HAM HUM

June 1962

Vol. XII
No. 6

MAY MEETING

Our May meeting was most interesting and our thanks go to Ken McCord, J. A. Rogers and H. W. Becker for making it so.

Ken McCord gave us the story of computers as they are now and a history of the development of computers and did a most excellent job with a very complicated subject. Of particular interest in the history of computers is the gradual change of one of getting more complicated to one of getting easier to operate. In their development it began to look as if one had to have an engineering degree from Iowa State in order to operate a computer. The manufacturers realizing this began to develop machines which can be operated by ordinary people. This resulted in the change of the sales techniques from one of selling "hardware" of the machines themselves to one of selling "software." Software being the work done and the ease of getting this work done.

J. A. Rogers gave us the history of the ups and downs in the Westinghouse Elevator business, particularly in regard to the servicing of these vehicles that go nowhere and an explanation of the automatic systems now in current use. The elevator business is another business where they sell software in that if the thing is working right we don't notice it and little do we realize the behind the scenes effort put into devices of this sort to keep them working to a point they will not be noticed but will get you from here to there - up and down, that is - with a minimum of disturbance.

H. W. Becker gave us the story of IRE, the Institute of Radio Engineers. The Omaha-Lincoln Chapter is one of the important chapters of this organization and do have some very interesting programs throughout the year to which our members are invited.

Our thanks go to these three fellows for a very interesting evening and to Ed Gutmann, WØCQX, program chairman.

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FOR SALE

20-meter Mosley Minibeam and Telrex Rotator - $55.

Larry Schumacher, KØSJD
451-4725

****

WRL Comet All Band vertical. New - $10.00.

Bob Burt, KØDBU
8109 Grant St.
391-4949

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1962 NATIONAL ARRL CONVENTION

By now you know, Portland, Oregon, will host the ARRL National Convention, September 1 to 3.

In order to get in on the ground floor we suggest early reservation for hotel or motel accommodations. Reservation cards are enclosed. These are to be used in making immediate confirmation of attendance. Please indicate preference. These should be returned with check as deposit to hold same. Indicate kind of reservation desired, number in each individual party - single, double or more. (Ed. Note: Secretary has cards.)

The convention program will be an outstanding one. Already signed as a speaker, will be Admiral Roeder, Director of Naval Communications, United States Navy. There will be much to hear and see.

Exhibits of unusual character. Entertainment and other worthwhile features. There will be prizes galore.

Pre registration fee is:

Hams	$4.75
Non Hams	$2.75

These fees good until July 15. Registration ticket admits holder to exhibits, meetings and dance, MEALS EXTRA.

Don't procrastinate. Hurry with your registration and you will be ahead.

All registrations and reservations will be acknowledged. Tickets will be mailed.

73,
E.C.E. (Ernie) Austin
Registration Chairman

****

FOR SALE

Dear Sirs:

I have recently constructed a base load 75 MTR mobile antenna coil which cost a total of $1.26 and performs as good if not better than commercial models. The coil was wound on a 3 lb. shortening can, which was removed later. We found 25 turns of number 12 insulated copper wire to be resonant at 3900 kilocycles using a field strength meter. (The removal of one turn increases the resonant frequency about 100 kcs.) I also have a SX-100, 10 in. spkr, AT-3 tuner, Heath SWR bridge, PR trap doublet coils, and 10 MTR GND plane I would like to sell. Thank you.

Frank Brodale - KØKGO
708 1st Ave., So.
Humboldt, Iowa

P.S. - All replies will be answered.

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PREXY SEZ—

By Royal Enders, KØLYO,
1962 Club President

CQ CQ DE KØLYO BT

Soo-Land Hams have challenged Ak-Sar-Ben Radio Club, Inc.! The Sioux City Amateur Radio Society has so much confidence in the operating skills of its members that they are sharing in the cost of a handsome trophy which will be awarded to whichever club has the highest legal point count during the 1962 ARRL Field Day Operation.

Needless to say, Ak-Sar-Ben Club has accepted the challenge, and is contributing to the cost of the trophy.

Glen Swanson, KOJQX (Swanny) is General Chairman of our Field Day Operation, and he has selected the site. We will operate from the farm of Bob Gamble, KOJBS, located on the river bluffs just 3 miles north of Gretna, Nebraska. Elsewhere in this issue is a map showing the location of the Ak-Sar-Ben Radio Club, Inc. Field Day Operation.

Swanny's plans include the operation of 4 transmitters on low power (30 watts or less) in order to get the highest possible message multipliers; all operations will be powered by portable generator systems, again for the purpose of the highest multipliers. He is having the Club tent and other Field Day equipment put into the best possible condition. If it is cool and rainy, we will be warm and comfortable; if it is hot and dry, we will be cool and comfortable. A cook shack will provide food and refreshments for not only the actual participants, but also for the OM, YL, XYL, Jr. Ops, and the observers. This phase of the operation will be on the basis of "Feed-The-Kitty," to take care of the costs of food and liquid refreshments. Come out and see the Field Day Operation!

