



PACK RATS'

CHEESE BITS

CLUB CALL: W3CCX



MT. AIRY V.H.F. RADIO CLUB, INC., PHILA., PA.
(50.2, 145.2, 221.4, 432.3 & 1296.3 MC)

AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE

MEETINGS: THIRD WEDNESDAY OF EACH MONTH AT 8:00 P.M.

VOLUME III

NOVEMBER 1969

NUMBER 11

OUR PREZ SEZ

What are the Pack Rats?

Ever stop to think about the members? What, besides Ham Radio, do they do? What is their work (i.e., job, profession, racket)? Did you ever realize the variety of talents in this club? Listen to this:

We have teachers, printers, jewelers, salesmen (lots of these), students, professors, and a cab driver. To stay healthy, we have a psychiatrist, doctors, dentists, pharmacists, and one quack (I think). Also, a policeman, a lawyer, a bail bondsman, a bus driver, and an ex G-man. Do you know the plumber, the chemist, and the metallurgist? You should. There are t.v. servicemen and telephone men. Electricians, textilers, mechanical engineers, managers are here. Electronics men of all types, sizes and shapes abound in the club. There's an oil tycoon (xfmr oil, anyone?) and a retired piano player. Also others I'm not sure about.

Many of the above are also philosophers, comedians, inventors (jury rig), chow-hounds, rogues, possibly some draft-dodgers, and certainly some tax evaders.

Many are self-employed, others are in industry, small and large, some work for the Government.

continued on page 7

DEADLINE FOR ARTICLES IS THE GENERAL
MEMBERSHIP MEETING.

EDITOR:

K3JJZ, ELLIOTT WEISMAN
8533 ALGON AVENUE
PHILADELPHIA, PA. 19152
215 - PI 2-3525

TRUSTEE OF CLUB CALL: W3CCX

W3SAO, FRANCIS BRICK
821 W. LINDLEY AVENUE
PHILADELPHIA, PA. 19141
215 - DA 4-7524

PUBLISHER AND SUBSCRIPTION MANAGER:

K3GAS, DOC CUTLER
7815 NEW SECOND STREET
PHILADELPHIA, PA. 19117
215 - ME 5-1078

PRINTER:

K3ZPN, LLOYD SCHOENIG
P. O. Box 6001
PHILADELPHIA, PA. 19114
215 - 637-6455

AWARDS CHAIRMAN:

W2EIF, JOSEPH KILGORE
#5 SUNNYBROOK COURT
STRATFORD, N. J. 08084

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

MONDAY NIGHT NETS:

145.2 - 7:30 P.M.
50.2 - 8:30 P.M.
221.4 - 9:30 P.M.
432.3 - 10:00 P.M.

OFFICERS - 1969-1970:

PRESIDENT: W3KKN, ERNIE KENAS
VICE-PRES.: K3JJZ, ELLIOTT WEISMAN
CORRES.SEC.: W3SAO, FRANCIS BRICK
REC. SEC.: K3ZPN, LLOYD SCHOENIG
TREASURER: W3MVF, DAVE BLOCH

DIRECTORS: K3HSS, CHARLES LUSTICK
K3KTY, JOHN TATE
W3CJU, DONALD HAMPTON
W3CXU, JOHN ALLEN
K3MXM, LEE COHEN
K3CIV, RALPH HERSH
(Ex-Officio)

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PACK RATS' CHEESE BITS is a publi-
cation of the Mt. Airy V.H.F. Radio
Club, Inc., Philadelphia, Pa., and
is published monthly.

20¢ per copy \$2.00 per year

We operate on an exchange basis
with other publications and any-
thing that is printed in CHEESE
BITS may be reprinted, unless so
stated, as long as the proper
credit is given.

* * * * *

ARRL BULLETIN

NR 240, September 24, 1969

The FCC adopted an order on Septem-
ber 24 modifying Docket 15928 to
provide that all Extra Class c.w.
bands will remain at 25 kHz, and
the 6 meter assignment will remain
unchanged. However, all previously
scheduled additional phone band
restrictions go into effect on
November 22 AR.

* * * * *

DID YOU KNOW

W3SAO, Frankie Brick, has been
appointed Publicity Chairman.
Frankie was responsible for the
excellent auction publicity for
last meeting.

