



HAM HUM

Published by

AK-SAR-BEN AMATEUR RADIO CLUB, INC.
Post Office Box 291 — Downtown Station
Omaha, Nebraska 68101



Vol. XXVIII
No. 2

February 1978

NEXT MEETING

WHEN: TUESDAY, FEBRUARY 14, 1978

TIME: 7:30 P.M.

WHERE: JEWISH COMMUNITY CENTER
333 South 132nd Street
Omaha, Nebraska 68154

PROGRAM: REPEATERS — What are the do's and don'ts on proper use of repeaters? Have you ever been traveling on vacation in other areas of the country and wanted to make contact on one of the local machines only to find out you couldn't bring up that machine?

John Gebuhr, WBØCMC, will have answers to these and other questions you may have. He will also have one of our local machines on display.

73s
WBØPHP

VISITORS WELCOME — REFRESHMENTS — EYEBALL QSOs

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

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AK-SAR-BEN AMATEUR RADIO CLUB, INC.
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Omaha, Nebraska 68101

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New member initiation fee \$1.00
Regular member \$3.00
Regular member and spouse \$3.60
Student member \$1.05

MEMBER NEWS

Thanks for the reminder of the time to get with the dues for club membership. We have put our best foot forward over here in the Quad Cities area and still like to know what is going on in the Omaha area. Keep us on the club roster for this year and possibly beyond. It is nice to receive the news of fellow amateurs and of course, MARS members each month.

Our home here in the Bettendorf, Iowa area is much like the home we had in Omaha, only a few changes. One is that we do not have a tower up as yet. However, we are on fairly high ground for VHF activities and this has given us a chance to operate the VHF mode with only an antenna inside the attic.

There are four main repeaters in this area; 34/94, 16/76, 22/82, and 28/88. Also being on the Mississippi River, we get good ground conditions up and down the river for other repeaters.

Should any Ak-Sar-Ben Club

member come this way and want to make a phone patch through the local repeater, just touch up the figures 63 and then the number you want. This repeater is the 22/82 machine by the way. There are two different clubs in the Quad City area and at present we have not made our mind up as to which one to join. We did visit one of the clubs that meets at the Arsenal (Rock Island Arsenal). This club, like the Ak-Sar-Ben Amateur Radio Club, sponsors the Code and Theory Classes twice a year.

For my friends who belong to the Air Force MARS program, we will be looking forward to seeing them at the Region Three Conference in August of this year. Meeting place is to be the Sheraton Motor Hotel in downtown Rock Island, Ill.

73's
Bob Andrus, K0LUG
2490 East Dale Court
Bettendorf, Iowa 52722

THE PREZ SEZ

Congratulations to all of those with new licenses or upgraded ones from the January visit of the F.C.C. If you can't make it, don't give up; back up and give it another try.

The January meeting was very well attended as Neil Johnson, WBØEMU, enlightened us on the finer points of mobile telephone operations, past, present and future. Captivating!

Carl Quijas, WBØTUE, has resigned from the Board and a successor, selected by the present Board, will be presented at our upcoming meeting. A gigantic thank you to Carl and Sandy for their service to the Club.

Carl's military transfer also leaves the E.C. post of the A.R.E.S. open. Interim E.C. is Bob Neben, K9BL, who has been the Assistant E.C. On February 28 at 7:30 PM the A.R.E.S. will conduct a damage assessment class with the Red Cross at the Chapter House. This would be a good time to greet Bob personally.

Audubon, Iowa was the site for a mid-January tour by Bob, WBØLYU, and me. We met with several interested amateurs from Dennison, Atlantic, Stuart, Lake View, Earlham and Coon Rapids through an invite from Arnie Kravel, WAØGUD. The subject was severe weather preparedness and in particular, a hindsight of the May 1975 tornado activities.

The Club's porta-peater was assembled by the group and put on the air as a practice exercise. It worked just fine, and Marty, WAØGEH, should be proud of the machine. It is still available for emergency use anywhere in the U.S. upon notifying this Club. Frequencies installed are 146.34/146.94 MHz.

February 1978

A "Great Plains Small Computer Fair" as it may be called is tentatively scheduled to take place on June 2, 3 and 4 on the campus of the University of Nebraska at Omaha. Keep those dates open and if you can help, please call Rich Jandrt, WB9PII, at 556-1376. It is sponsored by the local IEEE student chapter.

When you donate to a repeater through P. O. Box 291, please specify how the money should be allocated. We are now transfer agents for repeaters other than those with WRØABQ identification. If you use a repeater — support it!

On February 4 and 5, at 1:00 PM and 2:00 PM respectively, training of operators will begin at the Club Station at the Jewish Community Center. This will continue through February at the same times on all the following Saturdays and Sundays.