Swanny needs HF and VHF operators and loggers; helpers to erect tents and antennae, and to transport equipment and material. Please volunteer by calling one of the following:

Chairman - Glen Swanson, KØJQX, 556-8140
Vice Pres. - Joe Berounsky, KØQDB, 551-0647
Ye Sec'y. - Lou Cutler, WØVLI, 455-7143
Prexy - Royal Enders, KØLYO, 391-2681
Board - John Snyder, WØWRT, 556-1538

Let's get behind our Chairman and help him lick the pants plum off the good Hams of Soo-Land.

1962 ARRL FIELD DAY - 23 JUNE, 1500 Hours CST to 24 JUNE, 1500 Hours CST

All participating Operators must have on their person their FCC ticket or a photostatic copy. This is very important, and if you don't have a copy please see Royal or Dick Eilers before June 18.

Our thanks, both Club and personal, to John Snyder, WØWRT, for his fine work in putting the Club PA System into proper operating condition. This will help make the Club membership meetings of more interest to all and will help prevent the past QRM from the individual QSO's on the back row seats. Did you notice that the club room at Ak-Sar-Ben Field was air-conditioned? Don't you wish YOU had been there?

TRANSMITTER HUNT coming up soon! Ham Hum will publish some articles on Directional Loops which may help you build your "Finder," and maybe you'll win a prize.

A new column will soon appear to be known as "MARS NEWS." Many Mars activities are very interesting to all Hams, and the new column will pass along much good information. MARS operation "VHF Leap-Frog" recently carried 2 meter traffic from Northeastern Iowa to Grand Island in less time than 6 meters carried the same traffic to Linwood, Nebraska. This is a challenge to serious-minded 6 meter peopl MARS News can help dedicated amateurs to better traffic handling and more technical knowledge.

The American Amateur Radio League sponsored, participated in, and made possible our last October's Midwest Division ARRL Convention in Omaha. The League is now raising funds for the construction of a new headquarters building in West Hartford, Connecticut. ARRL helped us build up a nice balance in the Club treasury, and now seeks our help. Your Prexy has already made a cash donation for this purpose to Ak-Sar-Ben Radio Club, Inc. and the Board has voted to assist in the raising of funds.

We need your personal help for this most worthy project. Won't you send whatever you can spare - $5.00, $2.50, $1.00, 50 cents, or even a quarter - to the new Club Treasurer, Ed Donze, WOYEV, 2926 South 21st Street, Omaha 8, Nebraska. ARRL represents the Amateur to our Congressmen, our Senators, the FCC, the International Radio Treaty Committee, and helps provide many of the radio privileges we now enjoy. Be sure to include your name, address and call letters. All donations w be acknowledged in Ham Hum and in QST Magazine.

BT
Sgd Royal, KØLYO

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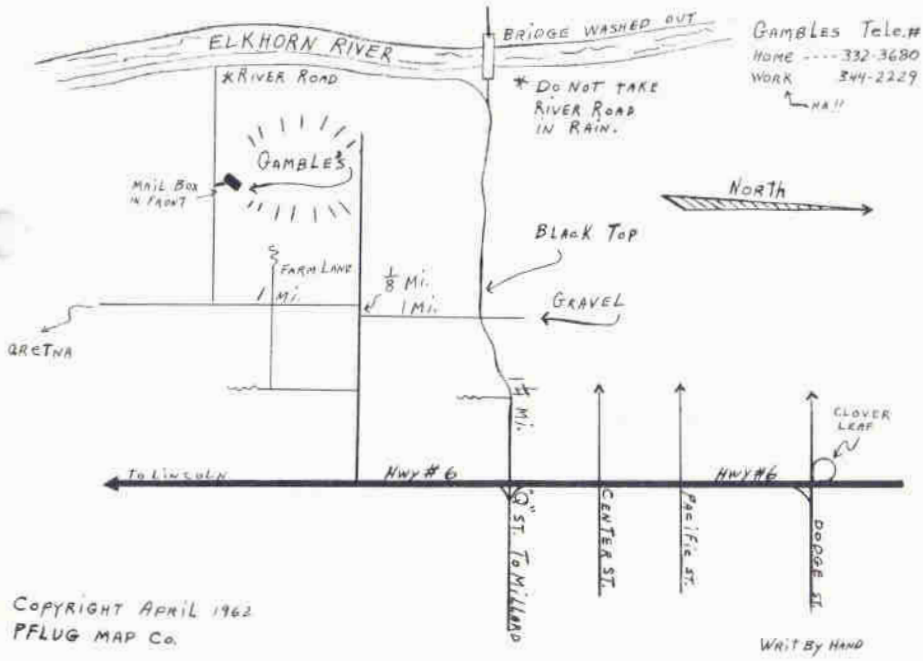

