

PACK RATS'



PACK RATS

CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

CHEESE BITS



MT. AIRY V.H.F. RADIO CLUB, INC., PHILADELPHIA, PENNSYLVANIA
(50.2, 145.2, 221.4, 432.03 & 1296.3 MHz)
AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE
MEETINGS: THIRD THURSDAY OF EACH MONTH AT 8:00 P.M.
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SOUTHAMPTON, PENNSYLVANIA

ARNS

VOLUME XV

DECEMBER, 1973

NUMBER 12

THE PREZ SEZ

The Date: December 20, 1973 The Time: 8:00 o'clock P.M. Place: Southampton Free Library

All club members are requested to attend the next general membership meeting at the above time and place. Mark your calendars now! This will be a closed (members only) meeting at which our club plans for the January 5-6, 1974 VHF Contest will be finalized. Rich, K3ACR, our Contest Chairman and his committee have done a great job of formulating these plans and preparing various contest materials for distribution.

Yes, a lot of you are old hands at contest operating! Sure, we've won the contest for 13 consecutive years! True, it hasn't always been extremely close! However, one possible way to be an also-ran is to become complacent--and let some other club, with a concerted contest effort and the benefit of a localized sporadic E opening, walk off with the title. And, did you know that a drastic change has been made in the contest message exchange format?

So come to this meeting and get all the contest information plus lots of tips from some of the top VHF contest operators in the country.

This is the last issue of Cheese Bits prior to the holiday season. Best wishes for a happy one to all.

Dick, W3FQD

* * *

OFFICIAL BULLETIN NR 451 FROM ARRL HEADQUARTERS NEWINGTON, CT. NOV. 1, 1973 TO ALL RADIO AMATEUR
BT: A notice of inquiry seeking suggestions for amateur satellite service rules was released by the Federal Communications Commission on Oct. 25. Since 1961 the Commission has authorized amateur stations aboard six Oscar satellites, each by special action with waivers as needed. FCC primarily seems concerned now about 435-438 MHz which, in the worldwide allocations tables, the amateur satellite service shares with radiopositioning, which must be protected from harmful interference. Additionally the Commission seeks comments on types of stations, requirements for stations and privileges, licensing process, classes of license necessary, technical standard telecommand and telemetry requirements, emissions, satellite station identification and logging requirements. League Lines, Dec. QST, will carry further information. Comment deadline is January 7, 1974. AR

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* * * * *

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING.

SWAP SHOP ITEMS - NO CHARGE

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DIRECTORS' MEETINGS ARE HELD ON THE SECOND WEDNESDAY OF EACH MONTH AT DESIGNATED LOCATIONS.

MONDAY NIGHT NETS: NET CONTROL


145.2 - 7:30 P.M. W2EIF
50.2 - 8:30 P.M. W3CL/W3GEW
221.4 - 9:00 P.M. K3GAS
432.03 - 9:30 P.M. K3IUU
1296.3 - 10:00 P.M. K1SFF/3

FRIDAY NIGHT NET: NET CONTROL

439.250 ATV NET - K3ZKO/WA3AXV
19:00 HRS.

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CALENDAR OF COMING EVENTS
Syllabus by Lee, K3MMX

DECEMBER

- 12 Board of Directors Meeting, QTH K3IUJ, Bert Soltoff, 961 Warfield Lane, Huntingdon Valley, Pa. Phone: 947-4483. Directors and Interested Parties Invited.
- 15 - 23 SPACE NET CONTEST: Featuring Apollo 8 and 17. This is a straight through nine (9) day contest and affords an excellent opportunity to check out your equipment, antennas and allied station equipment. Exchange time, date, numbers and ZIP codes. Send your logs to K3ACR for an individual and club point score.
- 20 CLOSED CLUB MEETING: Final planning for the January Contest. Complete strategy and information will be exchanged. Packages will be distributed. Members Only! Silent Auction and Mario's Raffle. Refreshments.
- 25 MERRY CHRISTMAS FROM ALL OF THE CHEESEBITS STAFF TO ALL OF YOU AND YOUR FAMILIES!

JANUARY

- 1 HAPPY NEW YEAR! May all your hopes, wishes, dreams and prayers be fulfilled.
- 5 - 6 January VHF SS Contest -- Mark your calendar. This is the biggie. Put aside all your other activities. This is our one big Contest for the year. Get your antenna work and rigs checked out ahead of time.
- 17 General Club Meeting. "Crying Towel Session"

ADDED NOTES: Dues are Due and Payable. \$8.00 regular members; \$4.00 retired members; \$1.00 Cheesebit Subscribers.