Unhappily both Bill, WBØTWE, and Mike, WBØDXA, have left or soon will leave the Omaha area. Good luck to you both in your endeavors. We will miss having you in the amateur activities here. You are welcome back anytime.

Speaking of coming back, I understand that Dick, WØHXL, is back on the air. Good to have you up and around again Dick!

Our jacket offering to members only in this issue is an annual thing and it is the only offering that will take place this year. If you want one, act now.

See you at the February meeting.

73s,
Jim, WBØQGV

**BOARD OF TRUSTEES
MEETING
JANUARY 17, 1978**

Present were: Jim, WBØQGV; Tom, KØPQR; Jim, WBØJPN; Bob, WBØTVP; Carl, WBØTUE; Irene, WBØMPC; Butch, WBØNGD; Jon, WBØGQT; Bob, WBØLYU; and Bob, WØUQJ.

Jim, WBØQGV, introduced Jim Sanford, WDØCSC, and Mr. Mike Bartunek. We were shown blueprints of the new Red Cross Building plans and were asked for our input on where things should be placed for our convenience in the new building, (Emergency Radio Operations Room.) From what the Board members and I saw, just super! Fellow members, you will like it also.

The monthly Treasurer's Report was read and approved.

The Board also reviewed and discussed year end figures of the Club's holdings. It was determined for maximum earnings of interest, and convenience of the Treasurer, that certain funds would be moved to one savings and loan and one bank.

The Club now has seven Committees within the Club. The Board allocated operating funds for three of them.

A demodulator kit is being purchased for the Club station for use on the teletype. Bob, WBØLYU, also mentioned that a 10 Kw generator at 45 hp has been secured for use at the JCC.

President Peterson then called on Bob Neben, K9BL, the Auction Chairman for 1978, to explain how he was going to handle the auction. Bob stated the rules would stay about the

same and the method used to move the equipment would also be retained. The Board discussion about the auction followed and it was determined to have the location set by the next meeting. Bob will handle the advanced publicity and purchase a raffle item.

Tom, KØPQR, showed a new discount rate package for advertising in Ham Hum. The rates were given approval by the Board.

Carl Quijas, WBØTUE, has resigned from the AARC Club Board of Trustees. The Board accepted his resignation. Carl is being transferred from Offutt Air Force Base to a base in Mississippi. We all thank Carl for his fine work in the Club and also his XYL, Sandy, for all of the fine support she has contributed to our Club. We will miss them and wish them good luck in their new assignment.

The meeting was then adjourned at 03:55.

Robert R. Chereck, Sr., WBØTVP
Club Secretary

ARES News

On February 28 at 7:30 p.m., the Red Cross will hold a Damage Assessment Course at the Red Cross Chapter House, 39th and Dewey Street. All ARES members who have not previously had this training are required to attend. All others are welcome; it will be a good refresher.

73s,
Bob Neben, K9BL

CLUB STATION OPERATION

The following are tentative General Instructions for operating the club station.

Only licensed amateurs who are club members, and have been cleared for operation of the club station may operate same.

You will be responsible for proper operation of the club station per FCC Rules and Regulations, the same as when operating your own station.

You may operate only in the bands, and on frequencies using modes and power permitted by your class of license.

In case of an FCC citation and you

are involved, you will be required to answer the citation.

When operating the club station, use your own station call unless directed to use the club station call.

Use care in operating the station equipment. Improper operation or carelessness may cause damage to the equipment resulting in down time and repair. Keep the length of time you operate the station reasonable in order not to monopolize the privilege. Share with other members of the club.

Make proper entries in the log for all stations worked.

EXAMPLE

DATE	TIME		REPORT		FCY	ENDG	PWR	REMARKS
	GMT	STN	SENT	RECD				
10 Jan '78	2020	K6ABC	5-9	5-9+10	14 MHz	2025	100	San Jose, CA "Joe"

At the end of log enter - Above operation 10 Jan '78 2020 to 2025 GMT by John Doe, WØXYZ (N).

You will need a billfold-size copy of your FCC Amateur License, and a card showing that you have been cleared for operation of the club station. These cards should be presented when signing in at the Jewish Community Center main desk.

The main desk of the Jewish Community Center will maintain a list

of licensed amateurs cleared for operation of the club station. Please sign in and out before and after you operate. You must be cleared by the desk before you can operate. Be sure to sign out before leaving. The main desk of the JCC has the responsibility to keep the sign in and out log and to open and close the club station for security reasons. Please cooperate.

Franz Wille, WØQFY
* * *

TRAINING SCHEDULE

Training for operation of the club station will be given per the following schedule. The training sessions will run continuously during the times indicated.