Field Day Location Map

ROSTER ADDITIONS

George R. Cherney, Jr., KØMGX
2306 "E" Street
Omaha 7, Nebraska

Fred E. Kujawa, KØETA
7605 Grover Street
Omaha 24, Nebraska

Ralph E. Erts, WØSMY
5018½ Burt Street
Omaha 32, Nebraska

Dr. E. L. MacQuiddy
3911 North 79th Street
Omaha 34, Nebraska

Richard W. Hays
4316 California Street
Omaha 31, Nebraska

Dr. Raymond G. McDonald, KØLPM
709 South 114th Street
Omaha 54, Nebraska

Larry Johnson, KØIXU
834 North 75th Street
Omaha 14, Nebraska

R. E. Veverka, WØFBB
8214 Arbor Street
Omaha 24, Nebraska

George A. Keefe, KNØWSM
5712 Marcy Street
Omaha 6, Nebraska

George E. Winkler, KØQYM
7441 Idledale Lane
Omaha 22, Nebraska

(Cont'd at top of second col. page 10)

HAVE EQUIPMENT, WILL SELL OR TRADE

1	5 Element 2 Meter Beam	$ 5.00
1	11 Element Telrex Spiralray	50.00
1	Battery Charger 60-100 Amp	60.00
1	Eico Hi-Fi Preamp	15.00
5	25 Watt Weatherproof 23" Bell Speakers	Each 25.00
1	24" GE TV Consol, good picture tube, as is	35.00
1	RDC Receiver 39-3000MC	150.00
1	Receiver (surplus) 6M	50.00
1	Receiver (surplus) 1000-3000 MC	40.00
1	Receiver (surplus) 39-2000 MC	125.00
1	PE 120 (surplus) power supply	10.00
1	Gonset Receiver G33	50.00
1	Gonset Converter 6M	45.00
1	World Radio Converter 6M	15.00
1	Car Radio-New Fits 53-54 Plymouth	35.00
1	Car Radio-New Fits 58-59 Rambler American	35.00
1	FM Transmitter-Receiver	Make Offer
1	Turner Mobile Microphone Ceramic-New	10.00
1	EV Microphone Good Used	20.00
2	6M Handle-Talkies PCR6 (surplus)	Each 45.00

WANTED

TCS Transmitter & Receiver
Jefferson-Travis 350 DR 350A & D.S.
RDA Receiver

Cecil DeWitt, WØRMB
5124 Jackson Street
Omaha 6, Nebraska
556-4619

****

I would like the Ham Hum sent to me. I've read the April Ham Hum I got from a friend.

Thank you in advance.

73s

(Mack) William M. Ussery, K4ØWL
Rt. 1, Box 93
Rockingham, N. C.

****

FOR SALE:

AMECO CB-2 & CB-6 converter with power supply, A-1 condition. Complete $25.00.

Joe Berounsky, KOQDB
3227 Seward St.
551-0647

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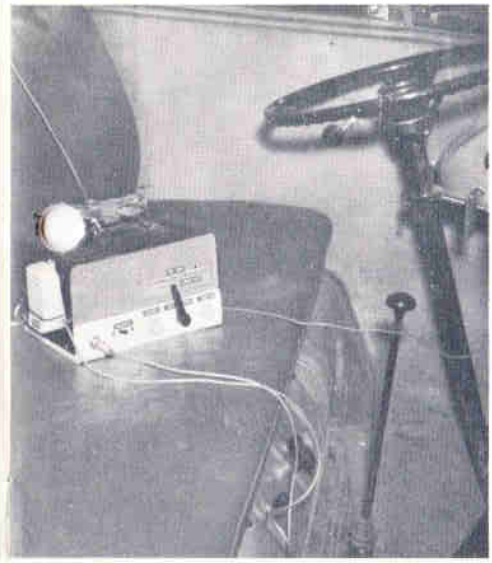
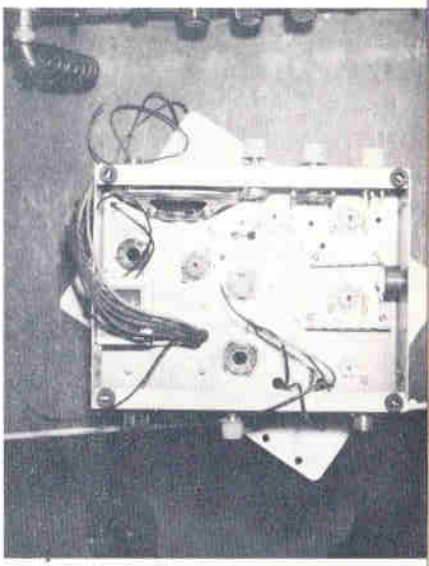




