWER SUPPLY: The unique type of power supply allows immediate interchange of base and mobile stations by merely plugging in the proper power cord without any modification to the unit itself.



Channels Available: Specify (1 to 4) when ordering. Price includes one channel. Maximum 3 additional channels. Add \$6.00 for each additional channel.

CHANNEL No.	CHANNEL FREQUENCY	CHANNEL No.	CHANNEL FREQUENCY
1	26.965	12	27.105
2	26.975	13	27.115
3	26.985	14	27.125
4	27.005	15	27.135
5	27.015	16	27.155
6	27.025	17	27.165
7	27.035	18	27.175
8	27.055	19	27.185
9	27.065	20	27.205
10	27.075	21	27.215
11	27.085	22	27.225

ANTENNAS

- AB-2 Heavy duty deluxe base station ground plane. Less individual mounting hardware and cable \$ 42.21
- AB-3 Heavy duty deluxe base station coaxial sleeve. Less individual mounting hardware and cable \$ 33.25
- AM-4 Deluxe 102" mobile/marine whip, complete with swivel base mount 6" spring, 1/2 wave coaxial transmission line, coax connector, gutter hook, template and allen wrench. Bright lustre finish \$ 18.90
- AM-5 Same as AM-4 with single chain automobile bumper mount \$ 17.60
- AM-6 Same as AM-4 with double chain automobile bumper mount \$ 20.33
- AR-1 Normal mode helical whip wound inside four foot tapered white fiberglass rod. Ideal for marine or mobile use where corrosion resistance is a must. Terminated in 3/8-24 thread. Rod only. \$ 13.95

How to order:

When ordering, specify Model PC-II-6 Polycom for use from 6 volt DC and 110 volt sources or Model PC-II-12 Polycom for use from 12 volt DC and 110 volt sources. Specify channel frequency or frequencies. If not specified, standard channel of 27.035 will be supplied. Prices subject to change without notice.

SPECIFICATIONS:

Useful Operating Range:

Mobile to Mobile: Guaranteed 5 miles minimum in open flat terrain.

Base to Mobile: Guaranteed 10 miles minimum in open flat terrain when base station antenna elevation is 50 ft. or more.

Receiver: (Dual conversion superheterodyne)

Sensitivity: Better than .5 uv for 10 db S+N to N ratio at 30% at 1000 cps modulation.

Selectivity: 6 db bandwidth: 8 kc \pm 2 kc
60 db bandwidth: 20 kc \pm 5 kc

A.G.C.: Audio output varies less than 4 db from 3 uv to .2 volt.

Delayed A.G.C.: Knee of A.G.C. occurs between 3 and 5 uv.

Squelch: (adjustable): At threshold receiver will awaken for carriers of .1 uv or greater. At stop receiver will awaken for carriers of 7.5 uv or greater (stop limit adjustable from 5 to 10 uv.)

Noise Limiter: Floating series gate type operates on all noise peaks. Audio unaffected by modulation levels less than 85%.

Audio Output: At least 3.0 watts into 4" pm weather proof speaker.

Distortion: Less than 15% from 250 to 3000 cps. at 1 watt output.

Hum and Noise: Better than 40 db down from 1 watt output.

Frequency Response: Within \pm 6 db from 250 to 3000 cps. (reference 0 db at 1000 cps. at 30% at 100 uv).

Direct Image: Better than 70 db down.

Indirect Image: Better than 85 db down.

Spurious Responses: All better than 70 db down.

Adjacent Channel Rejection: At least 60 db down.

Alternate Channel Rejection: At least 85 db down.

Cross Mod. and Desensitization: Better than 60 db down on adjacent channels.

IF Frequencies: 6.0 mc and 455 kc.

Compliance: Meets FCC Rules Part 15 re: Incidental Radiation Device.

Tube Complement:

6BJ6	rf amplifier	6BH6	3rd if amplifier
12AT7	1st osc/mixer	6AL5	det anl/agc
12AT7	2nd osc/mixer	12AX7	1st audio/squelch
6BJ6	1st if amplifier	6AQ5	audio output
6BH6	2nd if amplifier		

Transmitter: (separate oscillator and straight through final amplifier)

Plate Power Input to Final: 5 watts maximum (165 volts at 30 ma).

Power Output to Antenna: At least 2.5 watts.

Modulation Capability: 85 to 100% at average speaking level via plate modulation.

Hum and Noise on Carrier: At least 40 db down from 30% modulation level.

Harmonic Suppression: All harmonics and spurious emissions better than 60 db down. Exceeds latest FCC requirements.

Tube Complement:

6EM5 power amplifier	$\frac{1}{2}$ 12AX7 microphone amplifier
12BH7A oscillator tripler	6AQ5 modulator

Microphone: Frequency response 200-4000 cps. at -42 dbm., nickel plate brass with hang-up clip on front, press-to-talk switch, connector and retractable coil cord.

Channels: Choice of any 4 within citizen band.

Antenna Matching: (Adjustable) Will match resistive antenna loads of 52 or 72 ohms.

Crystals: \pm .005% — 30° C. to + 70° C. ambient temperature range.

Humidity: Will perform after being subjected to 90° C. at 95% relative humidity for 8 hours.

Vibration: Will withstand 10G shake from 60 to 1800 cps. for 30 minutes in three planes.

Shock: Will withstand 15G shock in 3 planes.

Switching: All electronic circuitry eliminates mechanical relays. Patent applied for.

Supply Voltage Variation: -20 to +10% of rated input voltage.

AC Power Consumption: 85 watts.

DC Currents: 6 amps on 12 volts, 12 amps on 6 v.

Size: 11 x 7 $\frac{1}{2}$ x 5 inches.

Weight: 12 $\frac{3}{4}$ lbs. total system weight.