DATE	TIME
Saturdays—FEB. 4,11,18, and 25, 1978	1:00 PM to 4:00 PM
Sundays—FEB. 5,12,19, and 26, 1978	2:00 PM to 5:00 PM

Franz, WØQFY

HAM HUM

GENERAL OPERATING PROCEDURES FOR OMAHA REPEATERS AND AUTO-PATCHES

The purpose of the GOP is to provide all concerned with uniform and efficient methods for use in the conduct of the operational activities pertaining to the Omaha area amateur repeaters.

Procedures and guide lines designed to cover every conceivable situation are not feasible; therefore, these instructions were developed to permit flexibility while preserving basic good operating practices. Should prescribed procedures fail to satisfy a specific requirement, common sense and initiative should prevail.

An amateur radio repeater is designed to extend the range and coverage of the individual amateur radio operator's low power and mobile equipment within his (her) given community. Because many mobile and hand held units are normally operating under a few watts output, the repeater extends their range and coverage and is very beneficial to the conduct of amateur radio communications.

SUGGESTED OPERATING PROCEDURES—REPEATER

Intrinsic with the repeater is the value received when used for emergency and public service use. A normal transmission should be as short as possible (120 seconds or less suggested) expressing single thoughts during each transmission. *Pause several seconds* between transmissions to permit break-in stations to access the repeater. These two basic procedures will naturally permit emergency or priority traffic and/or time to make an auto-patch call.

Base stations should be aware of the following:

1. Preference be given to portable and mobile/or handheld users.
2. Communicating direct on a simplex frequency leaves the repeater available for stations with emergency communications, or for auto-patch calls.
3. Auto-patch is primarily for mobile use.

Repeated transmitter keying, unidentified transmissions, transmitting music or strange noises, etc., constitute illegal operation and places the station license in jeopardy, and many people who monitor find ker-chunking very annoying. Infractions will cause the repeater to be shut down until such operations cease.

Watch your language and subject matter. The repeater covers a lot of area and many people, other than amateurs, monitor. Try to use language you would use with someone whom you wish to impress. Restrict discussions and opinions that might be disturbing to others to simplex operation, or better yet, land-line or eyeball contacts.

Certain conditions, such as heavy traffic, bad weather, or an emergency of any kind could lead to someone needing the repeater for emergency traffic. Be particularly careful to keep transmissions short during the periods, or better yet, QSY to a simplex frequency.

Common practices while operating through a repeater are required also:

1. Identify your station when coming on and leaving a repeater and at

intervals as prescribed by the Federal Communications Commission. You should clear with the repeater's call and your own if no station was contacted or on termination of auto-patch (97.87).

2. When accessing a repeater, state your intentions, i.e., CQ, requesting road directions, emergency, auto-patch, etc.
3. If you are testing, say so, and try to keep your tests as short as possible.
4. Do not feel you have to continue your QSO until one of you arrives at a destination. If you have exchanged your information and find words hard to come by, then it is time to QUIT.
5. You only have to I.D. every 10 minutes during QSO. Too much IDing only wastes time.

REQUIRED OPERATING PROCEDURES—AUTO-PATCH

Operation of a telephone through an amateur radio repeater is a privilege extended to operators by the various organizations, telephone company and the FCC. Even though a person may contribute to maintain the system, this does not give that person the right to do as he pleases. He must abide by the rules of the Amateur Service, Part 97, and the recommended ARRL procedures. *Violation of these rules will result in the termination of the auto-patch, prohibition of further use, violation reported to the Federal Communications Commission, or all three.*

The following rules are established to preserve the phone patch aspect of amateur radio. Although the following may appear stronger than what appears in the rules and regulations of February 1978

the Federal Communications Commission, they do have latitude for adjustment.

Keep in mind, the repeater station trustee has the responsibility and the final word in connection with the conduct on the repeater. The following rules will keep the Repeater and Auto-Patch in service to all members both for emergency use and your own convenience.

1. *Do not use the auto-patch where regular telephone service is available.* A base station may access and dial a number for a mobile or portable station requesting him to do so. **DO NOT DX** the other repeaters and use their auto-patch. This is in violation of existing tariffs filed with the telephone company. You may make a call only if you are inside the toll restricted area, or entering or leaving it.
2. Do not use auto-patch for commercial purposes. This covers any type of a call where there is a business gain for you or *the person you are communicating with*. This is in violation of F.C.C. rules. If you have any doubt as to the nature of the call — **DON'T MAKE IT!!!**

Emergency and/or emergency tests, OES functions, i.e., fund drives, etc. may be conducted for the duration of the exercise providing, of course, you have permission to use the repeater for that function. Permission may be obtained from ARES or Ak-Sar-Ben Amateur Radio Club Board of Trustees.

Organizations have established repeaters and have invested large sums of

money in equipment, maintenance, electricity, telephone, let alone the time spent to construct them and their associated hardware. Therefore, the Club has arranged to handle donations to all local repeaters and will pass the funds to the appropriate parties.

