



HAM HUM

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



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March 1982

HAMONICS

de WB6QEZ



"We have two big turkeys this year. The one I bought at the spermarket and the one he bought at the last swap meet!"

From THE CALL LETTER (Poway CA)

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.

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AK-SAR-BEN AMATEUR RADIO CLUB,
INC.

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Omaha, Nebraska 68101

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Copy deadline for April is Mar. 19

Dues-Quarterly Basis (For each quarter or part thereof for balance of calendar year.)

New member initiation fee . . . \$1.00

Regular member \$3.00

Regular member and spouse . . \$3.60

Student member \$1.05

Dues-Annual Basis

(Due and Payable each January 1.)

New member initiation fee . . . \$ 1.00

Regular member \$10.00

Regular member and spouse . \$12.00

Student member \$ 4.00

NEXT MEETING

WHEN: FRIDAY, MARCH 12, 1982

TIME: 7:30 P.M.

WHERE: HEARTLAND CHAPTER
AMERICAN RED CROSS
38th and DEWEY AVENUE
OMAHA, NE 68105

PROGRAM: **NATIONAL WEATHER SERVICE PRESENTATION**
"THE GENESIS OF A TORNADO
AND

OTHER SEVERE WEATHER SPOTTING"

HOW ARE YOUR SPOTTING TECHNIQUES? THIS WILL BE A FINE TUNING SESSION AND REVIEW ON STORM SPOTTING! ALSO A GOOD TIME TO ASK QUESTIONS AND RECEIVE ANSWERS FROM THE NWS EXPERTS.

VISITORS WELCOME
COME — JOIN US FOR EYEBALL QSOs AND LOTS OF REFRESHMENTS AFTER!

THE PREZ SEZ

Many thanks to the Dayton Amateur Radio Association for the use of their slides and tape of the Dayton Hamvention, and again thanks to Jim Wilson WBØJPN and his crew for the securing and presentation.

By now I hope everyone has heard of our effort to encourage the recruiting of NEW CLUB MEMBERS through the "Membership Contest" as outlined by Bill Martin, NØANQ the Chairman of the Membership Committee. (Details in this issue). This is a fine time for all to meet new friends and at the same time accumulate points for yourself.

Also, everyone is reminded that your dues are now due, and in order not to be in arrears, they should be paid by March 31st (further information on recent By-Law changes can be found in the February 2nd Board of Trustees Minutes in this issue).

Every member should feel free to use the Suggest Box to express your ideas on Club activities or programs. Remember it's your club and Your Board is trying to make it more meaningful for all!

Although the sheets for Auction Floor and Kitchen Volunteers are filling up, a few more are needed. If you can spare some time please contact General Auction Chairman Jim Sanford, NØAIH and let him know.

Remember, you are invited to the South Sioux City Hamboree, on March 19th & 20th, and if you cannot make that one I'll see you at The Nebraska State Convention at Kearney on the 27th and 28th of March.

Till then, 73's and hope to see you at the next meeting.

de Walt — KAØDMB

JUST A THOUGHT — In order to progress, even a turtle has to stick his neck out!

NOTES FROM THE BOARD OF TRUSTEES MEETING held on February 2, 1982 at the Blue Cross Blue Shield Building at 19:42 hours.

Members present: President Walt Brown, KAØDMB; Bill Martin, NØANQ; Dick Fehrman, KAØAAB, Lysle Renne, NØCKH; Jim Sanford, NØAIH; Fred Genovesi, KAØKDJ; Jim Wilson, WBØJPN; Mitch Gagne, NØAZF; Ray Fink, WDØGIL; and guest Tom Thiessen, KØPQR.

Minutes of the previous Board Meeting were approved as printed in the February, 1982 issue of Ham Hum.

Moved and seconded that the Treasurer's report be approved as read.

After Jim, NØAIH, reported on plans for the 1982 Auction, it was moved and seconded that the Auction Budget be approved for the amount of \$650.00.