"LUCKY BOY"
From Sioux City

W.R.L. Radio
Council Bluffs
Iowa

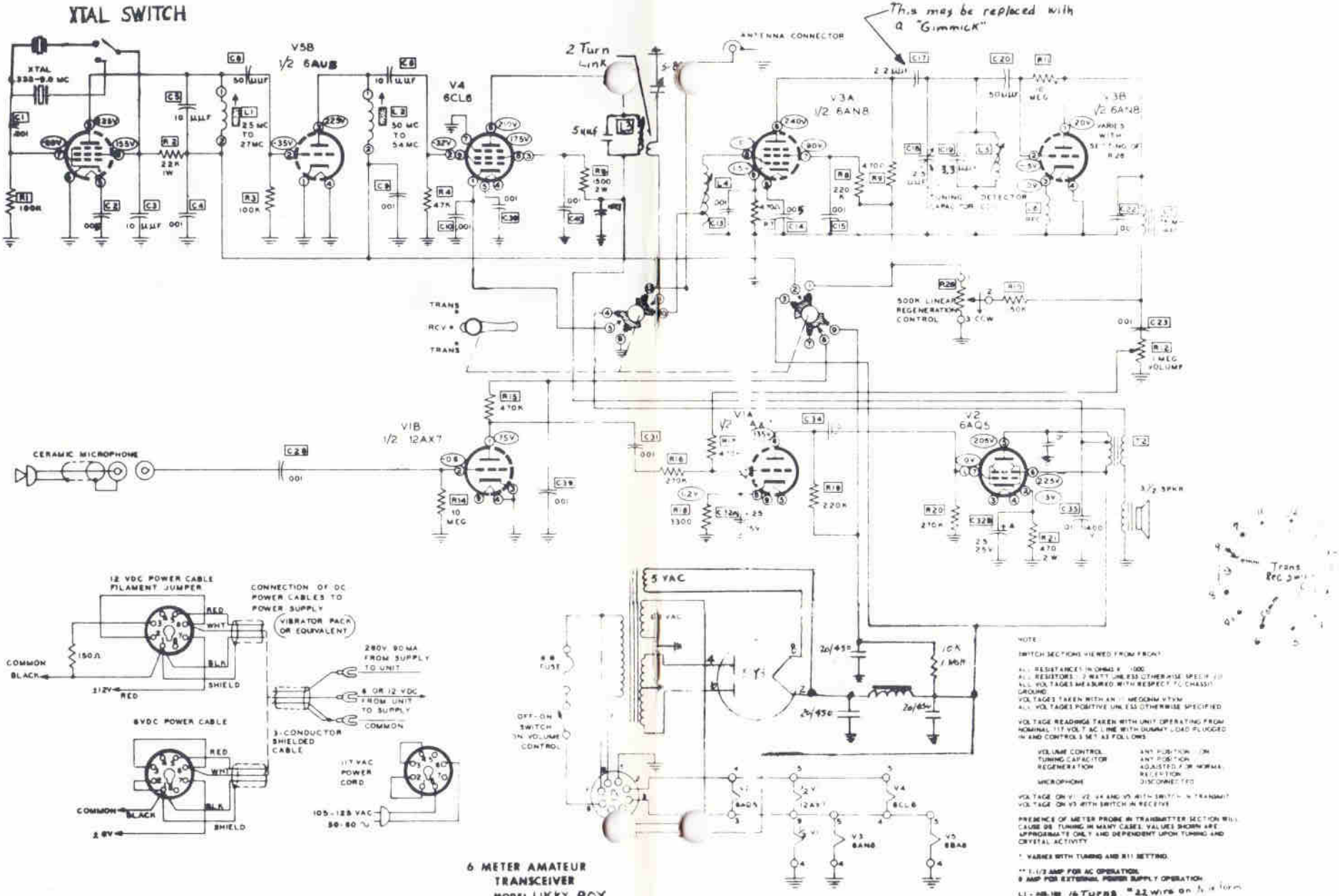
Dear Al:

Enclosed is a circuit modified to change W.R.L. ECBK kit to a 6 meter transceiver.

You will notice that this has been rebuilt to a Heath circuit with some minor changes. It isn't difficult to do, as nearly all the parts are useable, depending upon the supplier, it takes about $7 more to modify it as shown in the schematic and photo. The cabinet design didn't appeal to me so some metal work was done. The speaker was recessed about 1 inch and the front panel was cut down one inch and the back of the top was cut down by the same amount. The brackets for the speaker were mounted on the bottom side of the chassis. Other metal work was the addition of a mic connector and a crystal selector switch on the front. The back apron of the chassis was equipped with an 8 pin male plug for A.C. input or for an external D.C. power supply.

A standard co-ax chassis fitting was used in place of the phono jack. In addition an auto antenna fitting was installed in parallel to the co-ax chassis fitting. This allows either a co-ax antenna fitting or allows a car antenna to be plugged into the unit. A car antenna is not the most efficient but will work in case of necessity.

