

PACK RATS'

CHEESE

BITS



CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

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 V

JANUARY, 1972

NUMBER 1

THE PREZ SEZ

Well, gang, here it is the first Prez Sez message of 1972, and I'm sure we will have another active "Pack Rat" year coming up!

As I write this message a little over three weeks before the January Contest, the CQ's of battle will be over, the Contest will be history, but we all will still be hearing "CQ's" in our sleep, plus hetrodynes upon hetrodynes. I know that every member will have done his best totaling up the best score possible and the Club thanks you all.

For some time there has been interest within the Club to have a large scale auction or Ham Flea Market such as the type that many of us have attended in Trenton, New Jersey. Much discussion has taken place and it appears to me that with such interest shown, this would be a worthwhile endeavor. This, however, will not take the place of our annual Family Picnic, but will fill a gap as a complete general "Ham" get together and auction. By the time you read this article, a chairman and his committee will have already been selected. Their job will be to work out the details, such as the date, location for an available place, rent and a hundred other things. It will be another large undertaking for our Club, and I have faith that we will have complete member cooperation. If this all works out, gang, we will have added another Ham activity to our already splendid record.

Good luck, good Haming on this New Year of 1972!

W3CJU, Don

②

DEADLINE FOR ARTICLES IS THE GENERAL
MEMBERSHIP MEETING.

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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	-	9:00 P.M.
432.03	-	9:30 P.M.
1296.1	-	10:00 P.M.

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with other publications and
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CHEESE BITS may be reprinted,
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the proper credit is given.

Did you know that W3JSD, John
Houser is in Holy Redeemer Hospital
Meadowbrook, Pa. Rm. 227

K3KTY, John Tate is out of
the hospital and 20 lbs. lighter.

The contest speech given by
W3SAO, Frankie Brick at the last
meeting was taped by K3IUUV, Bert
Soltoff.

The editor will report the
results of last month's question-
naire in the next issue. If you
haven't sent it in, please do so!

SWAP SHOP

CONDUCTED BY: W3ZRR, Ray Whitehead
7329 Shelborne Street
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2 Model 15 teletype 30 or 40
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1 Gonset Comm. II, 2 meters

PRICE: \$15.00

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CONTACT: K3MPZ, Ralph Hairsine
1408 Wedgewood Road
Wilmington, Delaware
1-302-994-6878

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General radio analyzer, noise with
mike, pickup. make offer.

CONTACT:

Gordon Craxton, GR 4-1992

FOR SALE:

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CONTACT:

W3CJU, Don Hampton
500 E. Court Street
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crystal calibrator; like new
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1 Hammarlund HQ-110
receiver
Price: \$110.00

1 Hammarlund HX-50 SSB
transmitter all bands with full
coverage on 10 meters.
Price: \$160.00

Wanted: 2 meter FM equipment

CONTACT:

W3IXL, Ellis Hersh
4-d Brookside Drive
Lansdale, Pa. 19446
1-368-5759

FOR SALE:

1 NC 300 Rcvr W calib.
& Speaker;
1 SX 43 W R-48 speaker;
1 300 W CW transmitter
80-10 M;
1 Assorted junk box -
make offer on any or all.

CONTACT:

WA3IOX, Bob Morein
1570 Karan Way
Dresher, Pa. 19025
215-MI 6-8266 on weekends
only.