Moved and seconded that the Ak-Sar-Ben Amateur Radio Club, Inc.

reject the ARRL proposition for Blue Ribbon Chapter designation.

Moved and seconded to reconsider the previous motion and to proceed with further discussion on the ARRL Long Range Planning Committee's proposed new Club category known as Blue Ribbon affiliation.

Moved and seconded that a reply be sent to ARRL rejecting the proposal and to form a committee for the purpose of further stating why we rejected it. President Walt appointed Bill Martin, N0ANQ; Jim Sanford, N0AIH; and Ray Fink, WD0GIL, to the new Committee.

Moved and seconded that Sections 5 and 9 of the Club's By-Laws be changed to read as follows:

Section 5: A member in good standing shall be considered as one who has paid all dues and assessments when and as levied by the Board of Trustees who has fully complied with the Articles of Incorporation and By-Laws of this association and upon failure of any member to comply with the same or to pay such dues or assessments within **sixty days** after the same are due, such member shall be considered not in good standing. A notice will be sent to the member notifying such member that if dues are not paid by March 31 that his membership will become inactive. If member has not paid all dues by March 31, his membership shall become inactive and he will be removed from all mailing lists and active roles. An inactive member may be reinstated by paying the current year's dues and will not have to pay an initiation fee providing such member reinstates within one year after becoming inactive.

Section 9: Change the arrears date to February 28th.

Moved and seconded to implement the New Membership Drive and Contest presented by Membership Committee Chairman, Bill Martin, N0ANQ.

Moved and seconded that four members of the Board of Trustees be appointed by President Walt to a Long Range Planning Committee, to report back to the Board in June.

There being nothing more to bring to the attention of the Board, President Walt adjourned the meeting at 21:50 hours.

Respectfully Submitted,
Lysle Renne, N0CKH
Secretary

NOTE: Unless stated otherwise, all motions carried.

BOOTLEGGERS STOPPED

On January 7, the autopatches on 147.00 and 145.45 began to operate in a rather strange manner. Namely, with no I.D. or, occasionally with WB01AQ. It was obvious that there was something wrong with his touch

tone pad because the patches seldom worked correctly. Nothing further happened until the 15th. Until then, we guessed that it had been a stolen radio and that the perpetrator had given up and disappeared from whence he

came. On the afternoon of Friday, the 15th, however, he was back with his touch tone obviously repaired.

That night, after a little ELINT investigation we knew his name, address, phone number, place of business and business phone. He was back on the air Saturday afternoon, at which time we tried to ascertain if the radio he was using was stolen and what kind it was. He told us (and we later verified) that it was a Yaesu hand held and the mail order company where he got it. We also checked with the FCC on the call he was using on the slim chance that their computer had screwed up yet another call. It had not.

Brian KMOY and I both had Wednesday free for a long lunch hour and decide to pay him a visit at his place of business. When we got there and inquired about him, we learned that he didn't come to work till the afternoon. Since Brian had to be back at work before then, we decided to visit his apartment. As we approached the address, I noticed a car following very close and suddenly it turned off. At the time I didn't think too much about it but now I'm sure that it was him and that he saw us. We could hear some sounds behind the door just before we knocked but they quit at the first rap. Our knocks went unanswered.

A few minutes later, downstairs, Brian dialed his number on the Council Bluffs auto patch. We believe that he had not found 22-2 yet. We could hear the phone ring upstairs and it was answered. Now I knew the significance on the car following us shortly before.

Brian had to be back at work before our suspect was due to be at his, so, for the time being, we gave up. After dropping off Brian, I went to work too and called Doug KØBOY. I arranged with him to meet me at about 2:00 p.m. and the two of us would go to our suspect's place of business and confront him. We did.

In the course of our conversation, it became apparent that he had simply done what most people on C.B. do—buy a radio and use it.

I needn't go into details of the conversation, but I will summarize. After we explained the way things are, legally and practically, for using amateur frequencies, he promised that we would not hear him on the air again until such time as he had a valid license. Because he was only doing what is standard procedure on C.B., did not make a nuisance of himself, and because of his generally positive attitude, he shall remain anonymous.