(Diagram - next page, copy cont'd on p. 10)


XTAL SWITCH
This may be replaced with a "Gimmick"
ANTENNA CONNECTOR
2 Turn Link
V5B 1/2 6AU8
V4 6CL6
V3A 1/2 6AN8
V3B 1/2 6AN8
V1B 1/2 12AX7
V1A 1/2 12AX7
V2 6AQ5
TRANS
RCV
TRANS
500K LINEAR REGENERATION CONTROL
1 MEG VOLUME
CERAMIC MICROPHONE
12 VDC POWER CABLE FILAMENT JUMPER
CONNECTION OF DC POWER CABLES TO POWER SUPPLY
VIBRATOR PACK OR EQUIVALENT
280V 80 MA FROM SUPPLY TO UNIT
6 OR 12 VDC FROM UNIT TO SUPPLY
COMMON
3-CONDUCTOR SHIELDED CABLE
6VDC POWER CABLE
117 VAC POWER CORD
105-125 VAC 50-60 ~
5 VAC
6.3 FUSE
OFF-ON SWITCH ON VOLUME CONTROL
6 METER AMATEUR TRANSCEIVER
MODEL LUCKY BOY
Trans Rec Switch
NOTE
SWITCH SECTIONS VIEWED FROM FRONT
ALL RESISTANCES IN OHMS K = 1000
ALL RESISTORS 1/2 WATT UNLESS OTHERWISE SPECIFIED
ALL VOLTAGES MEASURED WITH RESPECT TO CHASSIS GROUND
VOLTAGES TAKEN WITH A 11 MEGOHM VTVM
ALL VOLTAGES POSITIVE UNLESS OTHERWISE SPECIFIED
VOLTAGE READINGS TAKEN WITH UNIT OPERATING FROM NOMINAL 117 VOLT AC LINE WITH DUMMY LOAD PLUGGED IN AND CONTROLS SET AS FOLLOWS
VOLUME CONTROL — ANY POSITION ON
TUNING CAPACITOR — ANY POSITION
REGENERATION — ADJUSTED FOR NORMAL RECEPTION
MICROPHONE — DISCONNECTED
VOLTAGE ON V1, V2, V4 AND V5 WITH SWITCH IN TRANSMIT
VOLTAGE ON V3 WITH SWITCH IN RECEIVE
PRESENCE OF METER PROBE IN TRANSMITTER SECTION WILL CAUSE DIP TUNING IN MANY CASES. VALUES SHOWN ARE APPROXIMATE ONLY AND DEPENDENT UPON TUNING AND CRYSTAL ACTIVITY
* VARIES WITH TUNING AND R11 SETTING
** 1-1/2 AMP FOR AC OPERATION
9 AMP FOR EXTERNAL POWER SUPPLY OPERATION
L1 - #18-1B 16 Turns #22 wire on 1/4 in form
L2 - #18-2B Remove 6 Turns
L3 - #18-3B Remove 5 Turns
L4 - #18-4B Remove 4 Turns. Make TAP Two Turns up
L5 - #18-5B Remove 8 Turns
Do Not Ground Center Tap of P.I XFMR

The circuit was modified to include a tripler and doubler circuit. The 6AU8 tube which was the original final was used as a tripler. The final was rewired for a 6CL6 tube. The crystal socket was an 8 pin octal and is mounted to the left of the tripler. This allows two crystals to be installed and switching is done by the front crystal switch.

A tripler coil (not shown) is mounted between the crystal socket and tripler tube. Conversion of the coils is given in the schematic. These units have seen hard service during the recent flood. Some of them were in 24 hour service for 5 days. The only malfunction was a broken transmitter receiver switch.

We have re-named these units "Lucky Boy" as the original instructions mentioned in a couple of places that if you are lucky the unit will work -- hence the name "Lucky Boy."

All in all I believe the boys in Sioux City have bought 24 of these units and all but two are being or have been reworked to 6 meters.

By the way, with proper tuning we are able to get 3 to 4 watts output from the transmitter.

Credit for the conversion is due to WØMHC.

Very truly yours,
M. G. Fogleman

****

FOR SALE:

Lafayette HE-45 and 5 element Hy-Gain beam.

Bob Proescholdt, WØAQA
453-0496

****

(Cont'd from page 5)

Fred Wolters, KØTWP
2703 North 47th Avenue
Omaha 4, Nebraska

ADD CALLS TO ROSTER

Robert E. Margritz, WNØBIE
Vi Margritz, WNØBID

****

Ak-Sar-Ben Radio Club
Gentlemen:

The Northeastern Nebr. Radio Club held their monthly meeting Sunday May 6th at the home of Roy McCabe, WØUVU, Fremont, Nebr. The gang wants to invite all Hams in the area to their annual picnic to be held June the tenth at the fair grounds at Stanton, Nebr. Bring your picnic lunch and the club will furnish the coffee, ice cream and pop. Lunch time at 1:30. Bring em all, kids, YL's and XYL's. Plenty of room and playground equipment with a fine swimming pool. See you. Mobiles, 3995 is the freq.