W3CL, Harry Stein, announced that
the new club directory is avail-
able. The directories may be
picked up at any club meeting.
They will not be sent through
the mail.

W3KKN, Ernie Kenas, is still search-
ing for a volunteer to run code
practice sessions on six meters.
If you are interested contact
Ernie for details.

ANTENNA MEASURING PARTY
K3BPP, Walt Bohlman

The Mt. Airy V.H.F. Club held its second Antenna Measuring Party on October 5 at the QTH of K3UJD, Mario Fontana.

The weather was perfect for an out-of-doors activity, which may be why more did not come out. There were about fifteen people in attendance at various times throughout the day. Coffee and doughnuts were provided by Mario's XYL Flose.

The procedures used this year are the same as last year and will be repeated for the benefit of the newcomers.

The steps used in making the measurements are as follows:

1. A commercially made calibrated dipole was adjusted to the proper length and mounted on the rotating mast.
2. The radiation pattern of the dipole was recorded on a strip chart recorder (the recorder was driven by a right angle output shaft from the recorder and the pen was connected in series with the "S" meter of the receiver).
3. The dipole was then positioned broadside to the signal source, the strip chart was then calibrated in db with reference to a dipole by means of a calibrated attenuator.
4. The antenna to be measured was mounted on the mast in place of dipole.
5. A known amount of attenuation was then inserted in the cable from the antenna thus dropping the level of the pen on the recorder. When the signal level indicated by the position of the pen came up to the dipole reference level, the gain of the antenna was equal to the inserted amount of attenuation. The calibrated scale allowed any amount of gain to be measured.
6. The antenna was then rotated 360° and the changing signal level recorded as a function of position.

Most of the problems of last year's set-up were ironed out this year. The pen with the red ink worked very well this year thanks to K3GAS, but I wore a red shirt just in case.

The Measurements

Some of the results disappeared before they were recorded but the following is a list of what we ended up with:

2 Meters

K3ZPN	6 Elements	12 db	
	10 Elements	1st 4 ele. backward	10 db
	10 Elements	1st 4 ele. foreward	12 db
		10 db F/B	
W3CJU	7 Element Club Antenna		9 db
		15 db F/B	

ANTENNA MEASURING PARTY (Continued)

<u>220 MHz</u>			
K3JJZ	Big Wheel	omni within 3 db	-1 db
<u>432</u>			
W3CXU	60° Corner Reflector	(matching problems)	
K3BPP	11 Element W1HDQ Beam		11 db
	9 db F/B		
<u>1296</u>	11 db gain A.E.L. Horn	used as standard	
K3IUV	30" Dish		13 db
	Rhombic		12 db
		6 db F/B - Many side lobes.	
		Simplest thing going on that band.	
	Corner Reflector		5 db
K3GAS	Collinear		8 db
		With much feed line.	

The committee wishes to thank all of those that came with help as well as antennas. It is hoped that the get-together was informative and enjoyable to all.

K3BPP, Walt

IN THE MORNING

Tired of that same old routine. Like to start the day off with a few remarks, like to get a few things off your chest before you must face your boss or your public for the day - then bunky listen closely - I'll tell you what to do.....

Join the gang on 50.20 every morning at 7 a.m. Yes, that is correct - 7 a.m. where you will meet the head harpooner by the name of BIG TOM who sometimes answers to the call of W3WIJ. His fellow lancers might be K3LNX now known as W2DIL/M or Frank, K3GAS Doc, W3OR Alan, and even ye editor K3JJZ/M, and of course the candy kid himself WA3CND.

This meeting place has been held through squatters (who can stand at this time of day) rights to these past five years with an ever changing cast of characters. Yes, characters for who or whom else would get up at 7 a.m. and press a cold piece of metal called a mike against your nose, when a pillow is so warm and nice and soft.

Going over a few logs reveals past checker-inners as K3ZPQ/M, Bob Elmer, always trying to beat his secretary to the best parking place on the Philco-Ford roof; K3GQJ/M, wondering what troubles he can create for the phone system for the day; Tom, W3IA, giving his views; and, of course, K3ABK, Sam, the ever-faithful time keeper and ex-printer; and a missed silent key by the name of Otto, K3HEY.

