



HAM HUM

Published by
AK-SAR-BEN RADIO CLUB, INC. - Omaha, Nebr. 68101
Post Office Box 291 - Downtown Station



Vol. XXIII
No. 2

February 1973

NEXT MEETING

WHEN: FEBRUARY 9, 1973

TIME: 8:00 P.M.

WHERE: FITZGERALD FRIENDSHIP ROOM
COMMERCIAL FEDERAL SAVINGS AND
LOAN ASSOCIATION
4724 South 24th Street, Omaha
(Free parking in rear off 25th Street)

WHAT: PROGRAM BY WM. DEAN NOYES
COORDINATOR, OMAHA-DOUGLAS COUNTY
CIVIL DEFENSE

REFRESHMENTS - EYEBALL QSOs - VISITORS WELCOME

HAM HUM is the official organ of the Ak-Sar-Ben Radio Club, Inc., of Omaha, Nebraska, mailed monthly to all members and to others upon request.



Next copy deadline: February 16th

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AK-SAR-BEN RADIO CLUB, INC.

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PROJECT REPEAT

As is well known, your Ak-Sar-Ben Radio Club operates a pair of 2 meter FM repeaters on 146.34/94 and 146.22/82 MHz. These facilities are in constant use by a good number of our fraternity and for the most part the users are well versed in the operation of the systems. However, how many of you really understand the difficulty associated with maintaining these complex systems? In the past the majority of the midnight oil has been consumed by a precious few who have donated their time, skill and on occasions even sleep. These devoted people deserve our thanks but even more, I think HELP would be the best way to show our appreciation.

In order to expand the group who are familiar with the electronics involved in the repeater operation, it should be advantageous to form a group of interested people and conduct a few meetings to increase our knowledge of the equipment in use and its upkeep. Anyone who would care to join this project should contact

me at home (phone 558-4227) or at the next Club meeting.

Frank Taylor, WØGOJ

Repeater Committee Chairman

REPEATER FUND CONTRIBUTORS

Raymond F. Kydney, WAØWOT

Rev. James R. Belt, WAØJIH

Hugh L. Tinley, KØGHK

MEMBER NEWS

We quote a memo received from the desk of Pastor James R. Belt:

Hot Dawg! Just got on two meters. Here's a little something for the repeater fund and tell those that work on keeping it up, THANKS!

73,

Jim, WAØJIH

JANUARY MEETING

At the January meeting Robert W. Lefholtz of Northwestern Bell Telephone Company told us about emergency communications on a national basis and referred to the work local amateurs have done in this connection, particularly over the past eight years. He congratulated the amateurs in never having let the community down in an emergency of any type and explained how closely and effectively amateurs have worked with the Red Cross.

A most interesting film on the Rapid City disaster was shown.

Bob is Disaster Chairman of the Douglas-Sarpy County Chapter of the American Red Cross. We thank him for a most enjoyable program.

NEW MEMBERS ADDITIONS TO ROSTER

John F. Leeder, WØUFD
1123 South 50th Street
Omaha, Nebraska 68106
Phone: 556-9687

John Charles Miller, WBØFGE
4819 "J" Street
Omaha, Nebraska 68117
Phone: 734-3998

Donald D. Novotny, WBØDRS
9351 Redman Avenue
Omaha, Nebraska 68134
Phone: 572-8395

SPECTRUM CHART

The FAA recently published a 32" by 34" radio spectrum chart showing usage from zero to 300 GHz. Copies are available at 40¢ each from the Government Printing Office, Washington, D.C. 20402. Request FAA Electromagnetic Spectrum Chart, No. TD 4.27:E12.

(DARA Bulletin - Detroit)

FEBRUARY MEETING

Continuing our program of discussing with members the place of AREC and emergency communications in the scheme of things, particularly their use in public safety, we will have as our guest at the February meeting Wm. Dean Noyes, Coordinator, Omaha-Douglas County Civil Defense, who will give us the story of his organization.

Last month we discussed the Red Cross and emergencies in particular. This month we'll hear the rest of the story so our AREC Committee can plan future operations and emergency preparedness and our relationship with other communications during an emergency. We know not where or how extensive the emergency will be or when it will occur. The Committee hopes these programs and discussions will spark your thinking and that our Club will be sufficiently organized to provide immediate communication service where needed and to maintain this communication in whatever form it may take and for as long as it is needed.

REPEATER HAZARD

It has been reported to this editor by a normally unreliable source who chooses to remain anonymous that he has discovered a repeater hazard in the Omaha area.

It seems that each microphone of a repeater rig has two functions which are somewhat unrelated: The one function, the modulation of the rig; the other, the transferring operations from receive to transmit. Both functions are controlled by the push-to-talk switch.