The only thing I need to add is that we are going to help him get a license.

Case Closed.

de WBØCMC

DONATIONS

40/00 REPEATER

Neil Phetteplace, KAØGUD
Ray Simmons, WBØYFX
V. K. Ramsey, WØSBZ
Byron Anderson, W9MEI
Joseph Connell, WØLHZ
Duke Humphrey, WDØEWH
Elliott Hamilton, WA9JIQ
Philip Trainer, WBØWYE
Jim Sanford, NØAIH
Bill Martin, NØANQ
Virgil Wamsat, KBØBW

**AK-SAR-BEN AMATEUR RADIO CLUB, INC.
1981 FINANCIAL REPORT**

Income

	Balance Forward	\$1,638.68
ARRL	\$ 317.25	
Auction and Concession Stand.	4,601.35	
Decals	114.00	
Decoders	606.00	
Dues and Initiation Fees	2,728.60	
Field Day Return.	34.95	
Ham Hum	225.55	
Hamfest Hospitality Return	200.00	
Jackets and Caps	463.57	
Meeting Social Hour	199.17	
Miscellaneous	107.85	
Picnic Refund.	97.39	
Repeaters—34/94	561.70	
40/00	516.00	
22/82	100.00	
	<u> </u>	\$12,512.06

Expenditures

ARRL	\$ 335.75	
Auction and Concession.	3,956.47	
CD's — 30-month	665.29	
Christmas	197.05	
Classroom Rent	175.00	
Decals	298.41	
Decoders	778.00	
Equipment Maintenance	406.39	
Field Day	372.51	
Gasoline	186.69	
Hamfest Hospitality	200.00	
Insurance	574.60	
Jackets and Caps	223.87	
Miscellaneous	102.34	
Office Supplies.	277.09	
Picnic	237.88	
Printing and Mailing.	714.11	
Refreshments at Meetings.	109.17	
Repeaters: 40/00 — 22/82	603.50	
34/94 Repair.	75.53	
Silent Key Plaque	251.05	
Telephone.	228.23	
	<u> </u>	\$10,968.93

Balance Forward \$ 1,543.13

First National Bank Savings Acct.	\$2,458.25
Commercial Federal Savings & Loan	\$1,088.69
Commercial Federal Savings & Loan — Face Value CD's at 12%	\$6,000.00

Total Interest Earned \$605.65

AK-SAR-BEN AMATEUR RADIO CLUB, INC.
1982 Budget Plan

Income Sources:

1. Dues — 375 Members			
	300 @ \$10.00	\$3,000.00	
	75 @ \$ 3.50	<u>262.50</u>	\$3,262.50
2. Donations:			
a. Repeater		600.00	
b. Miscellaneous		162.50	
c. Coffee Fund		<u>250.00</u>	\$1,012.50
3. Auction/Concession		650.00	650.00
4. Interest From Savings		700.00	700.00
5. Advertising		300.00	<u>300.00</u>
			\$5,925.00

Expenses:

Advertising/Public Relations		100.00	
Auction/Concession		650.00	
Awards		100.00	
Christmas Party		600.00	
Field Day		550.00	
Insurance		625.00	
Maintenance/Operating Expense		200.00	
Meeting Refreshments		250.00	
Northwest Bell		250.00	
Office Expenses		300.00	
Picnic		250.00	
Printing		<u>350.00</u>	<u>4,225.00</u>
Capital Expenses:			
Repeater Miscellaneous		700.00	700.00
Publications			
Ham Hum		1,000.00	<u>\$1,000.00</u>
			\$5,925.00

D X ANYONE?

Not too long ago, SM2/C9, remember him?, showed up on 28 megs. Every ham in the U.S. was after that one, except me. (I know, I lie like a rug on the floor.)

A pile-up is such a wondrous thing. SM2/C9, SM2/C9, W4gKC2W3fgKA9hwW6ruK1pn6N0ZZzzzXXxxYYySSS Bzzzzz, you know how it is! Every DXer has, or will run across one of these. What amazes me and many others in the hobby is, how that rig in front of us can lose the ability to "RECEIVE."