Come on in - the air is full of sharp jibes and the waves are not always smooth!

K3MXM, Lee

A CURE FOR YOUR SILENT ELEMENTS

IF YOU POSSESS A POPULAR BRAND COLINEAR ANTENNA AND NO ONE CAN HEAR YOUR SIGNAL INSTALL THE FIX SHOWN BELOW. IF YOU INSTALL THE FIX PROPERLY AND NO ONE CAN HEAR YOUR SIGNAL- JUNK YOUR TRANSMITTER!

①-PLASTIC INSULATOR

②-NUT

③-STRAP

④-NUT

⑤-COMPRESSION WASHER

⑥-STACKING BAR

⑦-SCREW 6-32-1" LONG

⑧-NUT-6-32

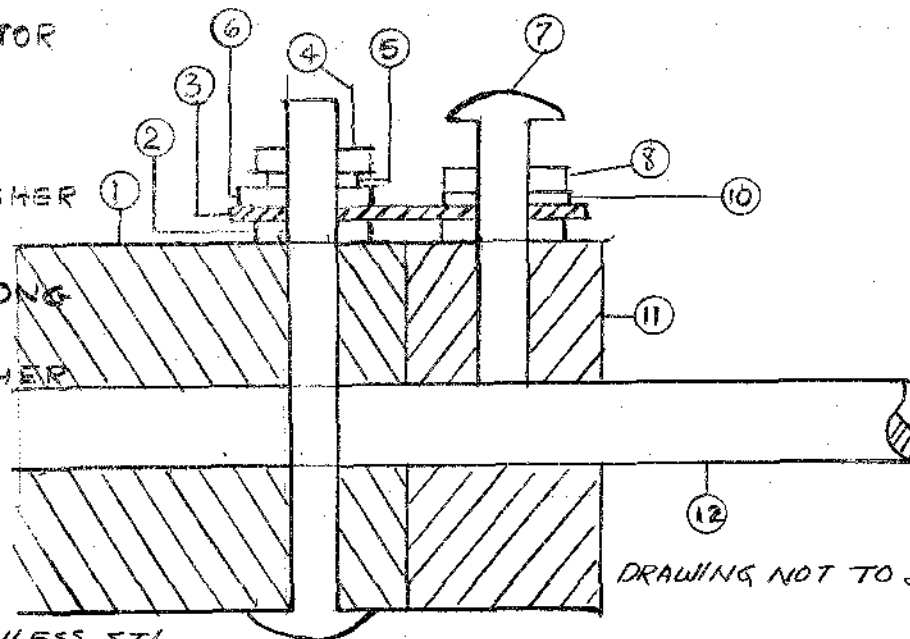
⑨-COMPRESSION WASHER

⑩-NUT 6-32

⑪-SPACER

⑫-ELEMENT

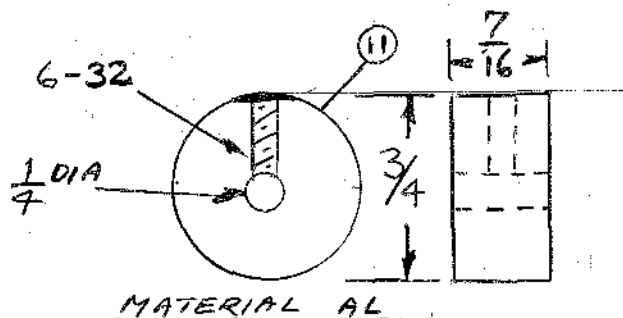
⑬-SCREW



DRAWING NOT TO SCALE

ALL HARDWARE STAINLESS STL

SUBMITTED BY K3HJS



MATERIAL AL

APPROX .030 THICKNESS



MAKE TO FIT SCREW SPACING
MATERIAL AL

MT. AIRY V.H.F. RADIO CLUB
1970 V.H.F. SWEEPSTAKES CONTEST
JANUARY 10-11, 1970

COMMITTEE: K3HSS, Chas.
W2EIF, Joe
K3GAS, Doc

CO-CHAIRMAN: W3CL, Harry
W3LHF, Dave

COORDINATORS AND TEAMS: (*2nd Coordinator)