If you are a non-member or non-contributor, common courtesy is expected. Do not engage in long-winded QSOs even when no one else desires to use the repeater. You are using the equipment and it costs money to maintain it. You are welcome to become a member at any time, and donations may be sent to Ak-Sar-Ben Amateur Radio Club, Inc., P. O. Box 291, Omaha, Nebraska 68101.

John Gebuhr, WBØCMC
Repeater Committee Chairman

P.S. Following are call signs and frequencies of repeaters in our local area:

WRØABQ — 34/94 (Omaha)
WRØACE — 22/82 (Council Bluffs)
WRØAJT — 40/00 (Omaha)
WRØACD — 16/76 (Lincoln)
WRØAFW — 07/67 (Fremont)

MEMBER NEWS

Congratulations to: Ray T. Howarter, WBØSGB, who upgraded from tech to general on 1-17-1978; Carl David Lee, WBØYVH, who upgraded to general; and Richard D. Jugel, WBØTMU, who upgraded to extra class on Tuesday and then on Thursday obtained his second class phone.

WHO?

The Ak-Sar-Ben Amateur Radio Club has a lot going for it this year; the Code and Theory Classes, Field Day, Auction, Christmas Party, ARE and Club Picnic, just to mention a few. Besides having a good time ourselves, we do a lot of good for other people. That's where the Public Relations committee comes in. We are set up to let the public know about any aspect of our hobby that might let them know what we are all about. If you are in charge of a particular club activity, a PR committee member will contact you about publicity for an upcoming event. Advance publicity notices will also be accepted.

73s,
Bob Neben, K9BL

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10760 "Q" Street, Omaha

VHF COLUMN

I have been asked if I would attempt to write a monthly VHF column for Ham Hum, and I hope to increase the activity in the non-repeater portions of the VHF bands.

I will attempt to give the readers some information about our higher amateur bands, and in particular, openings noted here in Omaha, propagation events, upcoming contests and activity.

In the way of activity, more is needed in our area, especially on six meters. The present sunspot cycle is on the rise, and is predicted to reach its peak in late 1980 or early 1981. This means more openings on the VHF bands, and the chance to work some DX not seen since 1957 or 1968.

In 1977, six meters was open a total of 146 days throughout the year from Omaha, with stations being worked in 49 states (including Hawaii) and DX such as 6Y5, ZF1 and others. An Omaha station was heard by several Japanese stations on E layer skip in June, 1977 on six meters. The year 1978 is going to be even better for our higher frequency bands.

Most activity on six is now SSB or CW, usually centered around 50.110 MHz. Several manufacturers are producing six meter equipment, either as transceivers, or transverters for your HF rigs. Neither high power nor exotic antenna is required to work an opening, and quite a few stations have worked 47 or 48 states using a dipole or vertical antenna and running as little as 3 watts; of course a beam antenna and higher power helps.

The weak signal portion of two meters (144-146 MHz) could also use

more activity. Again SSB and CW are the norm here. A SSB "Side Winders On Two" (S.W.O.T) net is held every Tuesday evening at 2030 hours C.S.T. on 145.150 MHz. Net control station is KOPAY.

The phrase use it or lose it applies, so if you have the capability, be active. For those who ask where we are in this new sun spot cycle, I would say just slightly ahead of predicted values, with a 1977 average sunspot count of 42. December, 1977 had an average sunspot count of 80.3, with a high of 131 noted the 10th. As this is being written (21 January) solar activity is low, with few if any openings to be noted on the VHF bands.

Active conditions are expected 31 January - 3 February, 1978, with a few solar flare induced disturbances likely. This will mean a good chance for aurora propagation on six and two meters on the above dates. Turn your beams North.

Openings noted on six during January - 2nd: 0358 to 0605 UT open to the East Coast, Florida, Michigan, and Arizona. 4th and 5th: Aurora opening to North and South Dakota, Minnesota, Illinois, Indiana, Ohio, Wisconsin, Kansas, Iowa, and Michigan. KOPAY worked a station in Pennsylvania on two meters via the aurora. This aurora should return in 27 to 29 days.

Your comments, questions, and reports are solicited. See you at the Club meetings.

John Bruckner, WAØMRH

"LADIES ONLY"

Here we are into another well started New Year. Undoubtedly there are many new rigs, accessories, etc., to become acquainted with. Without a doubt, this is one of the most exciting times (new equipment) in the Ham Shack! In a good many cases a real challenge to one's ability to master this equipment so as to give one many years of enjoyment. This certainly applies to HOME BREW as well. HB ability is certainly one that holds me in awe and those of you who have this capability are very fortunate. Here's one that surely holds this group in highest esteem! As I have said before, with so many facets of our HOBBY, one can't help but find their "niche," thus adding up to the greatest Hobby ever.