NEW PRODUCTS OF INTEREST TO HAMS

BY LYN, W3NSI

1. Monitor-Match 5M - Newtronics Corp.
The Hustler Monitor Match, when used with the regular car antenna, accomplishes the functions of five antennæ through electronic isolation and impedance matching. Separate outputs are provided for AM BC band, 26-50 Mc, 140-175 Mc, and 300-500 Mc. Jacks used are the Motorola Type. For receiving only. Price \$12.95
15800 Commerce Park Drive, Brook Park, Ohio
2. Avcom Inc. Two Meter FM Transmitter Module.
The FM 201 solid state 2 M transmitter unit is complete, needing only a mic. 12-16 VDC and a crystal to go on the air. One watt DC provides enough output to drive an external amplifier also available from Avcom, or the module can be used in a miniature handee-talkee unit. The amplifier LM 210 has an output up to 10 watts. Price FM 201 transmitter \$50.00; Amplifier \$30.00
P.O. Box 29153 Columbus, Ohio 43229
3. Motor Brake Switch - Ambi-Tech Ind. Inc.
Designed for home workshop use, this unit could find use in beam rotator or tilting motors. It can stop the motor as quickly as it starts, using a three position toggle switch. This switch is marked On-Off-Brake, with the Brake position a spring return operation. Unit is a small box, which plugs into the line and the motor then plugs into the control box. Price \$20.00
861 Washington Avenue, Westwood, New Jersey 07675

* * * * *

2 Meter Report
Joe, W2EIF

The 2 meter band was very good up to November 15th. Activity dropped off at that time due to the onset of winter conditions and holiday duties of various operators. The northeast VHF Assoc., meets each Sunday nite at 8:00 P.M. on 144.120. They also listen on 145.120 for checkins. If you want to belong to the group and receive their news letter, send \$1.00 to KLABR with your name and address. The meteor shower December 10-14 was a bit disappointing, however, K2RTH on Long Island did work K9HMB in Chicago on 220 MHZ. He was also hearing K4IFL in Florida.

* * * * *

DE XMITTER PENN WIRELESS

A dirty, unkempt bearded hippie came into the bar carrying a duck under his arm. A nearby drunk said, "shay, where did you get that pig?" The hippie said, "Why, that's a duck". The drunk indignently retorted, "I beg your pardon, but I was talking to the duck."

CALANDER OF COMING EVENTS
Syllabus by Lee, K3MXM

JANUARY:

- 12 Board of Director's Meeting
- 16 General Club Meeting - West Oak Lane Jewish Community Center, Thouron and Sedgwick Streets, Phila., Pa.
8:00 P.M.
The Famous Crying Towel Session.
Be sure to bring an extra handkerchief for those tears of sadness and laughter at the mishaps of the other guy. See how many came down or were attacked by a bad case of Murphy's Law. The only known medical remedy is the crying towel so be sure to attend the meeting and be purged for another year.
- OPEN MEETING VISITORS ALWAYS WELCOME!

FEBRUARY:

- 9 Board of Director's Meeting
- 16 General Club Meeting - HOME BREW NITE
Catagories:
1. Most Unique Project
2. Outstanding surplus project
3. Solid state project
4. Measuring devises
5. Most ambitious project

Addendum:

Materials and items are needed for Mario's auction. A few club member's junk boxes have been supporting this endeavor, and they are starting to hit bottom, so we appeal to all of you--join the club of one-one item once a year--that's all. Just give your item to Mario at the next club meeting and we all say thank you!

DE MIDLAND ARS -- CHEMICAL ANALYSIS OF WOMEN

Thought to be a member of the human race. Acdepted at 120 lbs. though known isotopes vary from 80 lbs. upwards.

Seldom found in natural state. Surface usually coated with solution of paint. Low boiling point and freezing temperature varies. Is highly explosive and dangerous except in qualified hands. Extremely active when in the vicinity of opposite members of species. Chiefly ornamental, probably the most powerful seducing agent known. It is illegal to own more than one specimen although a certain amount of exchange is permissible.
ANON.

CHANNEL 13 3/4

By: Paul Rilling -- WA3HIT/WA3OSS

Beginning with this issue of Cheese Bits, Channel 13 3/4 will become a column about ATV activities at 439.25 MHZ. It will appear on an irregular basis pending newsworthy events of this frequency.

1. UPDATED DIRECTORY FOR ATV

Since the first publication of this column in October, 1971, Cheese Bits many hams have now become interested in fast scan TV. The following is an updated list of hams who are (or planning to come) on 439.25 MHZ with ATV.