WA3CAG
W2AXU*
WB2OAD
W2LZA
K3GQJ
W3MPY
K3ZVD

WA3FAA
WA3TMT* K3ZCY
WA3EFS WA3NLT
W3THT
K3UJO
W3KKV
K3ZPQ

W3CXU
W3CL*
K3ACR
K3AUH
WA3EHD
W3ISV
K3NMV
W3SMK

K3BPP
W3CJU*
K3AA
W3BAH(W3BQU)
W3BRU
K3EPB
K3EOU
K3GAY W3IK

K3UJD
W3LHF*
K3BHK
K3IPM
K3IUV
W3JSD
K3KMN
K3WGJ
K3WGK(W3BEL)

WA3LNF
W3FGQ* K3ZCY
K3BOY
K3DUC
WA3GNV
W3HFX
W3HKZ
W3OR
W3RZU
K3WEU
K3YPL

K3EOD
W3HK*
K3JJZ
K3KTY
W3NSI
W3OZP
W3PST
K3ZPN
W3ZRR
WA3KJN

K3IGX
W3AJF*
WA3BIV
K3CIV
W3CLT
K3EHQ
W3IXL
W3QB
K3VEQ
W3ZTL

WA3ERQ
W3MVF*
WA3BRV
WA3CND
K3ESL
W3GEW
K3KUB
W3KXH

K3OBY
K3MXM*
K3GAS
WA3HIT
K3HSS
W3MSV
W3SAO(W3CCX)
K3ZKO

K3DLS
W3WIJ*
K3ALK
K3HJA
W3HYO
W3IA
WA3JSR

WB2SZK
W2EIF*
WB2IOE
W2DIL
WB2NOK

1st Coordinator Meeting
November 6, 1969 - 8 P.M.
QTH - K3GAS, Doc

2nd Coordinator Meeting
January 24, 1970 - 10 A.M.
QTH - W3LHF, Dave

OUR PREZ SEZ continued

Seriously, what does all the above mean? A cross-section of fun-type, hard working guys with talent and knowledge of many things, glued together by ham radio.

This is the Mount Airy VHF Club. I'm pretty proud, are you?

W3KKN, Ernest Kenas

P.S.: The above is the result of a search for a ghost writer. Speak up, wherever you are!

FROM THE BOOK RACK

Paul R. Behrmann, K3WEU/AREA*

AMATEUR TESTS AND MEASUREMENTS

Author: Louis M. Dezettel, W5REZ

Publisher: Howard W. Sams & Co., Inc., Catalog # 65072

Size: 192 pages, softbound

Price: \$4.95

Includes the know-how for the average amateur and technical experimenter to perform almost all necessary performance tests and make adjustments to transmitters, receivers, and antenna. Simplified language although some necessary math is included.

###

73 DIPOLE AND LONG-WIRE ANTENNAS

Author: Edward M. Noll

Publisher: Howard W. Sams & Co., Inc., Catalog # 65071

Size: 160 pages, softbound

Price: \$4.50

For the first time, practically every type of wire antenna used by amateurs is included under one cover. Includes dimensions, configurations, and construction data for 73 different antennas plus appendices covering the construction and operation of noise bridges and antenna linetuners, as well as data on measuring resonant frequency, velocity factor and SWR.

* Amateur Radio Editors Association.

SILENT KEYS

We are saddened to have to report the death of two of our Pack Rats this month:

WILLIAM McCUTCHEON, W4ZPF (ex. 8AED, ZL2JX, VK20X, K3HWZ) passed away on October 9, 1969, after a short period of hospitalization near Holly Hill, Florida, where he and his XYL, Marie, were spending their retirement.

"Grandpa Bill", as he was fondly known here in the 3rd call area, was first licensed before World War I and held calls in the 8th district as well as in Australia and New Zealand. Bill was a dynamic president of the Pack Rats and was probably best known for his "Buck A Brick" campaign on behalf of the ARRL building fund.

THEODORE LEAF, W3BVR, passed away on October 19, 1969, after a long illness. Ted first was licensed in 1920 under his present call. He was a pioneer in commercial mobile FM radio. He retired from the Naval Air Development Center about two years ago after a 20 year stint in Government service.

Both Grandpa and Ted were members of the Delaware Valley Chapter, QCWA.