73,
WØDHO

****

OFFICIAL BULLETIN NR 846 FROM ARRL HEADQUARTERS WEST HARTFORD CONN MAY 4 1962 TO ALL RADIO AMATEURS BT

The FCC, at the request of ARRL, has published a Notice of Proposed Rule Making, Docket 14610, looking toward the removal of the 50 watt input power limit on 420-450 Mc. except in some areas of the southern U.S. Comments may be filed with FCC through June 15. Full details will be in the June issue of QST AR

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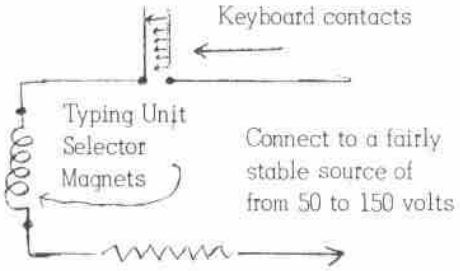
By John W. Orr, WØPHW
RTTY Editor

An interesting facet of our hobby is RTTY. It incorporates electrical and mechanical skills and knowledge. This series of articles, of which this is the second, will try to answer questions and provoke some questions. At first the articles will be of a general nature. Last month we discussed the code used and its generation by a keyboard. This month we will describe RTTY signal reception in the machine, which is primarily a mechanical operation. In the months to follow an attempt will be made to fill in the gaps between the sending and receiving machines. Signal analysis and trouble shooting will be discussed as well as various circuits and types of machines.

Last month a chart was printed showing the code used. This code, which in one sense is similar to the Morse code, has but two conditions - key down or contact closed, and key up or contact open. The sending device opens and closes contacts in the proper sequence. At rest the contacts are closed, the opposite of a telegraph key.

Electrically the receiving machine is very simple. A motor provides rotary mechanical motion for the receiving unit and the keyboard. Usually the motor drives the mainhaft of the receiving unit and a gear on the mainshaft drives the keyboard. A pair of magnets respond to the signals produced by the sending device such as a keyboard. See figure one. The closed keyboard contacts produce a current flow or mark condition. When the contacts open a no current condition is produced called a space condition.



Fixed or adjustable resistance. Value should be such that 60 ma of current flows. Should be approx. 5 to 10 watt rating.

FIGURE ONE

The magnets are energized for for a mark and de-energized for a space. An aid to investigating the operation of the receiving unit is to connect a keyboard and typing unit (receiving unit) to a source of voltage which will produce a current of

60 milliamps using a suitable resistance for adjusting the current as in figure one. Connect the circuit, and with the motor off rotate the motor by hand and depress the R keylever. Continue rotating the motor until the typing unit responds by operating the R type bar. (Do not expect the R type bar to hit the paper; in operation momentum will cause the type bar to complete its travel to the paper.)

The receiving magnets, referred to as selector magnets, operate an armature. When operated marking, the armature through a mechanical linkage prevents the receiving cam from rotating. The receiving cam is mounted on the mainshaft and is friction driven. Therefore, when at rest, the keyboard is marking, the selector magnets are marking and the receiving cam is blocked and prevented from turning by the armature.

When a start pulse is received from the keyboard (a start pulse is always spacing and always precedes the five coded pulses of any character) the selector magnets release the armature which in turn allows the receiving cam to begin rotation. During the rotation of the cam the five coded pulses will cause the magnets to operate and release the armature. The receiving cam makes one rotation for each character received. Near the end of the rotation the magnets will operate the armature marking which will block and hold the cam from further rotation until another start pulse is received.

Staggered about the receiving cam are six sharp cam peaks. Five of them operate levers called selector levers. The selector levers are operated one at a time during the cam rotation, at the time each of the five code pulses are received. The sixth cam peak will cause the mainshaft clutch to be engaged. This clutch is a square tooth clutch which drives a pair of cams to cause printing and functions. (A function is an operation other than printing, i.e. carriage return, line feed, etc.) Figure two shows the relationship of the receiving cam to the other parts, including one selector lever and its sword.

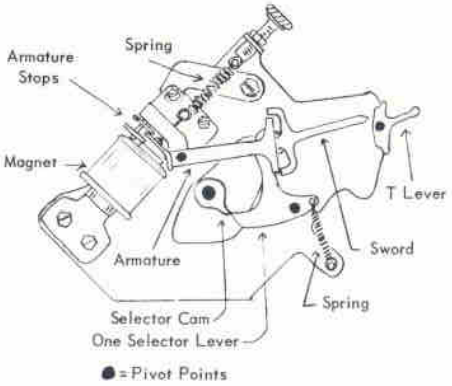


FIGURE TWO

Each selector is connected to the part called a sword because of its shape. The sword is drawn to the rear each time its selector lever is raised to the high part of its cam peak. There are, of course, five swords. Since the swords are free to move up and down as they move to the rear, they may be blocked at their upper and lower projections by an extension of the armature and be caused to move up or down at the

blade end. The position to which they are moved will depend upon whether the armature was marking or spacing when the selector lever was cammed to the high part of its cam.