Frankie, W3SAO is taking orders for the Club QSL Cards with "Packy" and your own calls. Two Colors: 100 Cards - \$5.75; 200 cards - \$7.75; 300 Cards - \$9.75; 500 Cards - \$12.50. This is a group order and thus we are offered these most reasonable prices. We have a minimum number, so speak to Frankie as soon as possible (25% discount)

* * *

6 METER REPORT, BY RICH PATTISON, K3ACR

November activity appears to be about the same as usual with conditions being normal for this time of the year. Worked W3CQH in Kensington, Md. near D.C., but generally nets and local rag chews are the bulk of activity. A lot of stations talk about the low activity, however, we find that if you get on and give out with a CQ you can always get a contact.

Sunday morning SSB nets are picking up and getting better as the Winter season sets in. SSB activity is also getting a shot in the arm as W2REB has returned after a long absence from the area and has activated a Wednesday Evening Rag Chew on 50.150 MHz starting at 8:00 P.M.

A.M. activity is also picking up as preparations for the Space Net Contest December 15th through December 23rd are under way. Space Net activities have contributed greatly to activity in the Philadelphia area and the contests have good national attention. A good opportunity for all to add to a most enjoyable low key contest. So get in there and participate. Also, an excellent tune-up for the January 5-6 ARRL SS Contest.

A couple of new SSB nets that have come to our attention are the "Tidewater Net" from Virginia net control WA3SKT/4 starting at 8:00 P.M. Tuesday evening on 50.110 MHz and on Thursday evening at 9:00 P.M. from N. Carolina, WB4UJH conducts a net on 50.120 MHz. Combined with the Sunday morning nets there is quite a bit of SSB activity up and down the coast. We are planning a net column, so any other nets along this line should be brought to our attention for publication.

73 and Happy Hunting, Rich

NEW PRODUCTS OF INTEREST TO HAMS

By Lyn, W3NSI

1. Rechargeable Solid Gel Battery: Elpower Corp. has introduced a line of battery units that are much cheaper than Nicads, can be operated in any position, there is nothing to spill from the battery, which is sealed for life. Type EP 1245A is rated at 12 volts 4.5 amp hours, which means it could operate a small 2 meter FM rig with normal transmit receive duty cycles for about 3 to 4 hours. Battery can take 100 full charge-discharge cycles, and up to 1,000 partial charge-discharge cycles. Cost \$16. 2117 S. Anne St., Santa Ana, California 92704
2. FM Modulation Meter: The ECM-5 modulation meter will operate from 30-500 MHz to check deviation on an FM transmitter. Unit comes equipped with a crystal for 146.94 and four other channels can be added to cover 220 and 432 MHz. An antenna is built in, but provision is made for an external antenna to be plugged in. Meter is operated on pen cell batteries and is all solid state. Cost \$75. ECM Corp. 412 N. Weinbach Ave. Evansville, Ind. 47711
3. Low Temp Solder: Allied/Radio Shack stores are selling tape solder, 100 pre-cut strips in a packet, which can be melted with a match or lighter. Just twist the wire ends of an antenna etc. together and wrap a strip of tape solder around the connection. Could solve some problems in remote locations. Cost \$.89 Any Radio Shack store.
4. Improved Drake TR22C: The TR22-C is the same weight and size as the very popular unit sold during the past two years. The three major changes are: 12 channels (old unit had 6) IF crystal filter (improved rejection of unwanted sigs) Improved Mic (larger-front talking type). Price is the same, \$229.95.

* * *

THE LONG BUS (An Explanation)

On November 5, 1973 I was late checking into the 2 meter net. Not really, however, since I just got my gonset tuned up in time to hear W2EIF call "CQ". Nevertheless, he, and everyone else thought I was late -- since I didn't check in via 220 ahead of time, as I always do. So, when it came time for my transmission, I told the net about the 47 bus (a rather lengthy ride) which I take home each night from the Salt Mines. Somebody on 220 said "He took the long bus. Don't they have short busses?" (That someone sounded like WA3AXV). So I took that phrase and made a poem out of it called "The Long Bus". It was read on the 2 meter net on November 12. Many hams have asked for copies of it, so here it is -- Last week in the net they made such a fuss about a trip I took on a rather long bus Boy were they ever upset! Well, fuss as they will and fuss as they might I still made it home on Monday Night in time for the two meter net.