This renowned observer has found that if the push-to-talk switch is pushed too often without being followed by modulation, a fungus develops on the microphone which he has named "fungus non-modulus." Once it starts to grow, it feeds from the push-to-talk circuitry and the growth is at an ever increasing rate. When this green fungus growth finally fills the housing of the microphone a pressure develops, causing it to ooze out, particularly in the area of the push-to-talk switch. This results then in the operator's hand turning green. So far the physicist who made the discovery has not discovered a cure, and the color gets brighter as time goes on. He inadvertently touched the growth with the little finger on his left hand and the entire finger is now green. It has, in fact, become so bright he now wears a glove on his left hand. He has also discovered that if the microphone is used for both of its functions each time it is placed in service, the growth diminishes until finally it disappears within the microphone housing. As his right hand has not been affected by his studies, he is now able to operate on

the Omaha repeater with his right hand and with no one finding out he had previously made a habit of tripping the repeater without modulating.

Having reported the dangers and the prevention of the hazard, we hope this is the end of "fungus non-modulus" and that it will never again be discovered.

The interview with this renowned personage unfortunately was recorded on very cheap tape and is already beginning to fall apart, so the whole story will be lost as the tape is no longer in condition to play back.

A bachelor is a man who hasn't yet been told all his defects.

(Florida Skip)

On a one-mile stretch of a Virginia secondary road, State Highway Department cleanup crews recently collected 1,781 discarded beverage cans and bottles and an unrecorded amount of paper, packages, and other rubbish. The Virginia State Highway Department is spending \$800,000 a year to clean up litter along the highways; another \$500,000 is being spent cleaning up towns, cities and parks. If you have been complaining about taxes, here is one place that each of us can do our part to cut such costs.

I wonder if communities would establish anti-litter clean-up programs, if the Highway Department might contribute a portion of the money saved to a youth recreation center or other community project. Seems like a good investment.

de Auto-Call

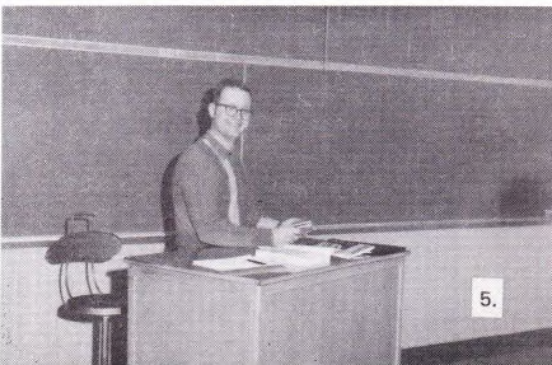
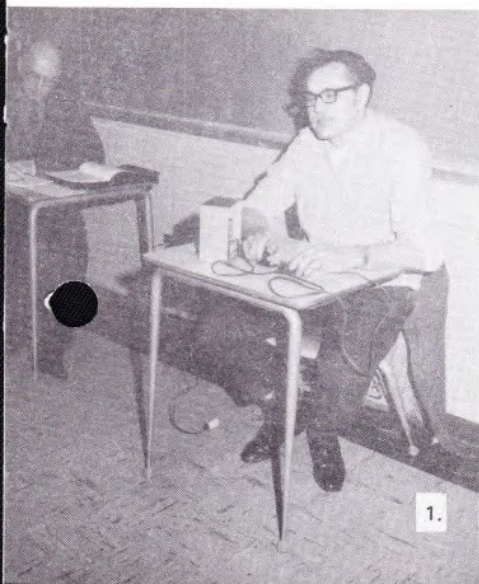
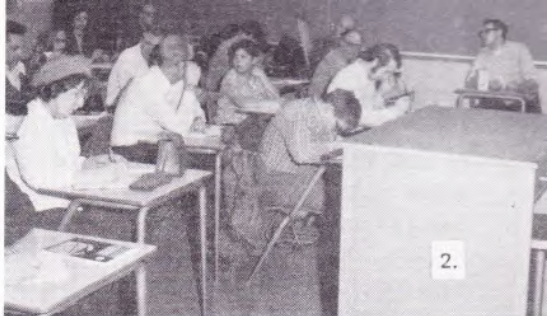
REPORT ON CODE AND THEORY CLASSES

By—Bob Lockwood, WAØDHU

The 1973 Ak-Sar-Ben Radio Club code and theory classes are well on the way with bright prospects for another record-breaking year. With approximately 80 students in the novice class and 40 in the advanced class, is it any wonder we are so elated!

The novice class is so large that we found it necessary to split the class into two groups. Group 1 starts out with code; group 2 starts out with theory. Then group 1 goes to theory class while group 2 goes to code practice.