<u>PHILADELPHIA</u>	<u>PENNSYLVANIA</u>	<u>NEW JERSEY</u>
K3DLS-TV	WA3AXV-TV, Churchville	K3SVX-TV, Cinniminson
W3AEH-TV	K3ZFO-TV, Croydon	WA2GIW-TV, Oaklyn
K3GAS-TV	W3CJU-TV, Doylestown	K2KVT-TV, New Brunswick
K3IHA-TV ¹	W3EFG-TV, Exton	WA2RIH-TV, Toms River
WA3MPO-TV	WA3NFV-TV, Holland	K2OJL-TV, Trenton
WA3NYZ-TV	K3IUV-TV, Huntingdon Valley	WA2EMC-TV, West Milford
K3WJB-TV	K3UJD-TV, Ivyland	WA2TQI-TV, Westville
K3ZKO-TV	W3HKZ-TV, Lafayette Hills	
	K3KFL-TV, Newtown Square	
1-Transmits in	W3NWJ-TV, Norristown	
color	K3FEN-TV, Richboro	

2. WA3HIT ANTENNA PARTY

The party, originally scheduled for October 31st was postponed to November 6th due to bad weather. November 6th was a beautiful day. Only two hams (K3GAS and K3OBY) showed up. They started on the antenna, a 432 YAG1 at 11:00 A.M. and were finished at 3:30 P.M. There were some minor problems, but all were quickly solved. One major problem occurred: how to get the lead of the 432 antenna into my QTH? Eventually, it was solved, but not until we had to discard plans A, B, C, D, E, and F. After a job well done, soup, sandwiches, gingerale and coffee were served. At this point, Ron, K3ZKO gave us a land-line call. He had just returned from assembling an air-force Mars tower. He got on TV and the final test was made. The 432 beam worked. (Since then, I can copy other ATV stations also.) Jim and Doc each received a quart of royal cheese soup for their help in putting up the 432 beam. Thanks fellows!

3. WHERE TO SEND INFORMATION

If you have information or news items or comments pertaining to this column, or ATV in general, send them to WA3HIT, Paul J. Rilling, 5750 Rising Sun Ave., Phila., Pa. 19120 Hope to hear from you.

BCNU,

HAM-M ROTOR CONTROL BOX MODIFICATIONS SUGGESTIONS
REPORTED BY JACK POWER, W2AXU

There are two modifications that can be made to the HAM-M rotor control box that improves its usefulness. These are as follows:

1. The continuous indication of the position of the antenna by the meter.
2. The instantaneous calibration of the meter without rotating the antenna to its full scale stop position.

The instrument voltage supply should have been stabilized by a zener diode when you first put the rotor into operation. This is accomplished by installing a 220 Ohm resistor in series with the plus line of the instrument voltage supply following the filter and an 18 volt zener diode from the plus side to the common side of the supply. A 100 microfarad, 50 volt capacitor should replace the existing 30 microfarad 50 volt capacitor. This change was described by K3IUV sometime ago and is shown in Circuit 1.

The continuous meter indication and the instant meter calibration modifications are both described in the HAM-M Rotor Owner's Manual. The continuous meter indication is a very simple change and is accomplished by placing a jumper between terminals 7 and 8 of the operating switch as shown in Circuit 1.

The instant meter calibration is a bit more complicated and is not completely explained in the manual because they have a kit to sell to do the job. It requires two 3/8 inch holes in the case to mount a potentiometer and a rotary switch. The location of the two holes in the front of the case is the most difficult part of the modification. The holes are already provided in the metal front panel. These are used as a guide to locate the holes in the plastic case.

The type of switch used requires a decision on your part. If you wish to control the AC voltage to your control box, a two pole three position rotary switch will be required, otherwise a single pole two position switch will suffice.

The potentiometer I used is 5000 Ohms and is mounted in the left hand hole. A lower resistance potentiometer may be satisfactory. However, I didn't try one. I had the 5K handy and it was satisfactory. Try what you have. The rotary switch is mounted in the right hand hole.