These two will be sorely missed.

W3CL, Harry Stein

WE GET LETTERS

King 3 Mike Xray Mike

Saturday Afternoon

Dear El:

Doc has been helping me or I should say I have been trying to help Doc put my DX 100 back on the air. In the course of problems, dummy loads came up. Remembered a cutting from one of the exchange papers. Doc thought it most good to be inserted in CHEESEBITS.

A copy is as follows:

SOME THOUGHTS ON DUMMY LOADS

or

Summer Time is Antenna Time

(Courtesy VE News and VE6QK) The following list shows the average impedance of the standard light bulb when loaded to full capacity, or normal brilliancy:

25 watt lamp - 600 ohms	60 watt lamp - 250 ohms
150 watt lamp - 150 ohms	40 watt lamp - 350 ohms
100 watt lamp - 150 ohms	300 watt lamp - 50 ohms

continued on page 9

SWAP SHOP

Conducted by: W3ZRR, Ray Whitehead
7329 Shelborne St.
Phila., Pa. 19111
215 - RA 2-4786

FOR SALE

- 1 Emerson portable t.v. \$30
- 1 RCA portable t.v. \$30
- both early 1950 vintage

CONTACT: WA3HIT, Paul Rilling
5750 Rising Sun Avenue
Philadelphia, Pa.
215 - RA 2-4411

FOR SALE

- Ham paradise -- several acres on a high hill with 5 telephone poles suitable for rhombic. Nice for VHF. Five room masonry Cape Cod with garage. Former qth of W3BU. Nice ham shack with lots of power. Reasonable.

CONTACT: EL 7-4898 for appointment
Holland, Pennsylvania

FOR SALE

- Gonset communicator II B with carbon mike, coil cord and 5 crystals. Perfect condition.

CONTACT: K30EJ, Art Garner
117 Walnut Hill Lane
Havertown, Pa. 19083
HI 6-7144

FOR SALE

- One 2-meter transmitter/receiver. Receiver Unit - Lafayette HA 1200, built-in VFO AM transmitter, Receiver-triple conversion--built-in power supply (AC-DC) with mike, mobile bracket and all power cord. \$125

CONTACT: W3NSI, Lynn Rowland
11934 Farwell Road
Philadelphia, Pa. 19154
NE 2-4791

WANTED

- HAM RADIO MAGAZINE, April, May 1968; also QST - all issues before 1920 and several issues from 1920, 1921 and 1923.

CONTACT: K3IUV, Bert
215 - WI 7-4483

* * * * *

MEETING NOTICES

The next DIRECTORS MEETING will be held on Wednesday, November 12, at the QTH of W3SAO, Frankie Brick, 821 W. Lindley Avenue, Philadelphia, Pa. 19141, at 8:00 P.M.

The next REGULAR MEETING will be held on Wednesday, November 19, at the West Oak Lane Jewish Community Center, Sedgewick and Thouron Streets, Philadelphia, Pa. Starting time 8:00 P.M. Topic: Apollo 11 Moon Films, 16 mm, color, sound. Don't miss this one.

* * * * *

WE GET LETTERS continued

So you can see a 300 watt bulk is the best equal to a 50 ohm impedance and not a 100.

Lee

P.S.: It is working and am now back on 10.



K3UJD's Homebrew dish with
mount



K3UJD holding 1296 horn
next to table with attenuator
converters and receiver.
K3JJZ in background



K3BPP & GAS holding
club 2m. beam. W3CJU
standing K3IUV kneels
while inspecting
corner reflector



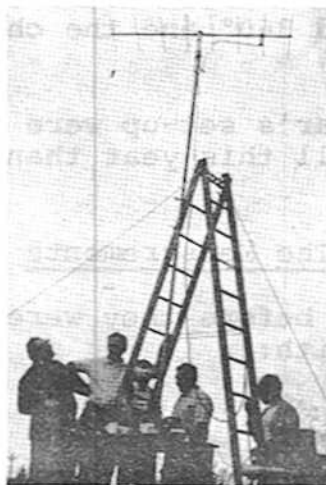
K3's IPM, JJZ, GAS & UJD
checking out mast drive
and chart recorder