With Jim, WBØCLU, at the helm in the novice class (photos 1, 2, 3, and 4) and with Mike, WBØBMV, and Lloyd, KØDKM, assisting, the code proficiency of the class is sure to develop to more than enough to pass the novice code test. Also, with Del, KØUIV, (photo 5) as chief theory instructor, the novice class will have a good chance to pass the theory exam with ease.



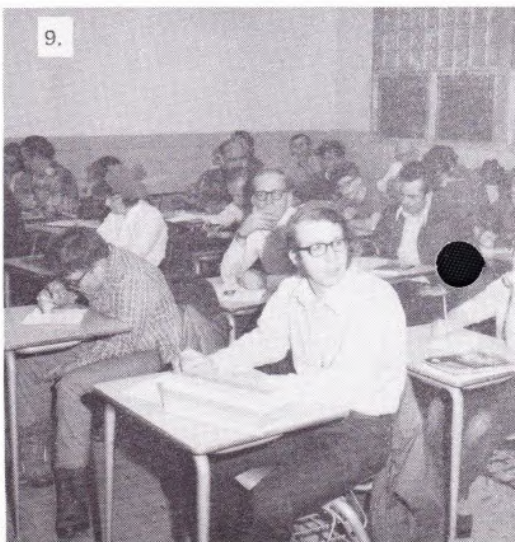
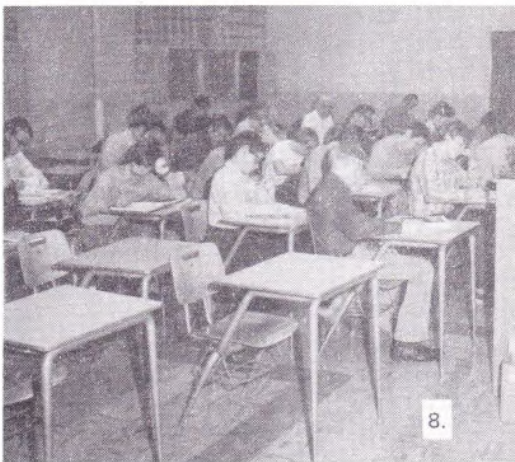
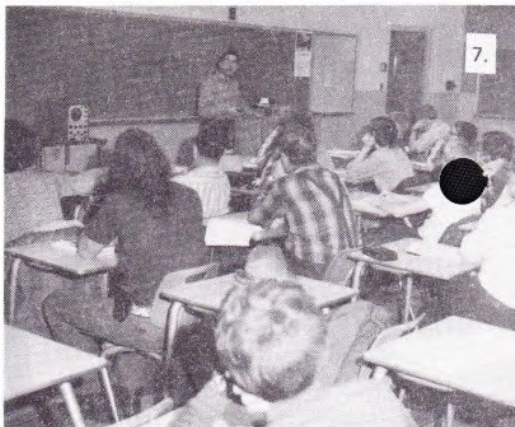
The advanced code class is lead by Doug, WBØHCC, who is the grandson of Jack, WØODL. Doug is a product of earlier code and theory classes and is doing a fine job.

Jack, WØODL, is our official secretary, treasurer, and chief handyman. He is doing a great job distributing literature, collecting money for license manuals sold, and keeping an accurate roll call. He also has Form 610 for those who need them.

WAØDHU, Bob, is theory instructor for the advanced class (photos 6, 7, 8, 9). Under his direction the class has studied Ohms law and inductors. Many demonstrations are planned for future class sessions in an effort to help the class develop a better understanding of the subject matter.

The Club authorized the purchase of a quantity of the newest ARRL license manuals. We purchased 80 manuals and every one has been sold at our cost. These manuals are the basic study guide for our classes.

With our classes held at Creighton Prep, we have the best possible environment; well-lighted classrooms, plenty of room, plenty of blackboard space, and even a chair for the instructor behind the lectern. Hi! Hi! We are truly thankful for the use of this facility.





Reverend R. J. Strange, WØQHG, who resides at Prep, has been a member of the Ak-Sar-Ben Radio Club for twenty-five consecutive years and was presented his 25-Year Membership Certificate during one of the class sessions (photo 10). Father Strange was President of our Club in 1953.

With Hugh Tinley, KØQHK, as our publicity chairman, is it any wonder

we have such a large attendance at these classes. We thank him for his efforts!

Many people working behind the scenes are helping to make the 1973 session of the code and theory classes a big success. This is truly a Club project, one which we hope will continue to be successful.

AREC NEWS – PRIORITIES

I was supposed to write on WINMJ's visit to Toledo, but something else came up which disturbed me so much that I am going to write about it instead.

The other evening a station from North Carolina checked into the Ohio Sideband Net and had the gall to ask the entire net to move to another frequency because we were interfering with a QSO party going on on a nearby frequency. I was so dumb-founded that anyone could have such a distorted notion of what is important and what isn't that I just sat there with my mouth hanging open.