73,

Paul Rilling, WA3HIT

* * *

VISITORS AT THE NOVEMBER 15, 1973 MEETING

W2HX, BB Wentzel, Trenton, N.J.; W2DU, Walt Maxwell, Dayton, N.J.; W2FIV, Karl Townsend, Mt. Laurel, N.J.; WN3VJU; Matthew Smith, Southampton, Pa.; W3CIL, Peter Cummings, Wyndmoor, Pa.; K3LOM, Harry Brandt, Ambler, Pa.; K3SPS, Murray Bevitz, Spring House, Pa.; Mitch Sayre, Phila., Pa.

* * *

OFFICIAL BULLETIN NR 452 FROM ARRL HEADQUARTERS NEWINGTON, CT. NOV. 8 1973 TO ALL RADIO AMATEURS
BT: The next ARRL Simulated Emergency Test will take place Jan. 26 and 27, 1974. This serious operating exercise tests both emergency preparedness on a community to community basis as well as long haul traffic facilities. Every amateur should participate in some way in the SET and thereby help to justify the amateur service in terms of the public interest, convenience and necessity. Plan now to participate by contacting your local Emergency Coordinator. Further information can be obtained from your Section Communications Manager, address page 6 QST. Full SET details will appear in the December issue of QST. AR

* * *

VHF/UHF REPORT

By Jo, W2EIF

The activity on the bands, 50 MHz and up dropped to what might be considered a low ebb during October. This is probably due to the absence of DX on 6 meters and the drop in openings caused by temperature inversions. This can be expected with the advent of colder weather.

VHF/UHF CONTINUED

During the early half of November activity has picked up a little. There was a good temperature inversion the night of November 13th and I was able to work W8YIO in Michigan on 2 meters. However, the activity was not impressive. How often have I heard the expression - "Where is everybody. I get on and there is no activity." It has gotten to the point where even Paul W8III in Ohio, who is a guaranteed section contact is getting disgusted. If you want to be able to work guys like Paul in the contest and increase activity, remember you are part of the activity. Don't come on after not operating for a long time and expect to find activity, or complain about what you are not hearing. They have done the same thing when you were not on. The January VHF Contest which this year is held on the 5th and 6th will have the same scoring rules as in previous years but the message is changed. They have dropped the requirement for sending signal report, the time and date but added a letter and another number. It is better than before, but could have been improved further. The information you will now be required to send is NR., A or B (depending on the power input), your call, another check number (last two digits of the year you got your license) and finally the section you are in. Suppose you are running 49 watts or less. Your message would go like this -- "You are Nr. 321A, from W3---, check 65, EPa." If you are running 50 watts or more input and were licensed in 1957 the message would be "You are Nr. 321B from W3---, check 57, EPa." I would like to see all club members who are going to be in the January Contest at the December Meeting. I will have a tape of the recent November SS Contest which will illustrate the procedure. Don't forget to get in on WB2MTU's Space Net Contest in Mid December. It can serve as a warm up and also enable you to check out your rigs.

73, Jo, W2EIF

* * *

TID BITS

The Pack Rats extend their condolences to Helen Brick, (XYL; W3SA0) affectionately known as "Mother Rat", on the passing of her mother on November 14, 1973.

Come to the December Meeting on the 20th. Get your engraved certificate for your efforts in the January 1973 VHF SS. New Pack-Rat directories will also be available at that time.

We already have a change to make to the new directory - Delete the phone number listing for K3AUH. New Number not available.

Congratulations to John, K3DMA and his fiance Lorraine who will be married on December 15th. Add Lorraine to K3DMA listing in the directory.

A number of the gang stayed on until almost midnight at our last meeting on November 15th when W2DU, Walt Maxwell gave an excellent presentation on his 'SWR' articles. Looks like we will need a return engagement Walt to field the rest of the questions.

Participate in the 9 day and night zip code VHF Space Net Contest from December 15 to December 23 inclusive. Mail your logs promptly to WB2MTU, Tony Slapkowski, Space Net Contest, Box 909 Sicklerville, N.J. 08081. Clear your scores via Rich, K3ACR.

* * *

A LETTER TO JO, W2EIF From Bridgeton, Barbados dated 2 Nov. 1973

Dear Joe:

Just a note to let you know I leave here at the end of December to go back to VK5 where I should be on under the call VK5IR.