The Code and Theory Classes are off to a great start this year with good turnouts in the Novice, General and Advanced. From personal observation I just have to say our instructors are certainly outstanding and really deserve a good "PAT ON THE BACK" for volunteering for this exacting curriculum. I would like to have seen more of you GALS attending these classes, but am happy to see those of you who were able to take advantage of this "OUT OF THIS WORLD" opportunity!

Due to previous commitments for the year 1978, this is my final column for HAM HUM. I have really enjoyed writing these articles and trust in some small way they have been the means of inspiring XYL's or YL's entrance into the fine field of AMATEUR RADIO.

Heartfelt THANKS to all MEMBERS of our fine AK-SAR-BEN

AMATEUR RADIO CLUB for your thoughtfulness in phone calls, letters and cards throughout the year. They are much appreciated and will always be highly treasured. As in the past, if I can be of any help to you GALS please contact me. See you all on the Bands!

33's,
Irene, WB0MPC

SILENT KEY

Walter R. Norton
3003 Paddock Plaza—#104
Omaha, Nebraska 68124
December 4, 1977

Mr. Robert Conley,
Aksarben Radio Club
Omaha, Ne. 68127

Dear Mr. Conley:

Thank you for inviting me to participate in the dedication of the Emergency Communication Center on December 18. I am sorry that due to previous commitments I was unable to attend.

I am sure the Center will fulfill a need for the Omaha area, though I hope it will not be necessary to use it frequently.

If I can ever be of assistance to the Aksarben Radio Club, please advise me.

My best wishes for a happy New Year.

Sincerely,
John J. Cavanaugh
Member of Congress

AUTO INSURANCE AND TWO-WAY RADIO

The question was asked by one of our members if we could put into Ham an information on what your auto insurance covers by way of two-way ham gear.

As there are many companies, each of whom can have its own policy provisions, the correct answer is always - see your insurance agent.

To give you a head start, I asked Karen Finnell, Family Insurance Department, Alexander & Alexander Inc., for information. As the problem is brought about because of the many thefts of CB radios, there is reference in her report to CB units. The provision in your policy no doubt covers two-way mobile radios which is where we come in. The insurance companies, in fact, lump CB and ham gear, business two-way radios, telephone radio equipment, tape decks, and scanning monitors all in the same package.

After you read the following information, the answer is still the same - consult with your agent to determine the coverage you do have and perhaps arrange for coverage you are willing to pay for.

de WØYZV
* * *

Citizen Band Radio Information Automobile Policies

Information from 14 companies and they all exclude coverage for sound receiving or sound receiving and transmitting equipment designed for use as a C.B. Radio, two way mobile radio or telephone, or scanning
February 1978

monitor receiver including accessories and antennas.

Coverage can be bought back in most companies, rates will vary from company to company but the following can be used as a guide for annual premiums.

Cost new of unit including
accessories and antennas

0 - 200	\$20
201 - 500	40
501 - 1000	68
1001 - 2500	122
2501 - over	190

Recreational vehicle policies; snowmobile, motorcycle, motor home. These policies also exclude coverage and some companies will let you buy it back.

Safeco in June 76 advised persons traveling in Mexico or Canada should be advised of the following: "Persons must obtain permit from government involved prior to entering that country. If they do not have a permit they risk having their CB unit confiscated."

Permits and information available from:
Secretaria de Comunicaciones
Mexico City DF, Mexico

Regional Director
Dept. of Communications
9th Floor
55 St. Clair Avenue E
Toronto, Ontario M4T1M2

Some companies will automatically cover CB units that are factory installed. However, we have found that two companies will not cover these factory installed units and they have to be specifically insured under the auto policy to provide coverage. One

of these companies goes as far as to exclude any combination of CB Radio which is part of a whole unit of AM/FM Radio &/or Tape Deck. The whole unit has to be specifically insured under the auto policy to provide coverage.

Each person should contact their agent to find out how their company's exclusion reads, and ask about factory installed units as to whether or not they have to be specifically insured.

Homeowners Policies

The companies we deal with have added form HO-245(10-76 Edition) to their policies and excludes coverage as follows:

"Any device or instrument, including accessories and antennas, for transmitting, recording, receiving or reproduction of sound which may be operated by power from the electrical system of a motor vehicle, or any tape, wire, record disc or other medium for use with any such device or instrument while any of said property is in or upon a motor vehicle.

Some companies have their own forms for this exclusion and each person should contact their agent to find out how their policy reads. They should also find out if coverage for this type of equipment can be added to the Homeowners policy or on a separate policy covering items as hand held units, mobile telephone, etc.