K3IUV with his 60' rhombic, 12 db
gain - 5' a db
isn't bad Bert



K3IUV with 1296
HB Dish



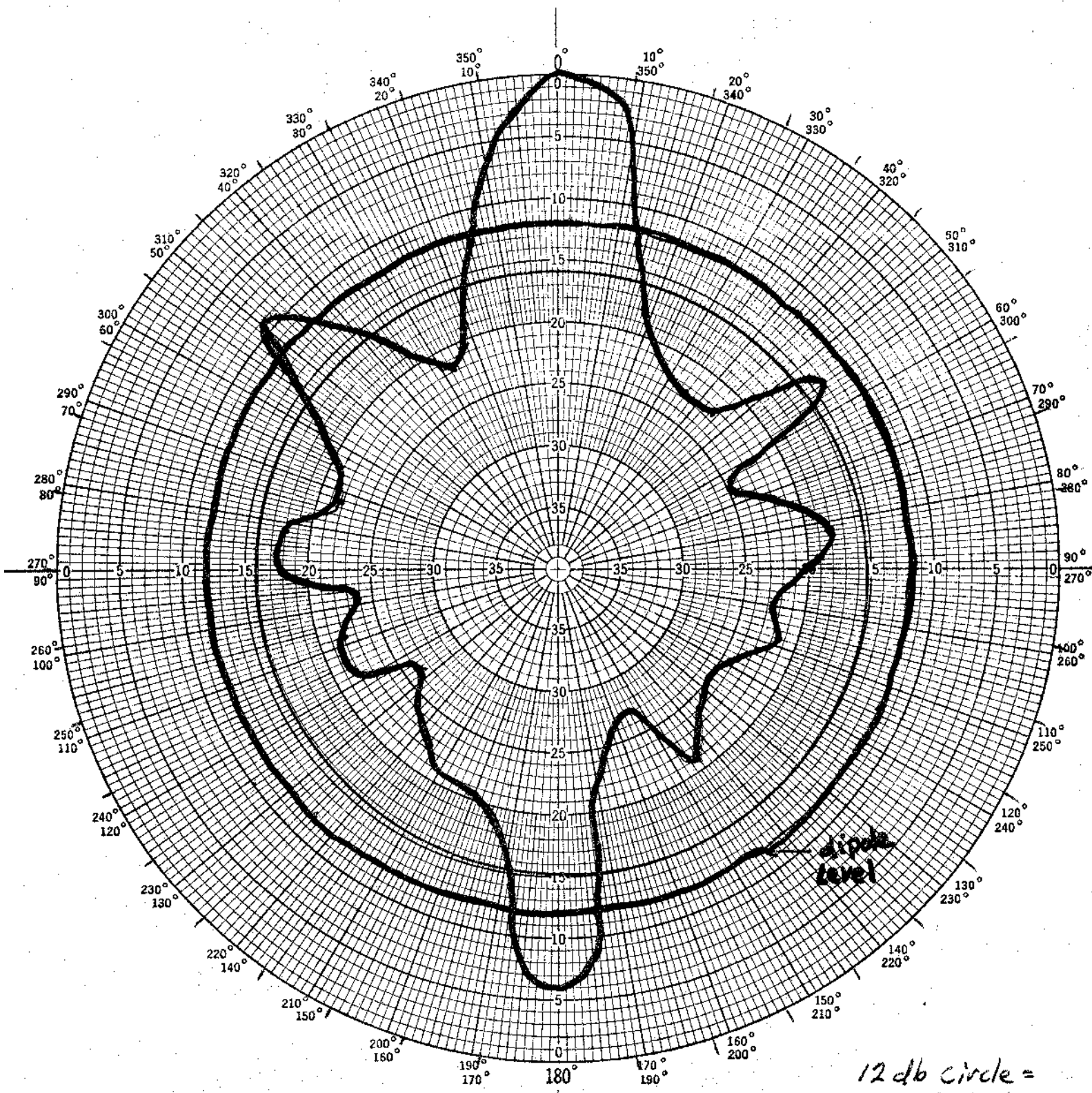
2mtr. beam in
position for measuring
K3's EOD, JJZ, IPM,
GAS and UJD (that's
Ivyland you know) below