The wiring is simple but first familiarize yourself with the wiring of the control box so you will know where you are. It's like studying a road map before taking a trip. The arm of the 5000 Ohm potentiometer is connected

Continued on Page 8

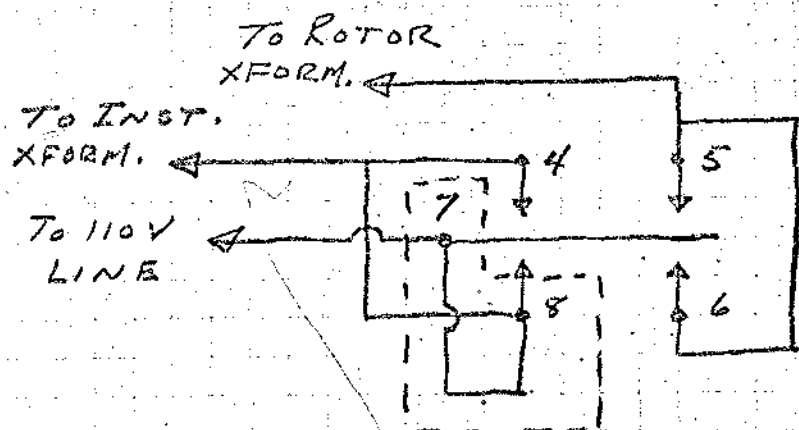
HAM-M ROTOR CONTROL BOX MODIFICATIONS SUGGESTIONS
CONTINUED FROM PAGE 7

to the common side of the instrument voltage supply. Terminal 7. One of the outer fixed terminals of the potentiometer is connected to one of the fixed terminals of the switch. Find the lead that connects Terminal 1 to ground and remove it from ground. Run a lead from Terminal 1 to the other fixed terminal of the switch. The arm is grounded or connected to the junction of the 5000 Ohm "COMPENSATION" potentiometer (mounted on the metal chassis) and the 20,000 Ohm resistor. The wiring is shown in Circuit 2. If the AC is to be switched, the other arm and two fixed contacts of the two pole, three position switch are used. Be sure to get the rotation sequence in the right order -- switch to right, OFF, center position, NORMAL and left position, CALIBRATE. This completes these modifications.

The control box can now be reconnected to the control cable and turned on. Rotate the unit to its full scale stop position and adjust the CALIBRATION control on the back of the box so that the meter is reading the exact full scale. Now turn the switch to its instant calibrate position and adjust the new 5000 Ohm potentiometer on the front panel so that the meter is reading full scale. From now on whenever you wish to assure yourself that your meter is indicating the correct direction of your antenna, you will not have to rotate the rotor to its full scale stop position. Just turn the switch.