ADDITIONS TO ROSTER

Virginia Brenneman
(XYL of WØUQJ)
953 Oak Park Road
Council Bluffs, Iowa 51501
Phone: 323-1390

Leona T. Chereck
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Steven R. Mrsny
703 Waterloo Drive
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Phone: 779-4737

ilyn P. Peterson
(XYL of WBØQGV)
5208 Cass Street
Omaha, Nebraska 68132
Phone: 588-0643

Wilma R. Rabb
(XYL of WDØDDM)
1515 South 126th Street
Omaha, Nebraska 68144
Phone: 333-6632

IN AN EMERGENCY

What do you do when you hear an emergency call on the air? There are three things to keep in the front of your mind:

#1 LISTEN to find out *exactly* what is needed. What is the calling station asking for — an autopatch or just a telephone call? LISTEN to find out.

#2 THINK about whether or not you are in a position to help the calling station. If, for example, you have a tone pad but don't know the autopatch access code — you can't help. If you can't hear the calling station Q5, let someone else handle the traffic. Be *positive* in your own

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mind that you *can* help. If you can't, precious time can be wasted.

#3 ACT sensibly and deliberately. Act if you can help. Be *accurate*. Never try to change or interpret any message you have received. Be quick. Lives may be lost if time is wasted. If you hear emergency traffic being

handled, *never* transmit — *just listen*. Opinions don't help — they just waste time!

Fast, accurate message handling has been the pride of the Amateur Radio Service operators from the beginning. Let's keep up the tradition!

de AUTO-CALL

MIDWEST SPRING CONVENTION

The Second Annual Midwest Spring Convention will be held Saturday, April 1, 1978, at the Holiday Inn-Holidome, Kearney, Nebraska.

The Convention will include flea market, ham equipment auction, State MARS Meeting, QCWA Luncheon, several technical symposiums, an ARRL Forum, a special "Ladies Day," and an evening banquet.

John McKinney, WØAP, recently retired chief of the Grand Island FCC Monitoring Station, is the guest of honor and guest speaker. John has an astronomical amount of experience in the communications field and "no one" can tell it like he can. It will definitely be an evening to remember.

If that's not enough—over \$2,500.00 worth of door prizes will be up for grabs. For the ham, a Wilson Mark II with touchtone will be given away and for some lucky "Lady," a microwave oven will be presented.

There will be a 10% auctioneers fee and lunch will be on your own but everything else is covered in your registration fee. Guaranteed—no hidden charges.

Pre-registration—March 15, 1978
deadline \$9.75 per person
At the Door \$11.00 per person

Incidentally, the beautiful Holiday Inn-Holidome in Kearney is perhaps one of the finest convention centers in the Midwest, reasonable room rates, and a great recreation center for the family.

See you April 1 in Kearney. Until then.....

Sincerely,
Glen Byars, WØBNF &
Connie Comstock, WØKY
Honorary Chairmen
Midwest Spring Convention
Midway Amateur Radio Club
Kearney, Nebraska 68847

For further details and registration, contact Charles "Chuck" Kemery, WØCRK, Midwest Spring Convention, 3605 Third Ave., Kearney, Nebraska 68847.

P.S. All non-commercial space for the flea market is free—just let us know your needs.

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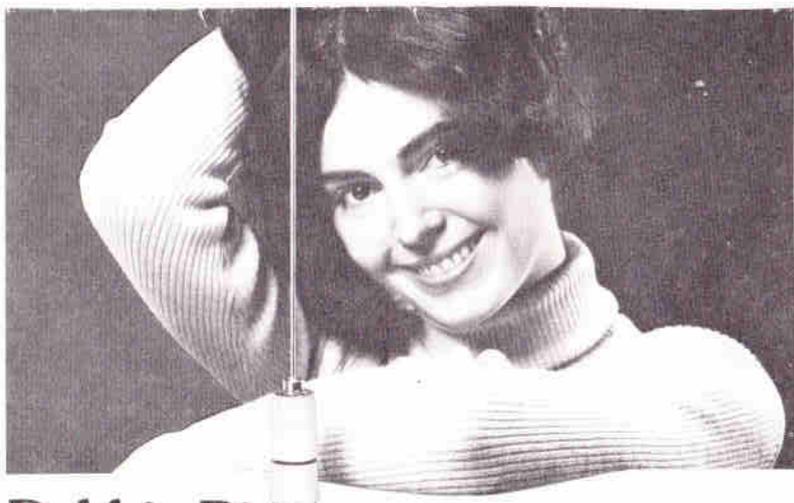
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Sincere thanks to all!

Thanks also to Lucille Taylor, XYL of Silent Key KØBSV, for her donation to be used toward the purchase of a teletype demodulator for the Emergency Communications Center at the J.C.C.; and to Joseph A. McCool, WBØNFF, whose donation will also be earmarked for that same purpose.