K3GAS holding 1296 collinear
"with much feedline"
K3JJZ assisting

Photos By
WA2K01

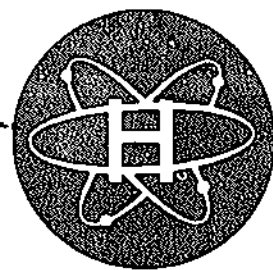
K3IUV 1296 Rhombic



12 db circle =
gain of dipole

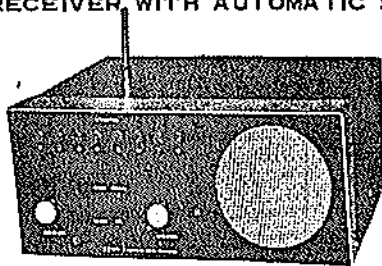
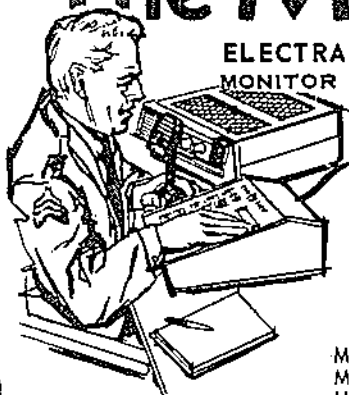
HAMTRONICS'

HAM-BITS



The Monitor Post

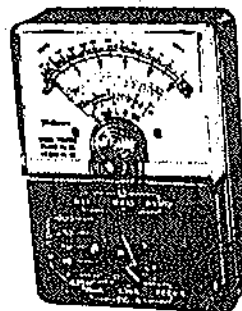
ELECTRA CORPORATION - THE BEARCAT
MONITOR RECEIVER WITH AUTOMATIC SCANNING.



Model BCH-150-174 MC.
Model BCL-30-50 MC.
Model BCU-450-470 MC
Crystals for above units

\$49⁹⁵

Receiver is unique in concept and design. The feature which makes it different is the automatic scan and manual channel select facility. It has the ability to sample 8 fixed frequency channels, lock on to the first channel which becomes active and continues to scan when the carrier is discontinued. The scanner may be disabled and the channel selected manually when desired.



HOW
ABOUT
THIS

3.95

ECONOMY 1000 OHM PER VOLT
VEST POCKET MULTIMETER

AC Volts: 0-10-50-250-1000
DC Volts: 0-10-50-250-1000
DC Current: 0-100 DC MA
Ohms: 0-150 K (3000
ohms center)

The NEW
TYMETER®

"Time at a Glance"

24
HOUR
CLOCK

#100-24H1/4

\$15

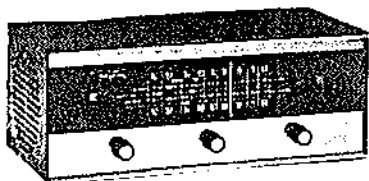
Walnut or ebony plas-
tic case. 14" x 7 3/4"
D4". 3 lbs. 110V 60
cy. A.C. Guaranteed
1 year.



Regency

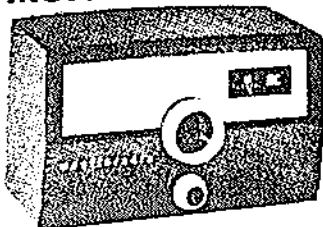
* EVERY MODEL IN STOCK *

MONITORADIO RECEIVERS



MR-33

\$94.95



PR-155B

\$ 69.95

EL71400

SK75300

OPEN EVENINGS

MON.

THURS.

FRI.

9 AM

TIL

9 PM

TUES. WED. SAT. 9AM TIL 6PM



SEASONS GREETINGS



to the

Pack Rats

THE HAMPTON COLLIES - W3CJU

W3GEW AND FAMILY
SID, EDITH, GIL AND BETTE

DR. CARL A. RILLING AND FAMILY
(OM OF W3JHIT)

BEST WISHES TO ALL
W3CND AND THE CANDY FAMILY

MOTHER RAT, FRANKIE - W3SAO -
AND JR OP PFC HARRY

K3GAS - DOC CUTLER

FROM THE STAFF OF CHEESE BITS
K3GAS - K3JJZ - WA2KOI - K3MXM
and all the guys who put the paper
together every month at Doc's place

W3BK - 73's - GEORGE

morton d. mazer WA3EPS
REAL ESTATE

1609 E. WADSWORTH AVENUE
PHILADELPHIA, PENNA. 19103
(215) CH 8-1682



PHONE: 662-6114

BARRACKS TRADING POST

Camping - Electronics
Canvas

RT. 38 at RUDDEROW AVE., MAPLE SHADE, N.J.