Most of us learn at one point in life another to establish priorities. We learn to put first things first. Regretfully, sometimes some things must be foregone entirely.

In amateur radio priorities are

necessary also. Emergency operation involving life and safety come first. No sane person would question that. But drills to prepare for such emergencies should rank a close second and should certainly outweigh in importance contests or ragchewing. As I have stated in this column on other occasions, routine traffic handling is good emergency drill. In fact MARS goes so far as to state officially in the manual that routine traffic is permitted on MARS circuits primarily because it is good drill for emergencies.

The next time someone asks you to handle traffic or help with the RED CROSS, remember first things first!

James Grubs, W8GRT

de Ham Shack Gossip
Toledo, Ohio

NEWS NOTES

We quote for your interest letter received by John (WØWRT) and Mary Snyder from Millard (WA6VZZ) and Louise Edgerton:

December 17, 1972

Dear John, Mary and family:

Well, between wanting to write to John about Ham Hum and the Christmas season it is very certain that I must write. We are busy like most people, and I am not sure where the time goes, but one thing that slips for sure is my letter writing. I am even behind in my taping to Reid.

I do very much enjoy the Ham Hum and am enclosing some \$ to pay for the postage. John, thank you for seeing to it that my name remains on the mailing list. I did enjoy the recent issue with the coverage of past presidents nite. Sorry to read that Herb Curry was not feeling well enough to attend. What happened to Lou Cutler, WØVLI? I started working in commercial radio in Omaha at KOWH for chief engineer, Pete Nelson, a past president. Pete (W7RCF), I believe, now lives in Arizona. The technical articles are of interest also, even though I am working in the rapidly advancing field of integrated circuits, the ideas that come from the Ham shacks are still fascinating. I have not been active lately, but am getting quite interested in the 2 meter activity and in particular the repeater activity. Sounds like a good way to go and a lot of hamming fun. Sure would enjoy an eyeball QSO with WØRMB! Say hello to Cecil and family for Louise and me. Remember when if you wanted to talk

to someone on six or two that you had to make a sked on the land line first? And the "old timers" thought you were some sort of a freak? Well, it is good to see our faith in VHF being put to work. I still have the QSO card from the 38 states I worked on 6 back in the fifties. Well, enough nostalgia.

I am working for Computer Science Corporation at NASA's Ames Research Center near Mountain View, Ca. I have been with them since May 1 of this year. My work involves teaching a computer to have stereo vision. Basically we are converting a stereo TV image to digits, and then developing a software program to interpret to scene, then to make some decisions based on the scene and some preprogrammed instructions to a machine or robot if you will.

I read with interest that Bob Stratbucker is doing some interesting things in medical electronics. If there is any information available on his company, please send me a copy. (Ed. note: Dr. Stratbucker, WØHZE, is President of Health Technology Labs in Omaha.)

I do not see too much about your hamming activities John? How are things going? Are you still with the University? How about the family? We seem to have lost track of time. A letter from Riley's told of kids married and such and I am sure that I am not that old that these youngsters could be grown up and out into the world. (Ed. note: This is John Riley, ex-WØJJB, who worked with us at KMTV - no in Wyoming, I think.)

Well, the radio has just finished White Christmas in German and now is giving mit Jingle Bells in Deutschland. Louise and I hope that this has been a

good year for you and yours and that 1973 will be one of opportunity, good health and happiness.

Write if you find time, thanks again for Ham Hum, say hello to all the gang. Merry Christmas.

73's to the guys, & 88's to the gals!

Millard & Louise Edgerton
WA6VZZ, ex-WØNRT

FOR SALE

Home brew linear amp.

Pair of 4-400As in grounded grid.

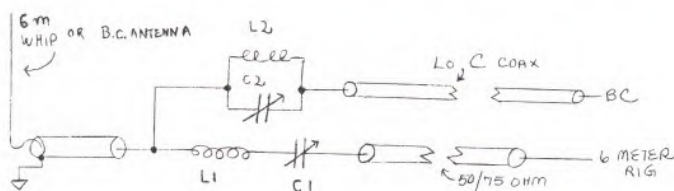
Mosley RV-4 vertical antenna 10 thru 40 meters.

Jim Howard, K5TNP/Ø
Phone: 339-5318

6M AND BC ON THE SAME ANTENNA

You have a broadcast whip on the car and desire to go 6 meters. If the antenna can be extended to 45 inches, it can be used as a quarter wave whip on 6 meters and as a BC antenna at the same time.

Use the following schematic to construct a frequency diplexer to accomplish the above.