Debbie Pin-up

By popular demand . . . this Pin-up of Debbie. And it's a favorite antenna of the Larsen Line that she's showing too . . . the JM-150. That's the mount that requires only a 3/8" hole in the vehicle and has the fewest parts of any. Oh yes . . . it's patented too . . . U.S. Patent 3,944,722. That means it meets the government standards for being unique, different and an **improvement** over other ways of doing the job.

JOHN M. GEBUHR — WBØCMC — Phone: 553-6414
2340 NORTH 64th STREET - OMAHA, NE 68104

Larsen Antennas

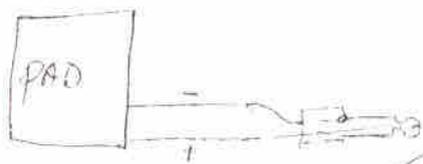
you HEAR the difference

PAD CONNECTIONS

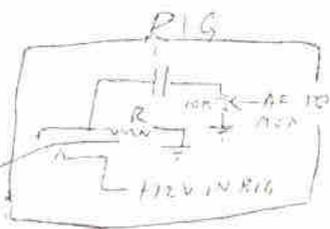
By—John Gebuhr, WBØCMC
Repeater Committee Chairman

The following circuits are for connecting the two common types of Western Electric Touch-Tone[®] pads for operation with a transmitter. Typical operating current on the two types is 9 ma \pm 1.5 ma on the slim line

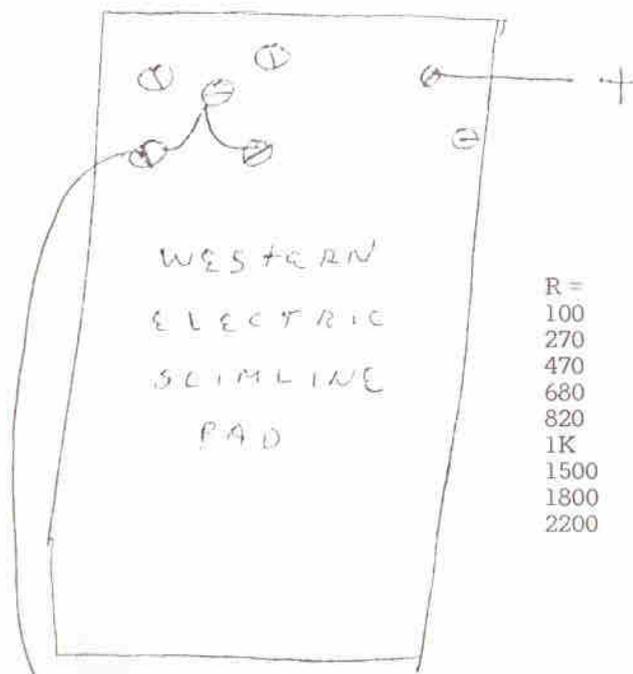
and 11 \pm 2 ma on the large style. Circuits as shown are cathode follower fashion to cancel hum and noise especially in mobile use. Also a recommended mobile hookup. Wire does not need to be shielded.