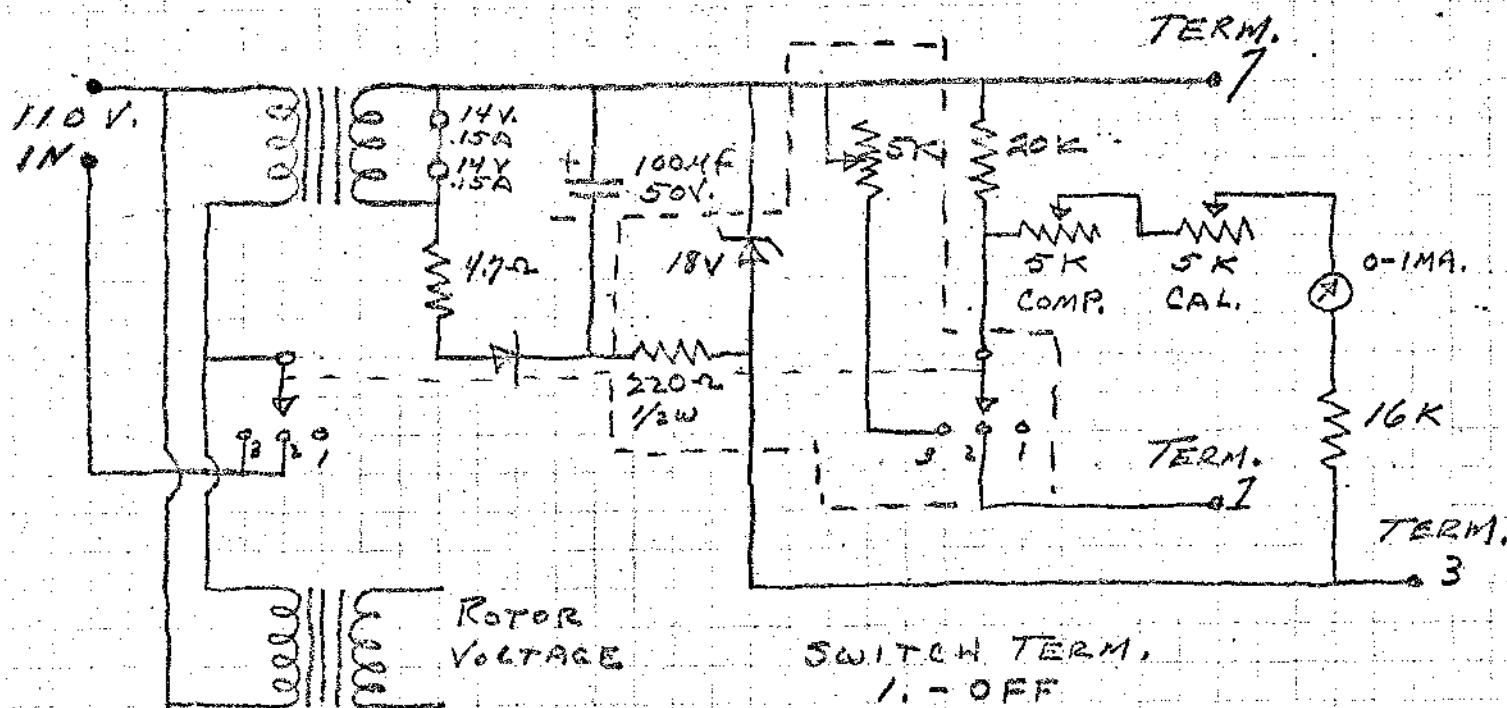
The modified circuits are shown as Circuits 1 and 2.

*** HAM-M CONTROL BOX MODIFICATIONS PG 9



CIRCUIT 1

CONTINUOUS INDICATION CIRCUIT



CIRCUIT 2

- SWITCH TERM.
- 1. - OFF
 - 2. - NORM.
 - 3. - CAL.

INSTANT CALIBRATION AND VOLTAGE STABILIZATION CIRCUIT

5/12/71
J. B. POWER
W2AXU

FROM THE BOOK RACK
de Paul R. Behrmann, K3WEU/AREA*

Title: ABC'S OF INTEGRATED CIRCUITS
Author: Rufus P. Turner
Publisher: Howard W. Sams & Co. #20823
Price: \$2.95, softbound
96 pages, 5 1/2" x 8 1/2"

The trend to miniaturization in electronics received a tremendous boost with the development of the integrated circuits, or IC, as it is commonly called. It offers on a single, tiny, semiconductor wafer an entire circuit which could include such components as diodes, resistors, capacitors, and necessary internal wiring. Along with these advantages, there are the added benefits of increased reliability and performance. This book is intended to serve as an elementary introduction to the IC, its construction, behavior, and uses. Theory and mathematics have been purposely kept at a minimum; instead, the approach is descriptive and practical.

The fundamentals of integrated circuits are discussed in the first chapter. This includes such topics as amplification, gain, input, impedance, frequency response, noise figure, power output, supply current, supply voltage, and temperature effects. Remaining chapters cover IC applications in amplifiers, oscillators, control circuits, communications, and test instruments. The final chapter includes a few supplementary applications of a mathematical nature, such as integrators, adders, and subtractors.

Students, hobbyists, and others with some knowledge of transistors and similar semiconductor devices will find ABC'S OF INTEGRATED CIRCUITS ideal for getting acquainted with that newest member of the semiconductor family, the integrated circuit.