Somehow, what is supposed to be a "hobby" can change mild mannered amateurs into short-tempered, blood-thirsty beasts of prey. This phenomenon is known as "Rare DXitis," and rigs that usually transceive, somehow get locked in transmit. I'm not naive enough to think that the situation experienced in a pile-up will change in the near future but wouldn't it be great if everyone gave their call "**once**" and then "LISTENED" for 15 or 20 seconds to give that rare DX (who frequently is running low power and modest antenna) a chance to call for a specific station. I can dream, can't I? You cannot hear if you're in transmit!!

I think we have all heard the expression "two heads are better than one." Well, how about 15 or 20 pairs of ears are better than one. Those of us who have been DXing for any length of time are familiar with "DX spotting frequencies" (most often a 2 meter frequency where a group of DXers can report on what DX is available, call frequency, etc.).

Well boys and girls, Omaha is a

big DX town with a very good "DX spotting frequency." Thanks to Doug KØBOY, whose repeater we use, (145.45 with plus and minus 600 inputs), Pat NØBNY, Joe KØKES and other DXers in the area who got things going for us about a year ago.

This as yet "unnamed" DX group, publishes (for those who might be interested enough to contact Pat NØBNY) a complete DXCC Countries List, with (yours and others) Name, Call, Phone No., countries worked, confirmed and needed. Give a listen on Doug's machine and give Pat a call. Remember, two heads are better than one.

If you haven't got a "JA" it's rare DX!!

de KCØDB

**For DX Bulletins and information
— 8:00 p.m. Wednesday night,
BOY Repeater**

RECENT CONTRIBUTORS

34/94 REPEATER

Gerald Steiner, KBØYJ
V. K. Ramsey, WØSBZ
Byron Anderson, W9MEI
Charles Michel, KØQVL
Joseph Connell, WØLHZ
Duke Humphrey, WDØEWH
Elliot Hamilton, WA9JIQ
Walt Brown, KAØDMB
John Davey, WØWEN
Jim Sanford, NØAIH
Bill Martin, NØANQ
Don Sudduth, WBØYAM
Virgil Wamsat, KBØBW
Erich Bahr, WØHRK
Bill McConnell, WBØRWP

FROM THE LOG OF ANDY KH6BW ex 9AMK

Recently QST and other magazines mentioned EMP, in an article. EMP is Electro Magnetic Pulse, which is generated by an atomic explosion. Here follows my encounter with EMP.

I had the watch at the RCA Transmitter Station, at Kahuku Point, here on Oahu, the night an atomic bomb was exploded above Johnson Island, some 900 miles southwest of here. It was detonated at a height of 100 miles.

And when the explosion occurred, there were sparks all over the transmitter building. We had about a dozen transmitters on the air, five or six of them went off the air as the surge jumped safety gaps and the five to eight thousand plate volts followed...

I hurriedly reset all the transmitters, no damage was done. Then I went outside, and there some 20 degrees above the horizon to the southwest was the gigantic orange fireball. That was spooky enough, but up higher in the sky some 50 to 60 degrees there was an arc of pale violet light across the sky. Something sure was making atoms of gas in the ionosphere glow by excitation...

The transmitters were running to rhombic antennas, some around 1500 ft. on each leg — more or less. And 600 ohm transition lines, some perhaps a mile in length. And some of the

rhombics were beamed to the south and west. The voltage picked up from the EMP ran into the thousands. It had to jump across those gaps, and other paths to ground...

Recent articles mentioned that any solid state device with two feet of wire attached to it would be damaged by the voltage picked up. That is, if it is near an atomic explosion. That is, several miles away from it., **not under it...** So much for computers.

Maybe I'd better get my old NC-300 restored and have it ready for operation...

DE Andy KH6BW

Overheard —

Six-year-old Patrick asks Sammy, "Do you say a prayer before you eat?"

"I don't have to, my mother's a good cook!"