L1 & C1 form a series 6 meter tuned circuit whose impedance is low at 6m and high at BC frequencies. It then passes the 6m info and blocks the BC signals.

L2 & C2 form a parallel 6m tuned circuit whose impedance is high at 6m and low at BC frequencies. It passes BC signals and blocks 6 meter signals.

The length of low capacity coax between antenna and diplexer box should not exceed 12 inches and the shorter the better. The coax to the BC receiver should be low capacity (the stuff that comes with the antenna) and short as possible. The coax to the rig should be any 50 or 75 ohm coax of any convenient length.

C1/L1 should have a large L/C ratio. Use about 1.7 uH and a 10 uF trimmer. Make the coil and then connect the coil and trimmer in parallel. Set the trimmer mid range, and using a GDO compress or squeeze the coil to get resonance at 6m. Then re-connect C1/L1 as shown in the schematic.

C2 and L2 should have a small L/C ratio. Make L2 about .2 uH and C2 a 100 uF trimmer. Dip to 6m after construction.

Build in any convenient container. After construction, tune C1 for minimum transmission loss. The xmitter signal will not be significantly affected by the diplexer.

You can now listen to WOR and xmitt or receive on 6 at the same time. The same circuit may be used on 10m by using 10m L&C values.

de K3HNW/W3URT

de Pack Rats Cheese Bits

REFLECTED AND DIRECTED

George H. Goldstone, W8AP
1010 Burnham Road
Bloomfield Hills, MI 48013

POLLUTION: THE RADIO ASPECT OF THE PROBLEM

Popular topics run in cycles. Except for a few subjects, like booze and women, the favorite subjects of our newspaper media – and their TV counterparts – seem to run in cycles. The present chief topic is "Pollution" – and dangers to what is a fairly new word to most of us – "ecology." To show what a group of mental doormats most of us are, how many of you have looked up the word "ecology" in the dictionary? Ours says that ecology means "etcetera"! And "etcetera" – as if we hadn't spent 4 years studying Latin – means "and the other things"; so perhaps "ecology" means "a discourse on other things." (We're stealing "logos" from the Greek, and mixing it with the Latin!)

Whatever the origin of the word "ecology," we seem committed to preserving our surroundings for our future years on earth, both ourselves and our children. And would you believe it, the FCC has a very real interest in keeping the radio spectrum free of "pollution" of the R.F. variety. What you hear in your receiver as man-made noise – the "QRM" you blame for every lost QSO – is actually a form of pollution. It is very real, and it can be observed not only by listening, but by feeding a broad-band receiver into a spectrum analyzer (fancy name for a fancy scope), the amount of noise polluting any particular part of the spectrum

becomes obvious to the viewer. By flying aircraft over metropolitan areas, particularly the industrial centers, an airborne receiver can detect and plot areas of high R.F. pollution just like infrared will permit photographing chemicals in bodies of water. Just as nature conservationists demand that there be nature, so users of the radio spectrum, including amateur radio operators, certainly should support a continuing national and international program to reduce the sources of radio interference which are within man's control.

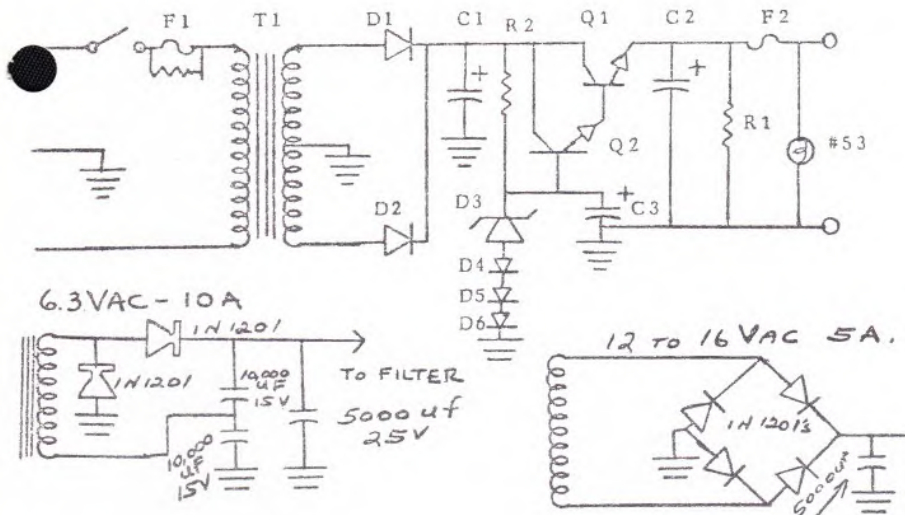
There are several aspects that suggest where amateur radio operators may help. One obvious one is to use equipment which does not generate and radiate spurious radiation on frequencies which are not intended. This is in the regulations, of course; but what conscientious amateur needs to be told not to throw garbage out the dining room window? Another source of R.F. pollution is on-the-air testing where a dummy antenna will prevent identification of a dummy operator. Still another form of pollution is the unnecessary transmission; the ham who can't sign off, but makes a "final final" 3 or 4 times; the half-wit who counts to ten (or some lesser number in keeping with his talent) repeatedly; and so on. One hardly need mention the foul language occasionally heard, where some ham picked up Old Gassenheim before he picked up his microphone.