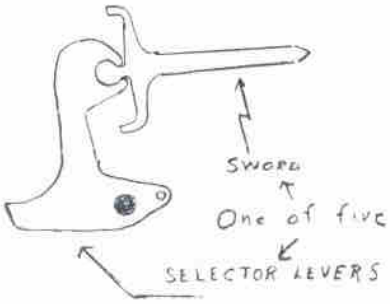
As the selector lever moves to ıe low part of the cam, pulled by a spring, it will drive the sword to the front. The sword will strike and position a T lever.

There are five selector levers, swords and T levers. At the end of the rotation of the receiving cam the five swords will have positioned the T levers either up or down depending upon whether the armature was marking or spacing at the time the selector lever was operated. The result of this operation may be seen since the T levers operate the series of vanes which cross the front of the machine. (The top five vanes correspond to the five coded pulses, the bottom vane follows the position of the platen as it shifts from upper case to lower case.) The vanes will be positioned after each character is received in accordance with the code of the character.

The position of the vanes will be transferred to semi-circular code bars on the type basket by means of ell shaped levers called bell cranks.

Thus the end result of the receiving selector mechanism is to position the code bars on the type basket in accordance with the code of each character just after it is eceived.

After the mainshaft clutch has been engaged the pull bars will drop down against the semi-circular code bars. These code bars have staggered notches cut on their top side and when positioned for a printing character will allow only one pull bar to fall into them. This one pull bar will then be struck by a bail and pushed forward and pull a type bar upward to print. By this method a series of pulses, first a spacing start pulse followed by five pulses, either marking or spacing, and then a marking stop pulse will select one particular type bar for printing.



This figure shows how these parts fit together.

FIGURE 3

We have received questions about lubricating the machines. Space does not permit discussion of that subject at this time. Do not be too concerned since a little lubrication goes a long way in Amateur RTTY service.

One specific question asked was, "How are the keyboard sending contacts adjusted?" Briefly, when any contact is open the clearance between them should be 15 to 25 thousandths of an inch. Use automotive spark plug wire gauges. Adjust by bending the left hand contact.

Strike the letter's key lever and rotate the keyboard shaft one-half turn to measure. Keep oil and dirt from the contacts. Radio and TV service contact cleaner will do to clean them. However lint from paper or cloth can cause the contacts to not close.

We will answer some questions each month. Please address questions to

AK-SAR-BEN RADIO CLUB, INC.
RTTY
P.O. Box 291
Omaha 1, Nebraska

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The newcomer to amateur radio is often confused by the many abbreviations as "Q" signs used by the hams. As these have been covered extensively in other publications, we shall concern ourselves with another facet of this. Now, for the first time, is a glossary of terms that you will hear on the VHF Bands. This will help you translate; from WHAT HE SAID.... to.... what he REALLY meant!

1. ALL MY GEAR IS COMMERCIALLY MADE. A GUY HAS TO THINK OF THE TRADE-IN VALUE. - - (I have never built anything in my life and I don't think I would know where to start.)

2. NO, I DON'T BELIEVE IN HIGH POWER. CAN'T SEE MAKING THE ELECTRIC COMPANY RICH. THIS 12AT7 IN THE FINAL IS GOOD ENOUGH FOR ME. ---(If I ran any more power than this I'd probably stick my fingers in the wrong place and get killed.)

3. I DON'T BELIEVE IN QSLing AS A RULE BUT I'VE ENJOYED THIS CONTACT SO MUCH, I WOULD LIKE TO EXCHANGE CARDS WITH YOU. I'LL PUT MINE IN THE MAIL BOX RIGHT NOW. ---(I have never heard your state before.)

4. YEAH, I SUPPOSE MOBILE OPERATION IS A LOT OF FUN, BUT I SPEND SO LITTLE TIME IN THE CAR, JUST BACK AND FORTH TO THE JOB, THAT IT WOULDN'T BE WORTH THE WORK. ---(Gads, the payments on that chrome monster are so high I couldn't afford a Heath Sixer on the 24-month plan.)

5. I'VE BEEN PLANNING TO GET ON TWO METERS ONE OF THESE DAYS. - - (As soon as I can find the grid dipper coil for that range, which I lost three years ago.)

6. FINE BUSINESS ON GETTING ON 220, CHARLIE. I'D GO UP THERE WITH YOU, BUT I HAVE SO LITTLE TIME TO HAM, I THINK I'LL JUST STICK TO ONE BAND. ---(The XYL said if I spend any more money on this radio junk, just to talk to three other guys across town, she would pack her bags and go back to her mother.)

7. HEY, WAIT A MINUTE, CHARLIE: SEE YA ON 220! ---(see above.)

8. HI, HI. (I just made a funny.)

de The Technician

****

FOR SALE:

20 sticks of .085 wall heavy duty 3/8 12 ft. tubing - Ideal ants. $1.25 per stick.