— Quote

"Work to make yourself indispensable, but never get the idea you are."

"You cannot do a kindness too soon — because you never know how soon it may be too late"

DONATIONS

22/82 REPEATER

Virgil Wamsat, KBØBW

HAM HUM postage

G. Beha Matthew WØLFJ

MEMBERSHIP COMMITTEE

- WHAT: **NEW MEMBER CONTEST**
- PURPOSE: WHAT ELSE — GET NEW MEMBERS
- TIME SPAN: February 1, 1982 through August 31, 1982
- ELIGIBLE PARTICIPANTS: All members except Board of Trustees
- CRITERIA: The new member must specify who brought him into the Club — Walk-ins don't count.
No credit for complimentary memberships for new novices.
- HOW IT WORKS: For each new regular Member — 3 points
For each new XYL Member — 1 point
For each new student Member — 2 points

PRIZES: (Progressive)	No. Points	Prizes
	10	First half dues for 1983 paid
	15	Second half dues paid for 1983
	25	Club Cap
	35	Call Book (USA)
	45	Call Book (DX)
	55	Club Jacket (W/O Patches)

Best Recruiter at end of August would win a new Electronic Keyer (donated).

MINUTES OF THE GENERAL MEMBERSHIP MEETING held February 12, 1982 at the American Red Cross Building, 38th & Dewey Avenue, Omaha, Nebraska

The meeting was called to order at 19:30 hours by President Walt Brown, KAØDMB. The meeting began with the Pledge of Allegiance.

Minutes of the previous meeting were approved as printed in the February, 1982, issue of Ham Hum.

Moved and seconded to accept the Treasurer's Report as presented by Dick Fehrman, KAØAAB, Treasurer.

HR Report had a change of format and a printed page was made available to those present instead of the report being vocalized.

President Walt announced that a Suggestion Box would be available at each meeting and encouraged anyone to make use of that means of expressing their suggestions or complaints.

New members accepted: Kevin Beam, KAØMWY, Novice Class;

Gregory Zimmerman, NØBTN, Advance Class.

Committee and other reports were given by: Jim Sanford, NØAIH, ARES report and Auction report; Dick Eilers, WØYZV, Publications Committee; Bob Lockwood, WAØDHU, Education Committee; Mitch Gagne, NØAZF, Repeater Committee; Bill Martin, NØANQ, Membership Committee; Mitch Gagne, NØAZF, Legislation Report; Jim Wilson, WBØJPN, Program Committee; Charles Peaker, KCØDB, DX Committee and Auction Food Report.

Bill Martin, NØANQ, made presentation of various Membership Certificates. Special recognition was given to Charles Michel, KØQVL, Julie Eilers, XYL WØYZV, and Joe Eisenberg, WAØWRI, who collectively represent more than 100 years membership in our club.

President Walt introduced guests from Lincoln, John Hauner, WAØYPY, the new President of the Lincoln Amateur Radio Club, and Jerry Kohn, WDØEGK, Immediate Past-President of the Lincoln club.

Committee reports continued by: Charles Michel, KØQVL, Courtesy Committee; Andy Anderson, W9MEI, Handi Ham Committee; and Vi Fehrman, XYL KAØAAB, Ladies Auxiliary report.

President Walt announced that the program would consist of several slides from the Dayton Ham-vention, after which coffee, doughnuts and cookies would be served. Welcome back, Aileene.

Meeting was adjourned at 20:30, there being no further business.

Respectfully submitted:
Lysle Renne, NØCKH,
Secretary

**YOU'RE INVITED TO THE
Denison Repeater Associations
1st Annual Flea Market Sunday April 18, 1982
8:30 a.m. — 5:30 p.m.
Deloit, Iowa**

Tables \$2.00 at the door plus admission. \$1.00 for advance table reservations plus admission — Admission \$1.00.

Be sure to reserve your table early to be sure you get one.

Door Prizes!

Where: Community Building in Deloit, Iowa.