Pollution is NOT like the weather; there IS something we can do about it! Every little bit of self-restraint helps!

– W8AP

de Auto-Call

14.1 VDC REGULATED POWER SUPPLY – 3 AMPS By WA5WON



- F1 1/2 Amp
- T1 18-0-18 VAC, 2.6 Amps
- D1, 2 1N1201 100 PIV 12 Amp
- D3 HEP605 13VDC 1W Zener
- D4, 5, 6 HEP170, 2.5A, 1000 PIV

- F2 3 Amp, slow blow
- C1, 2 2500-5000 Mfd 50 V
- C3 500 Mfd
- Q1 HEP247 7 Amp 50 V
- Q2 HEP703 3 Amp 50 V

This supply was designed to bench-operate a Regency FM transceiver, but other car battery operated devices will work as well. No voltage adjustment was included because only one voltage was desired. The beta of the pass transistors is utilized in filtering. Silicone diodes are used in series with the zener to increase the zener voltage by .7 VDC per diode and for temperature stabilization. The power stud diodes and pass transistors should be well heat-sunk because some heat is generated at full load. The power transformer should provide an excess of three volts at the rectifier output above the desired regulated output because of junction losses. Other rectifier configurations are given: remember that the current capacity for a doubler is in the capacitors.

73, de Bob, WA5WON
 (from the San Antonio Radio Club's BULL-ETIN)
 de Off Resonance, Texas

FOR SALE

2 meter Tempo fmv (new \$249.00) for \$180.00 with the following crystals: 94/94 - 34/94 - 22/82 - 16/76.

Ten watts output. Includes dynamic mike and mobile mount. Only a month old.

Jim, WAØJIH 397-5720
1006 N. 76

Omaha 68114

"Men prepare themselves with life-long study becoming authorities in physics or chemistry or biology; but in the field of social and political affairs every grocer's boy is an expert, knows the solution, and demands to be heard."

— Will Durant

The hunting party was lost and the hunters angrily turned to their guide. "I thought you said you were the best guide in Maine," one of them snapped. "I am," the guide protested, "but I think we're in Canada now!"

de Midwest C. B. 9 er's paper

FOR SALE

T power Motorola with pre amp. 34-94 22-82.

DC supply for Galaxy 5.

Hy-Gain mobile ant. 80-40-20-15-10 meter coils.

John Lutter, WAØTWC
Box 416
Pacific Junction, Iowa 51561
Phone: (712) 622-3492

FOR SALE

Clegg 22er, 9 channel transmit, VFO receive-tuneable 145.9-148 MHz, transmit Xtals provided are 146.16/146.22/146.25/146.34/146.52/146.64/146.76/146.84/146.94.

Cost of Xtals about \$50.00. Clegg 22er originally cost \$384.95. Total \$434.95. Will sell for \$300.00, Mic included.

WAØQVZ

WANTED

6m SSB transceiver. Looking for Swan 250c or TR-6 by Drake. Will consider trading above Clegg 22er if interested.

Bill Boltinghouse, Jr., WAØQVZ
34 Sunset Blvd. Trailer City
Council Bluffs, Iowa 51501
Phone: 366-0698

The late comedian W. C. Fields had the following advice regarding perseverance: "If at first you don't succeed, try, try, again. Then quit. No use being a Darn Fool about it."

FOR YOUR XYL. ELEPHANT STEW RECIPE

Take a medium-sized elephant and two rabbits. Cut elephant into bite-size pieces. Add water and season to taste. Add rabbits. Cook over kerosene fire for about 4 weeks at 475 degrees. Serves 3,800. If more people turn unexpectedly, throw in two additional rabbits... but do so only in an emergency as many people do not like too much hare in their stew!