I will probably pack up the station at the end of November, so I guess no more 6m DX to the US for me. We are getting good TE down south at present, mainly PYs, but terrible flutter on all signals.

I have attached a small writeup on the use of beacons which you can use for Packrats if its suitable.

My change of address is attached and one dollar enclosed for a years subs. for Packrats - if you could pass these on.

Cheers for now, Joe

Alan

DON'T LET DX GET YOU HOARSE

By Alan, 8P6EN, VK5ZET, VKETR

When looking for DX, the perfect way is to call CQ and listen with infinite patience and for all the hours you are home. Even if this was tolerated by the XYL, you would not get any homebrew projects built! One compromise is to run a beacon using VOX circuiting - this is so easy that more of this should be done. Instead, get more projects built without missing DX.

A simple method is using a continuous tape loop in a tape recorder and patch it in to the VOX plug. My loop lasts 3 minutes composed of 20 seconds CQ, 10 seconds listening, 20 seconds CQ, 10 . . . , etc. I tried to build a continuous loop cassette unsuccessfully before I found out they are available commercially.

Use voice on CW - I prefer voice for 6 meters as more people copy SSB than CW.

Particularly, on 6 meters double or triple hop sporadic E, openings can be very short and very localized. To utilise these openings, constant calling and listening is a must. Here the beacon is invaluable.

A new country in 1974 for six meter operators will be John, WB2LAW in St. Lucia who is running 20 watts AM about 50.1.

If anyone has missed my QSL (the mail can be bad between the US and Barbados) please let me know at 24 Seafield Avenue, Kingswood, SA 5062 Australia.

* * *

FROM THE PENN-JERSEY YL RADIO CLUB PAPER QRV

I KNOW SOMETHING GOOD ABOUT YOU

Wouldn't this old world be better
if the folks we meet would say,
"I know something good about you"
And then treat us just that way?
Wouldn't it be fine and dandy
if each handclasp warm and true
Carried with it this assurance,
"I know something good about you-"
Wouldn't life be lots more happy,
if the good that's in us all
Were the only thing about us
That folks bothered to recall?
Wouldn't life be lots more happy,
If we praised the good we see?-
For there's such a lot of goodness
In the worst of you and me
Wouldn't it be nice to practice
"That fine way of thinking, too?-"
You know something good about me -
I know something good about you!

* * *




NOTE: We are planning a "Homebrew Night" for the meeting of February 21st so get your projects going. There will be the usual displays and prizes in all categories.

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FOR SALE: EICO Stereophonic Preamp-Model HF85 with instruction manual. EICO Stereophonic Dual 35 watt power amplifier model HF-87 with instruction book. Output power - 20 watts continuous from each amplifier-- 140 watts peak. Two 12in. speakers and 4in. woofers - All for \$100.00.
CONTACT: Richard Duris,
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WANTED: Antenna Base Insulator to Support a 90 Foot aluminum tower -
CONTACT: Tony Sivo, W2FJ
11-16 Fox Run
Plainsboro, N.J. 08536

* * *

OFFICIAL BULLETIN NR 453 FROM ARRL HEADQUARTERS NEWINGTON CT NOVEMBER 15, 1973 TO ALL RADIO AMATEURS BT: Carrying on the fight to keep all of 220 MHz for amateurs, the League recently filed with FCC a 72-page Opposition to Proposed Rulemaking and Request for Oral Argument, taking strong issue with the proposal to put CB on that band. December QST carries a summary. Shortly ARRL will file replies to comments of industry, including those of the proponent EIA and manufacturers such as E.F. Johnson, Hy-Gain, and others which support 220 CB. Such reply comments are acceptable at FCC until November 23. AR



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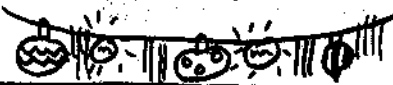
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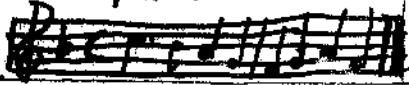
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W3HIT
6 AM, CW
2 AM, CW, FM
1/4 AM

SEASONS
GREETINGS
Rich
K3ACR

Seasons
Greetings
Pete
W3OVH
Alias-W3RCA



MERRY
CHRISTMAS
&
HAPPY
NEW YEAR
W3MSI

SEASONS
GREETING'S
K3UJD
MARIO



K4LV Pappa
K3WGR Don
K3WGT Bruce
Seasons Greetings
from
Florida
Huntingdon Valley
Ardmore