5 miles north of Denison, Iowa. on highway 39

Talk in on 147.69/09-146.52

Doors open to exhibitors at 7:00 a.m.

Lunch & Refreshments available on premises.

For advance table reservations contact:

Gene Mitchell/KØHIG

Highway 39

Deloit, Iowa 51441

For more information contact:

KAØHIG — Gene 712-263-4782

NØAHP — Doc 712-647-2011

Sponsored by the Denison Repeater Association

Flyers available from our Club Secretary NØCKH



"Public Service our number one goal"

"IV TROPHY HIS MAJESTY THE KING OF SPAIN" BASES

Costa del Maresme

- 1st. The Trophy will be open to all World Nations, calling to the EA, EB, EC or ED stations, i.e. to be accepted a QSO, must be a Spanish Station.
 - 2nd. The competition will be held last week-end of April 1982.
 - 3rd. **TYPES.** All types recognized by radio amateurs will be permitted.
 - 4th. **FREQUENCIES.** HF: 160, 80, 40, 20, 15, 10.
 - 5th. **SCORING.** One point per QSO.
 - 6th. **TIME TABLE.** From 20.00 hrs. GMT Saturday to 20.00 hrs. GMT Sunday, with a periode rest of four consecutive hours.
 - 7th. **QSO's.** Only one QSO per station in each frequency and type will be accepted. 15 Consecutive minutes should be worked on each band per type as minimum.
 - 8th. **CONTROLS.** The EA, EB, EC or ED stations will give RS or RST and matriculations of the province. For example, a station en the province of Barcelona should sent 59B. Stations in others parts of the World should give the following information: RS or RST plus the contact number beginning with 001. The time should be not submitted, but should be entered in the logs in GMT.
 - 9th. **FINAL SCORE.** Number of QSO's multiplied by the number of provinces obtained for band, taking into account that the station EA 3 RCC count as an extra multiplier.
 - 10th. **CALL SIGN.** The general call sign of the Contest will be: "CQ IV TROPHY H.M. THE KING OF SPAIN". In CW: "CQ EA Ø JCTEST.
 - 11th. **LOGS.** Should be submitted to "AGRUPACIO RADIOAFICIONATS CALELLA. Apartado 181. CALELLA (Barcelona) SPAIN. Closing date: post mark 30th. June 1982. 4 IRC's or 2\$ are needed with logs.
 - 12th. The station which obtain a total of 75 QSO's will receive the
- Continued on page 14.

RB Associates

R. H. BRENNEMAN

COMMUNICATIONS CONSULTANTS
ENGINEERING SERVICES
(712) 323-1390

W Ø U Q J

953 OAK PARK ROAD
COUNCIL BLUFFS, IOWA 51501



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PH. 554-0635

Your card could be in this spot for
\$2.50 per month.

Continued from page 12.

commemorative AWARD. Special QSL to all received logs under 75 QSO's.

13th. The SWL stations which wish to participate will receive AWARD by obtaining 150 QSO's.

TROPHIES

- EA Ø JC TROPHY FOR THE WORLD HIGHEST SCORE.
- SPECIAL PRIZE FOR THE HIGHEST CLASSIFICATION, NATIONAL AND INTERNATIONAL WITH AN INVITATION FOR THE WINNERS AND ONE COMPANION TO SPEND EIGHT DAYS IN CALELLA IN THE SECOND FORTNIGHT OF OCTOBER 1982 TO RECEIVE THE TROPHY. THIS PRIZE DO NOT INCLUDE THE TRIP.
- SECOND SPECIAL PRIZE, WITH ANOTHER INVITATION TO SPEND EIGHT DAYS IN CALELLA, DURING SAME DATES, BY RAFFLE, BETWEEN THE FIRST WINNER OF EACH CONTINENT. THE CONTINENT WINNER OF THE FIRST SPECIAL PRIZE WILL BE NOT INTO THIS RAFFLE.
- SPECIAL NUMERATA AWARDS FOR THE 10 TOP SCORES IN THE WORLD.
- SPECIAL AWARD FOR CONTINENT CHAMPIONS.
- SPECIAL AWARD FOR THE OM's OBTAINING 75 QSO's.
- SPECIAL AWARD FOR THE SWL HIGHEST SCORE.
- SPECIAL AWARD FOR THE SWL OBTAINING 150 QSO's.
- SPECIAL QS FOR ALL THE APPLICANTS.