TEST SET FOR MOTOROLA TWO-WAY EQUIPMENT

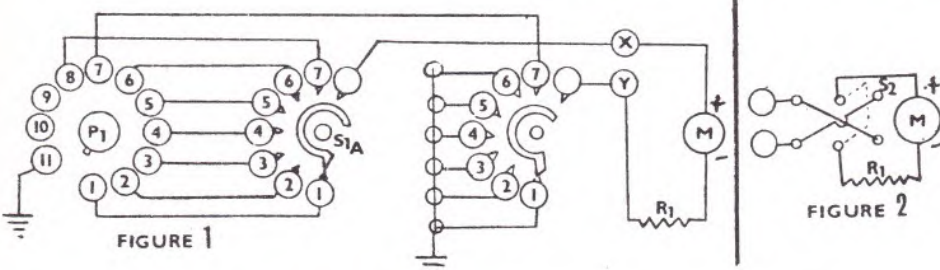
(From the First U. S. Army MARS Information Summary)

Many hams are making use of surplus Motorola commercial two-way equipment which has become plentiful and at reasonable prices in the past few years.

The Motorola commercial units all have metering jacks for both the transmitter and receiver. These were intended to be used with test sets

connected at points X and Y. R1 is an 18,000 ohm 1/2 watt resistor in either case. It should be 5 per cent or better. S1 is a two-pole 7 position switch.

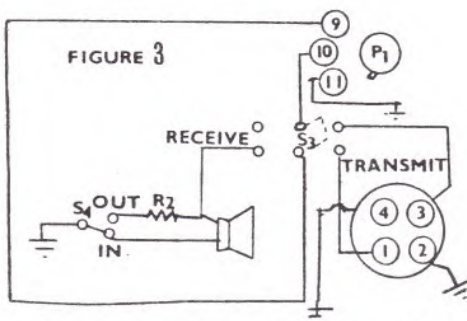
If it is planned to work on a unit installed in an automobile, the circuit shown in Figure 2 should be added. This will give you a monitor speaker and transmitter control at the unit so



manufactured by Motorola in several different versions, ranging in price up to \$500. The surplus price on these test sets has held relatively high, so that the average Ham cannot afford one.

Figure 1 in the diagram is for a basic metering circuit that can be built with a minimum of expense and used to meter either the transmitter or receiver section. Some of the original test sets have had two "pig tails," one for each unit.

The 11-pin plus, P1 is similar to the familiar octal plug or tube base, with a keyed center post. It is an Amphenol M-11. The meter is a 50-0-50 microamp meter, with center zero. A 0-50 ua meter can be used if the alternative circuit shown in Figure 2, with the meter reversing switch S2



that you can key it without help, which is otherwise necessary from the control head in the driver's compartment.

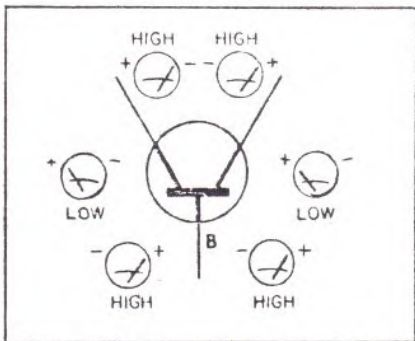
The connections numbered 9-10-11 go to P1 of Figure 1. The monitor should be a 3.2 ohm speaker. R2 is a 4 ohm, 5 watt resistor and S3 is a DP-DT snap or rocker switch. S4 is a SP-DT switch.

via ZERO BEAT
de W6SD Carrier

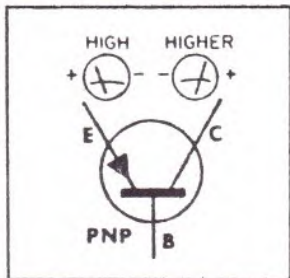
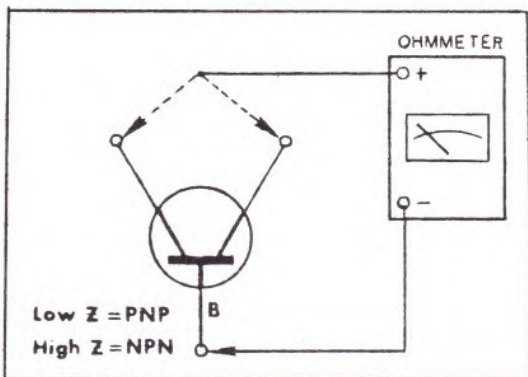
IDENTIFYING UNKNOWN TRANSISTORS

You can tell a PNP from a NPN, and identify the E, B, and C. First use another meter and make sure your plus lead is really plus. If not, mark your meter and reverse the procedure.

Step 1. Use Rx10 scale. Test all three leads in both directions (six tests). Two leads will test high in both directions. These are the collector and emitter. The other is the base.



Step 2. Place the neg. lead of the ohmmeter on the base. High res. to both other leads = an NPN transistor. Low = a PNP.



Step 3. Now test the two "non-base" leads to each other in both directions. It may be necessary to go to a higher scale on the ohmmeter.

(a) If the transistor type is NPN, the collector is the one which reads lower res. when it is connected to the pos. lead of the ohmmeter.