For Slimline 1K

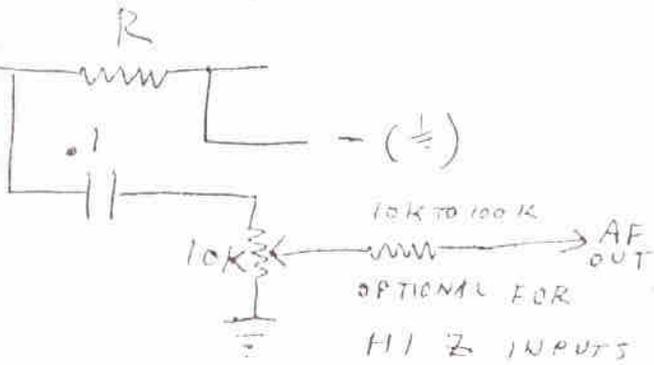


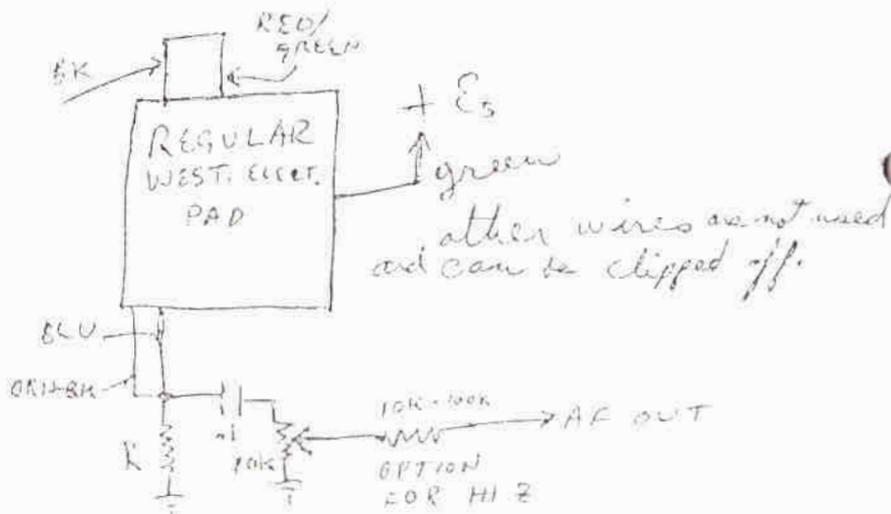
For regular 680Ω



WESTERN
ELECTRIC
SLIMLINE
PAD

R =	E _s =
100	1.1-3V
270	3-4
470	5-7
680	6-8
820	7-10
1K	9-13
1500	12-16
1800	15-19
2200	18-24





E_5	R
2V-3.8V	39 Ω
3-5	82
4.5-6.5	270
6-8	330
7-9.5	470
8.5-12	680
11.5-15	820
14-20	1K
19.5-24	1500

Operation of either pad over 24V is not recommended.

Transient Suppressors — General Semiconductor, Inc.

A series of "Transorb" transient voltage suppressors, capable of dissipating 1500 watts of peak power, are now available from GSI. These units carry numbers 1N5629 - 1N5665, and are 6.8 to 200 volts. The Transorbs are used to clamp a voltage spike or peak that could damage voltage sensitive components. A unit hung across the 12 VDC input to your mobile FM transceiver, rated at 14.7

V, could save a bunch of transistors some day, due to an induced voltage in the auto electrical system. Price about \$4.00. 230 W. 5th Street, Tempe, Arizona 85281.

73,
Lyn, W3NSI

(Editor's Note: Appears to be like the G.E. MOV varistors. W0WRT)

HAM HUM SWAP

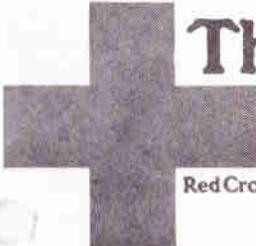
NO CHARGE FOR SWAP ADS (NON-COMMERCIAL) SUBJECT TO SPACE LIMITATION. MUST BE SUBMITTED IN WRITING TO P. O. BOX 291. SEE COPY DEADLINE PAGE 2.

FOR SALE: Model 19 Teletype, complete with power supply and table — \$60.00
Nat Perry, WØOCZ, 7009 S. 78th St.
Omaha, NE 68128; phone 339-6432

FOR SALE: Duplicate issues received on my Popular Electronics magazine thru January 1978. Newstand, \$1.00; your cost, \$0.75.
Charles A. Michel, KØQVL, 8720 Charles St.,
Omaha, NE 68114; phone (402) 391-3782 anytime.

FOR SALE: Sonar FM, 25 watt. 6 meter, w/xtals for 52.525 MHz — \$50.00 or will trade.
Frank Wolczak, WAØIWF, 3120 "U" Street,
Omaha, NE 68107. Phones: home 731-3072 (after 5:30 PM); office 333-2288

FOR SALE: Heathkit HW-101 — \$250.00 or best offer.
Jared A. Ketner, WAØQWU, 506 E. 14th
Wahoo, NE 68066; phone 402/433-3083



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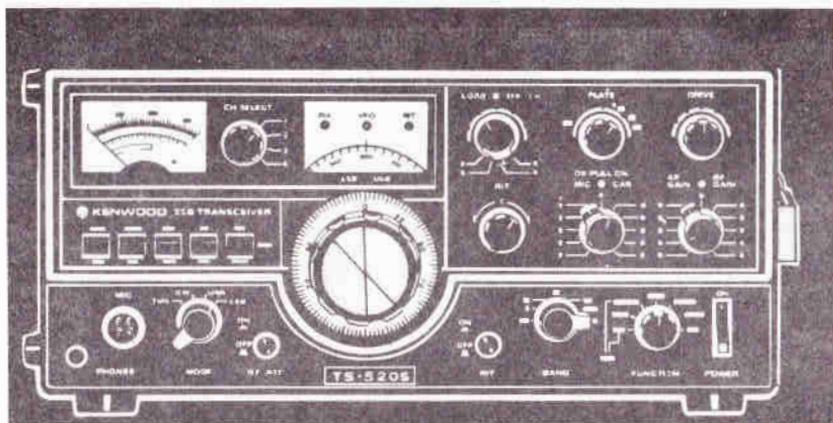


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Inc.



AL - WØJJK



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BUILT-IN AC SUPPLY WITH OPTIONAL DS1A-DC MODULE .



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2
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