HARVEY PRIMOST

K3MXM

JE 3-4660
4651

LEE A. COHEN

CLAYTON L. HADY & SON
INCORPORATED
4527-31 HEDGE STREET
PHILADELPHIA, PA. 19124
WIPING RAGS
POLISHING CLOTHS
COTTON & WOOLEN WASTE

LOcust 7-7130

K3KTY

TRANSPORT EQUIPMENT COMPANY
"Everything for the Truck"

JOHN A. TATE
HOME PHONE, DR 3-8840
2218-2217 RACE STREET
PHILADELPHIA, PA. 19103

YOUR BUSINESS CARD AD RUN HERE

ONLY \$1.00 PER MONTH

CONTACT:

K3MXM, LEE COHEN
8242 BROOKSIDE AVE.
PHILA., PA. 19117
215 - 635-4942

449-2300

KASS ELECTRONICS DISTRIBUTORS



DISTRIBUTORS OF
RADIO - TELEVISION PRODUCTS
INDUSTRIAL ELECTRONIC PARTS & EQUIPMENT
2502 TOWNSHIP LINE ROAD
(WEST OF LANSDOWNE AVE.)
DREXEL HILL, PA. 19026

K3WGK



DON COOPER
Cooper-Clement Associates
836 Glenside Ave.
Wyncote, Pennsylvania
Code 215-548-5450

PIONEER 4-2626 - 27

WA3JSR - BEN

G & G Metal Products

STEEL FABRICATION - FORMING AND STAMPING
SPOT WELDING - ARC WELDING

B. GINSBERG

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PHILADELPHIA 24, PA.



A. G. RADIO PARTS CO.

739 TOWNSHIP LINE, ELKINS PARK, PA.

W3BHR

2875

TU 6-5108

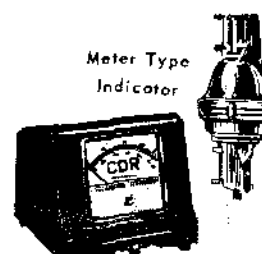
Pack Rat Cheese Bits
8533 Algon St.
Phila. Pa., 19152

-14-

W3KKN, Ernest Kenas
2823 Old Welsh Rd.
Willow Grove, Pa. 19090



MEETING NOTICE

"HAM" BUERGER'S Festival of Values		"HAM" BUERGER, INC. 80 N. YORK ROAD WILLOW GROVE, PA. 19090 OL 9-5900																									
 6146B NATIONALLY KNOWN BRAND 3.99	 RG8 Permafoam LOW LOSS COAXIAL CABLE 100 Ft. 11.88	 5 FOR \$2 Co-4x Connectors 831SP 831R																									
 SILICON DIODE RECTIFIER .89 1000 VOLTS PIV 2 Amperes	Meter Type Indicator  (CORNELL-DUBILIER) ANTENNA ROTATORS HAM-M ANTENNA ROTATOR 99.																										
STORE HOURS <table border="1"> <tr> <td>MON.</td> <td>9.30</td> <td>-</td> <td>5.30</td> </tr> <tr> <td>TUE.</td> <td>9.30</td> <td>-</td> <td>1.30</td> </tr> <tr> <td>WED.</td> <td>9.30</td> <td>-</td> <td>9.00</td> </tr> <tr> <td>THU.</td> <td>9.30</td> <td>-</td> <td>1.30</td> </tr> <tr> <td>FRI.</td> <td>9.30</td> <td>-</td> <td>5.30</td> </tr> <tr> <td>SAT.</td> <td>9.30</td> <td>-</td> <td>5.30</td> </tr> </table>				MON.	9.30	-	5.30	TUE.	9.30	-	1.30	WED.	9.30	-	9.00	THU.	9.30	-	1.30	FRI.	9.30	-	5.30	SAT.	9.30	-	5.30
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