* Director Amateur Radio Editors Association



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MEMBERSHIP ONLY

EDITOR CHEESE BITS

Seems like we have two chickens, one on each side of the fence, OWHN who ask questions like a grammar school kid and no answers or suggestions, and the OLD GROUCH who agrees with both sides. The only real guy we have is the Editor who signs his name. I'm with the editor and I'll sign my name. OWHN says activity is down, I wonder if he is on. Who could tell he has to use his call on the air! The lack of club project interest only shows how our club is really cosmopolitan. No project will interest all members. The club asked for suggestions and is responding to the majority not just one OB. As for our paper, it serves its purpose well; far better to have two good article than a dozen written just to fill pages. If you think writing an article is so easy, write one each month. As for our financial status I guess OWHN is one of those talkers in the back of the room for he didn't hear why the dues had to be raised. Also, the end of the calander year is not the time to look at our treasury. It is better to have a balance than a deficit. I wonder how much OWHN would cough up if the club did need money. As for the June QSO party being 5th isn't wrong, it just isn't our best effort. OWHN admits he wasn't there, I wonder why. As for the clique business, Webster also describes a clique as a group gathered together for a common interest; isn't that our club? Now because a few volunteer and work hard, does that make them a clique to the detriment of the club? As for churchills comments I'm sure he was thinking of constructive criticism. OWHN you remind me of the guy that stand on the side lines and says "Lets you and him fight". A suggestion to both OWHN and Grouch, be a leader and set an example for the rest to follow (If you can).

W3HK

FROM THE HUNTINGDON VALLEY OBSERVER AND (OUR OWN W3HK)

"HAM" RADIO MESSAGES MADE AVAILABLE BY LOCAL OPERATORS

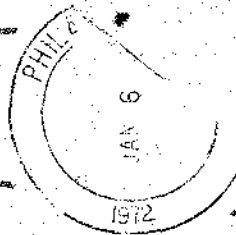
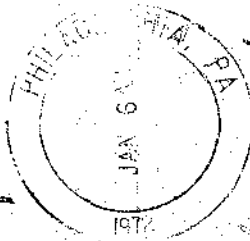
Philadelphia will again this year make available a "ham" radio message center in City Hall Courtyard where Christmas and Chanukah greetings may be sent to servicemen and women anywhere in the U.S., and overseas by radio operators from now through December 23.

Messages will be transmitted by radio operators who are members of the Amateur Radio Public Service Corps of Philadelphia County and the First U.S. Army MARS (Military Affiliate Radio System).

The following "ham" operators in the Philadelphia area have agreed to accept messages by telephone: Lt. Col. George S. Van Dyke, Jr., coordinator of the service, at NE 7-8329; Mrs. Harry Creighton, OR 3-4979; Joseph Monahan, 946-5915; Robby Reichman, MO 7-0613; and Mrs. Rhoden Walls, MA 6-3641.

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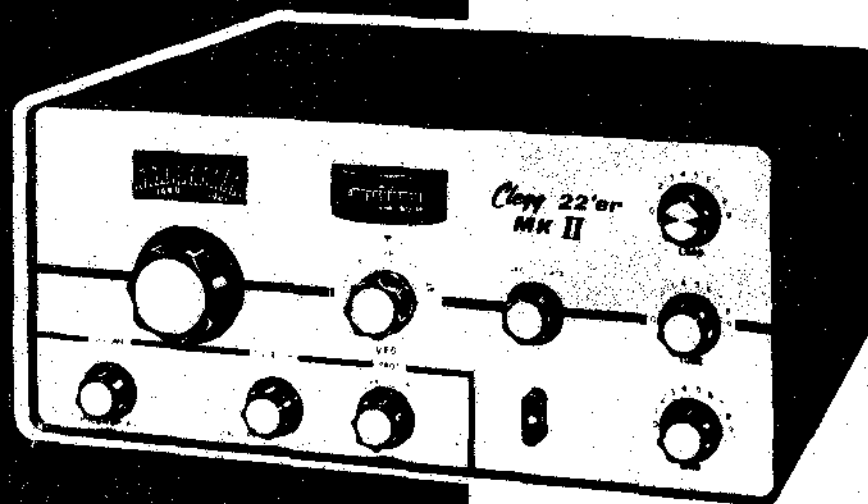
- 14 -



W3FQD Dick Huntzinger
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