(b) If it is PNP, the coll. is the one which reads lower res. when connected to the neg. lead.

If any of the above tests do not work out, you have a bad transistor.

(Courtesy SONY Corp. Technical Digest)

INSURED? ARE YOU?

by Ash Palmer, K2EAW

President, E. F. Ashley Insurance Co.

A fair number of Hams operating 2 meter F.M. are aware of a recent experience I had with my Drake TR-22.

Since 1954 mobile gear of various types have cluttered the underdash of my vehicles. During this span of time no trouble was encountered with "other parties" removing the gear.

Having parked at the same "attended" parking lot for over 15 years the keys to the car were always left in the car as requested by the attendant so he could move the vehicle if he needed to. On October 30, my TR-22 was inadvertently left in the car instead of being taken to the office as usual. The inevitable happened - little TR-22 was missing when I picked the car up after work.

This leads to several points that all Hams with mobile or portable gear should follow:

1. Never leave your car unlocked even in an "attended" lot. Insist that the car be parked so it will not have to be moved and you take the keys. Most lots will cooperate.

2. In case of loss, make sure you are able to supply the police with serial number as well as value and make a report as soon as possible after loss.

3. Engrave your name and address on the gear using one of those littleerator type engravers.

A couple of interesting insurance questions came up also. Is the gear covered? If so, under what policy? This equipment can be covered by insurance if certain criteria are met.

Your automobile policy covers only the car and its "related" equipment permanently attached thereto.

Permanently attached Ham equipment should be endorsed on to your auto policy if you wish your auto policy to cover these or similar two way radio items. This will eliminate any possible questions.

The other area of coverage is your Homeowners Policy. A good number of these policies contain an exclusion for theft from an "unattended" automobile unless there are "visible signs of forceful entry to the exterior of the car." Most people know that a good thief can enter your fully locked car and leave no sign of entry. You can take an oath on a stack of bibles that your car was locked, but unless there are "visible signs" there is no coverage. This little exclusion can be eliminated by having an "Extended Theft" endorsement attached to your policy.

Of course, any coverage would be subject to a deductible that might apply to your policy.

I hope my experience will help point up the need for more care of mobile equipment.

de Ra Ra Rag - New York

It is believed that the color of a person's hair is dependent on the prominence of a certain metal element within the human body. An abundance of titanium produces blonde hair. Nickel makes white or grey hair. Red hair is probably due to Molybdenum. Brown hair would result from a larger proportion of cobalt, iron, and/or copper.

via Minn. MARS Bulletin
de W6SD Carrier

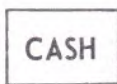


Hobby Industry

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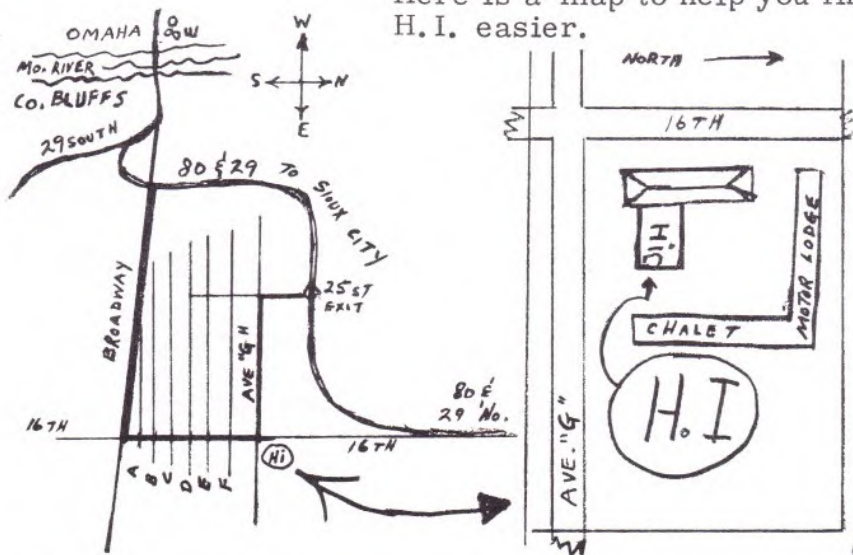


You don't have to look in outer space for a good deal on "HAM" equipment--just write or visit H. I. for a good deal !



The HI-SAVINGS PLAN can save you big money ! _____ ask about it.

Here is a map to help you find H. I. easier.



Box 864 COUNCIL BLUFFS, IOWA 51501 TELEPHONE (712) 323-0142

The CHALET-16th & Ave. "G"

HOURS: Tues.-Wed., Fri. - Noon/5 P.M. Thurs.-Noon/8 P.M. - Sat.-9 A.M./5 P.M.