Holiday
Greetings
Harry
W3HKG

5-9-- E. PA.
SEASONS
GREETINGS
WB4ORG
K3ZSG. BILL

Seasons
Greetings
JOE - W3YXF

SEASONS
GREETINGS
FROM OTTSVILLE
PA.
YO HO HO
Biel K1JDY/3

Seasons
Greetings from
John and Barbara
K3KTY

SEASONS
GREETINGS
Geo. & GRACIE
W3HK - W3BJQ

SEASONS
GREETINGS
FROM W3ZD
chairman
HAMARAMA and
BARCC

HOLIDAY WISHES
FROM CHEESE-BITS
STAFF
W3CL W3TEM
K3GAS K3ZKO

SEASONS
GREETINGS TO
OUR ADVERTISERS
FROM THE
AD SALESMAN
K3Mxm-z



PERHAPS IT IS a normal procedure in the current federal bureaucracy. But we can't help noticing that in proposing a new Class E CB service at 224 MHz, the Federal Communications Commission is pretty much ignoring the results of an extensive professional study of CB it has already bought and paid for.

The analysis, prepared for FCC by Advanced Technology Systems a couple of years ago under government contract, among other things shows that 70% of CBers find the present service quite satisfactory, and 20% more say it would be adequate if rules were enforced. Since the ATS study recommended a number of steps to curb misuse, it seems that if the Commission had followed the advice it sought -- and paid for with public funds -- 90% of its CB licensees would be perfectly content.

Where, then, is this need "of the general public for improved radiocommunication services not now effectively provided by the Class D CRS," this "pent-up demand"?

It hasn't really been shown to exist, of course; there is only pure speculation by industry. The petition triggering FCC's proposal came from the Electronics Industries Association, not from the public; and much of the comment in support (a weak minority at that) is from the CB manufacturing industry, not primarily from users or would-be users. In these days of consumerism, it isn't hard to demonstrate that the interests of the manufacturers and of the general public do not always coincide.

EIA was quoted by the Commission as having predicted a potential of ten million (10,000,000) Class E licensees. FCC's notice requested more information on what kind of calculations produced this figure. EIA's response furnishes nothing but guesses -- "projections . . . expected . . . should be . . . experience indicates . . . we feel confident in predicting . . ." But at least the manufacturers apparently realized the ten million figure was preposterous and quickly changed their tune. The current EIA comment says there "should be" a growth of 250,000 per year, and "it is not unlikely" that in ten years there will be three to four million. Now, how they get 4,000,000 from ten times 250,000 is arithmetic much too complicated for us, especially when it obviously assumes 100% renewal for ten years. Further, in 1972 EIA predicted Class E would be in one out of every 10 new cars sold. Perhaps with more morning-after second thoughts, today they predict one out of 15. Are Commissioners really persuaded by this kind of wildly changing speculation? Especially when FCC records show continuing decreases in CB licensees the past three years -- 886,951 to 868,013 to 848,029 to 834,012.*

The ATS survey said (emphasis ours): "No conclusions have been drawn relative to the need for more frequencies or a movement of the allocation for this service to a different place in the spectrum. The reason for this is a conviction that the service has problems for which **corrective action is necessary and can be successful without regard to the availability of additional channels.**"

Once more, FCC appears to have disregarded the advice it sought and paid for.

An examination of the comments in the FCC Docket 19759 file shows perhaps 40 to 1 in opposition to the 220 CB proposal. Such public opinion is certainly not infallible, nor does a "think tank" like ATS have all the answers. But it will be most interesting -- and highly significant -- whether the Commission's decision will be influenced by the results of a contracted professional study of the specific subject, along with an almost-unanimous expression of the public it serves; or whether it will be influenced more by purely economic considerations as seems to be so typical of the current administration.

*Oh, those are just figures, the manufacturers tell us; CB is really growing fast -- the newcomers just don't bother to get a license.