Doug, KØJQS
551-9040

****

From the General Manager's report to ARRL

Membership in the League reached an all-time high of 100,173 at year end, up 3.3% from the 1960 figure. Full Membership climbed at an even faster rate, 3.7% in the U.S., to set another new record at 78,064, and 9.6% in Canada to reach a new high of 2,709. Our total voting membership is thus 80,773.

League members renewed during 1961 at a continuing high rate--80.8%, up over the 79.0% the previous year. In the USA & Possessions, the renewal figure was 81.1%; in Canada, 83.5%; in other countries, 73.4%.

FCC figures showed 216,720 amateur operator licenses outstanding as of June 30, 1961, an increase of 12,965 during the fiscal year. Station licenses totalled 222,170, an increase of 11,912. There were 116,884 amateur applications of all types (new, renewal, modification, etc.) received during the fiscal year, an increase of 11,386 over the preceding 12-month period. RACES authorizations increased 1,405 during the year to a total of 12,105.

In May, Maine became the 46th state to grant amateur call-letter license plates. In the remaining four states -- Kentucky, Massachusetts, New Jersey and New York--efforts are still being made to procure successful legislation authorizing the plates.

Operations in 1961 yielded a "first gain" of $93,677.07 as compared with $86,571.52 the previous year. These are figures resulting from the operations at Headquarters; after deduction of additional expenditures authorized by you the net gain for the year is $41,378.43, which is to be compared with a gain of $45,773.85 in 1960.

The gross 1961 print of 1,324,998 copies of QST compares with a 1960 figure of 1,295,618, an increase of 2.3%. Printed pages for the year totalled 2082, against 2160 for 1960, or an average issue of 173.5 pages, seven and a half pages smaller than the average in 1960. The average cost per copy was accordingly down, 28.32 cents as against 28.78 a year earlier.

The 38th edition of "The Radio Amateur's Handbook" was brought out early in 1961 and was sold out by year-end, a total of 115,754 copies, almost identical with last year's figure. The total recorded distribution of the standard Handbook up to the end of 1961 was 3,353,776 copies.

Respectfully submitted:
John Huntoon
General Manager

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Dear Sirs:

Would appreciate you putting the following ad in Ham Hum!

FOR SALE: Heath kit Reflected Power and S.W.R. Bridge. Like new. $10.

KØRIG, Wm. E. Pascale
3634 S. 24th St.
556-3310
Omaha, Nebr.

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OFFICIAL BULLETIN NR 849 FROM ARRL HEADQUARTERS WEST HARTFORD CONN MAY 28 1962 TO ALL RADIO AMATEURS BT

All radio amateurs are reminded of the annual ARRL Field Day exercise coming up June 23 and 24. The ARRL Field Day activity is primarily for portable and mobile stations operating on emergency power in the field. Log requests are now being filled, so request your Field Day forms now. Write ARRL Communications Department, West Hartford, Conn. Complete Field Day rules appear on page 28 of June QST AR.

Editor's note: Glen Swanson, WØJQX, will be glad to hear of your interest in Field Day.

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OFFICIAL BULLETIN NR 850 FROM ARRL HEADQUARTERS WEST HARTFORD CONN JUNE 1 1962 TO ALL RADIO AMATEURS BT

Flash, the second Oscar package was launched into polar orbit today. Information to aid trackers is being sent by WIAW. We hope all amateurs will attempt to track and report the signals. Those using two meters are asked to help keep Oscars signal clear of interference. Full Oscar details are given on page 43 - June 1962 QST. All reports on Oscar will earn a special QSL card acknowledgement. Be sure you report fully to Oscar Association, P.O. Box 183, Sunnyvale, California AR

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OFFICIAL BULLETIN NR 848 FROM ARRL HEADQUARTERS WEST HARTFORD CONN MAY 21 1962 TO ALL RADIO AMATEURS BT

All radio amateurs will be interested in the following statem by the new President of ARRL.

One of the greatest honors that can come to any radio amateur is to be asked to serve as President of the American Radio Relay League. I most deeply appreciate your invitation to do so.

Amateur Radio has had a unique history of public service. Since its earliest days, almost half a century ago, it has contributed a steady stream of breakthroughs in radio communications, many of them of major significance. It has furnished untold thousands of key personnel to our armed services in times of national emergency. It has helped immeasurably in periods of local disaster to save lives and alleviate suffering. And it has made many other contributions toward the public welfare, always on a voluntary basis and without financial reward of any sort. It is a record of which we may all be proud.

The future will bring many interesting challenges to amateur radio, and undoubtedly many difficult problems, too. But I am confident we can meet them successfully if we will continue to dedicate ourselves in the future, as we have in the past, to the ideal of performing a real useful public service.

(signed)
Herbert Hoover, Jr., W6ZH AR

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