"TO ALL PACKRATS"

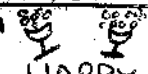
1973 - Jan. 5 & 6 - VHF SS Contest

Contest
Chairman
K3ACR - Rich

Committee
W3CL - Harry
W2EIF - Joe
K3GAS - Doc
WA3NGK - Harry
W3ZD - Dave

DECEMBER 1973

SUN	MON	TUE	WED	THUR	FRI	SAT
9	10 CHECK INTO NETS	11	12 DIRECTORS MEETING QTH K3IUV	13 GET ON THE AIR	14 	15 SPACE NET CONTEST STARTS
16 SPACE NET CONTEST	17 CHECK INTO NETS	18 GET ON THE AIR	19 GET ON THE AIR	20 PACK RAT MEETING GET CONTEST PACKAGE	21 NUMBER LOG SHEETS	22 GET LAST MINUTE SHOPPING DONE SPACE NET CONTEST
23 SPACE NET CONTEST ENDS	24 CHECK INTO NETS	25  MERRY CHRISTMAS 	26 GET ON THE AIR	27 GET OPERATING POSITION IN ORDER OPERATE	28 GET ON THE AIR	29 GET SPARES IN ORDER OPERATE
30 GET ON THE AIR	31 CHECK INTO NETS	<p><u>PLEASE</u> - HANG THIS CALENDAR IN YOUR SHACK <u>REMEMBER</u> - PLAN AHEAD, PREPARE THE HOUSEHOLD <u>OPERATE</u> - AS MANY HOURS AS POSSIBLE</p>				

SUN	MON	TUE	WED	THUR	FRI	SAT
<p>JANUARY 1974 CONTEST STARTS 5th 1400 ENDS 6th 2400</p>		<p> HAPPY NEW YEAR</p>	<p>2 THE CLUB NEEDS YOUR SCORE</p>	<p>3 LAST MINUTE CHECKS OF EQUIPMENT OPERATE</p>	<p>4 GET LOTS OF REST</p>	<p>5 VHF SS CONTEST GOOD LUCK</p>
<p>6 VHF SS CONTEST GOOD LUCK</p>	<p>7 CHECK INTO NETS WITH CONTEST #3</p>	<p>8 GET LOGS IN ORDER</p>	<p>9 DIRECTORS MEETING</p>	<p>10</p>	<p>11 GET LOGS TO YOUR COORDINATOR</p>	<p>12</p>
<p>13</p>	<p>14 CHECK INTO NETS</p>	<p>15</p>	<p>16</p>	<p>17 CRYING TOWEL MEETING</p>	<p>18</p>	<p>19 CONTEST WRAP UP MEETING QTH W3ZD</p>

STORE HOURS: TUE & THUR 9:30-6:00, WED. & FRI. 11:30-9:00, SAT. 9:30-5:00, CLOSED MONDAYS

ELECTRONIC EXCHANGE

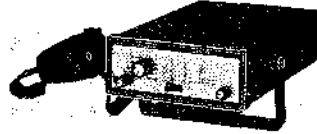
AMATEUR RADIO • SHORT WAVE RECEIVERS • ELECTRONIC EQUIPMENT

GTX-10 by Genave

10 watts output power nom.; accommodates 10 channels; rotatable frequency selector; adaptable for portable operation (with HamPak, below).

\$199.95

(Includes 146.94 MHz)



GTX-2 by Genave

30 watts output power nom.; accommodates 10 channels; pushbutton frequency selection; back-lighted for night operation.

30 Watts R.F. Output for Only

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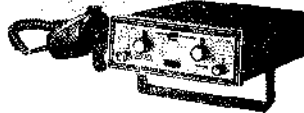
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30 watts output power nom.; accommodates 100 channel combinations; features independent selection of transmit and receive frequencies, and switch for pre-selected pairing.

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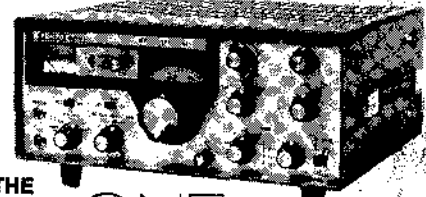
Stainless steel or Satin Gold finish case with selected walnut finish wood ends. Matching nickel or brass feet. 3 3/8" high, 7 3/4" wide, 3 3/4" deep. Shipping weight: 3 lbs.

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Look at the specifications... look at the price tag... ask any of the thousands of Tempo ONE owners about its reliability... and the reason for its unparalleled popularity will be obvious. The Tempo ONE is now the proven ONE.

FREQUENCY RANGE: All amateur bands 80 through 10 meters, in five 500 khz. ranges: 3.5-4 mhz., 7-7.5 mhz., 14-14.5 mhz., 21-21.5 mhz., 28.5-29 mhz. (Crystals optionally available for ranges 28-28.5, 28-29.5, 29.5-30 mhz.)

SOLID STATE VFO: Very stable Colpitts circuit with transistor buffer provides linear tuning over the range 5-5.5 mhz. A passband filter at output is tuned to pass the 5-3.5 mhz. range.

RECEIVER OFFSET TUNING (CLARIFIER): Provides ± 6 khz. variation of receiver tuning when switched ON.

DIAL CALIBRATION: Vernier scale marked with one kilohertz divisions. Main tuning dial calibrated 0-500 with 50 khz. points.

FREQUENCY STABILITY: Less than 100 cycles after warm-up, and less than 100 cycles for plus or minus 10% line voltage change.

MODES OF OPERATION: SSB upper and lower sideband, CW and AM.

INPUT POWER: 300 watts PEP, 240 watts CW

ANTENNA IMPEDANCE: 50-75 ohms

CARRIER SUPPRESSION: -40 dB or better

SIDEBAND SUPPRESSION: -50 dB at 1000 CPS

THIRD ORDER INTERMODULATION PRODUCTS: -30 dB (PEP)

AF BANDWIDTH: 300-2700 cps

RECEIVER SENSITIVITY: 1/2 μ v Input S/N 10 dB

AGC: Fast attack slow decay for SSB and CW

SELECTIVITY: 2.3 khz. (-6 dB), 4 khz. (-60 dB)

IMAGE REJECTION: More than 50 dB

AUDIO OUTPUT: 1 watt at 10% distortion

AUDIO OUTPUT IMPEDANCE: 8 ohms and 600 ohms

POWER SUPPLY: Separate AC or DC required. See AC

"ONE" and DC1-A.

TUBES AND SEMICONDUCTORS: 16 tubes, 15 diodes, 7 transistors

TEMPO "ONE" TRANSCEIVER \$349.00

AC/ONE POWER SUPPLY 117/230 volt. 50/60 cycle \$ 99.00

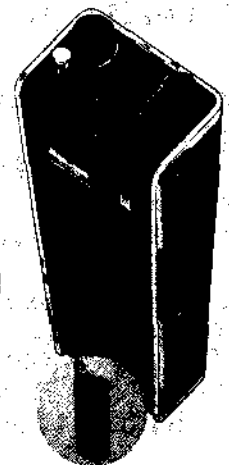
DC/1-A POWER SUPPLY 12 volts. DC \$110.00

VF-ONE EXTERNAL VFO \$ 99.00

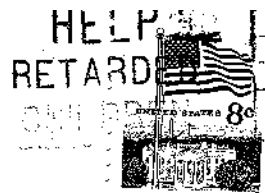
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TUES. 9:30 TO 10:30
WED. 9:30 TO 9 PM.
THURS. 1:30 TO 9 PM.

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FOR \$88.00, FITS G STAND
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ASTATIC MODEL 6D10L
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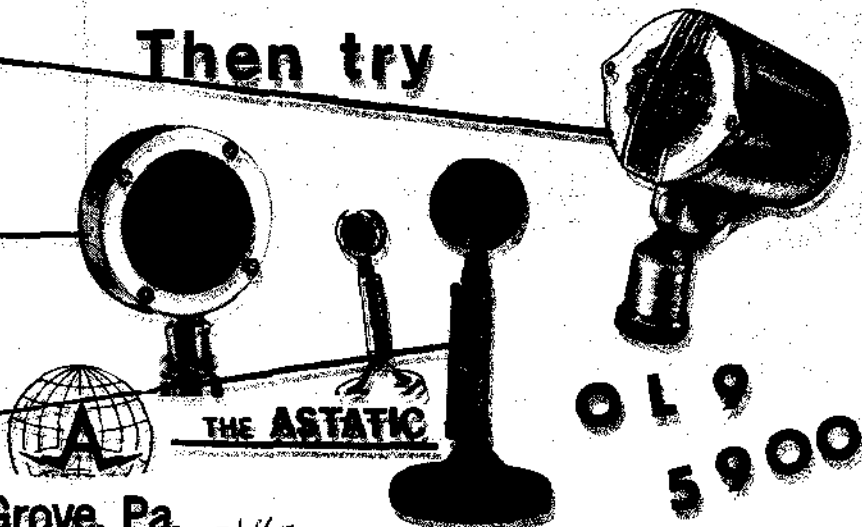
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REG PRICE 31.00

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