Calella - Costa del Maresme, august 1981.

Dear colleague,

Many thanks indeed for your kind participation to the "III Trofy of His Majesty The Spanish King". We are very glad to send you herewith the Diploma you have gained on your own merits in the bands.

We are also very glad to include the "IV Trofy" basis to be held in the next year in the hope you will newly participate. Would you please be kind enough to let know them to other colleagues around you. Many thanks in advance.

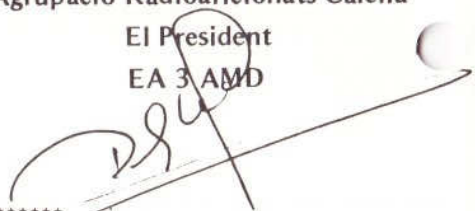
With our best recognition to your merits,

Yours very truly,

Agrupació Radioaficionats Calella

El President

EA 3 AMD



HAM HUM SWAP

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

- FOR SALE: Daiwa CNW-418 cross-needle antenna tuner. 500W PEP. Mint with box, manual. New last month. Call David, KAØHTW/KC, 978-8954 days, or 397-6339 nights. My cost \$175.00
- FOR SALE: Hi-Gain transceiver model 3750. Frequency range 160 meters thru 10 meters. Excellent Condition. Original cost \$1,995.00. Asking only \$650.00
Curt Risvold, WØHYY
- FOR SALE: Tempo S/ with TT, rubber duck, charger cord and leather case, Asking \$225.00 Regency HRT-2 2-meter Handi-talkie with charger, rubber duck, leather case with crystals for 22/82, 34/94, 16/76, 40/00, 52/52. — \$60.00.
Lowell Jackson, WAØHKT 493-3590
- WANTED: A commercially made TR switch. Johnson, B&W, or ???
Matthew Smith, W4LBQ
6401 Redick St. Omaha, Nebraska 68152 — 572-6143
(after 3:30 p.m.)
- FOR SALE: Parts for plate supply, 4X150A sockets, 811A sockets, 450 watt amplifier can be made from these.
Matthew W4LBQ — 572-6143



"So supposing you're coming home from work on the freeway bumper to bumper, you just turn off your motor, press this little button and . . ."



Inc.

1601 AVE. "D"
P.O. BOX 864
COUNCIL BLUFFS, IOWA 51502-0864

PHONE: (712) 323-0142

AMATEUR RADIO EQUIPMENT

NEW

Small talk.



Processor, IF shift, N/W switch, affordable

\$699.95

TS-130SE

An incredibly compact, full-featured, reasonably priced, all solid-state HF SSB/CW transceiver for both mobile and fixed operation. It covers 3.5 to 29.7 MHz (including the three new Amateur bands) and features digital display, IF shift, speech processor, and narrow/wide filter selection on both SSB and CW.

TS-130SE FEATURES:

- 80-10 meters, including three new bands**
Covers all Amateur bands from 3.5 to 29.7 MHz, including the new 10, 18, and 24-MHz bands. Receives WVV on 10 MHz. VFO covers more than 50 kHz above and below each 500-kHz band.
- Two power versions... easy operation**
TS-130SE runs 200 W PEP/160 W DC on 80-15 meters, and 160 W PEP/140 W DC on 12 and 10 meters. TS-130V runs 25 W PEP/20 W DC input on all bands. Solid-state, wideband final amplifier eliminates transmitter tuning; receiver wideband RF amplifiers eliminate preselector peaking.
- Digital display built-in**
Six digit green fluorescent tube display indicates operating frequency to 100 Hz, external VFO or fixed-channel frequency. RF shift, and CW transmit-receive shifts. Analog subdial back up.
- Built-in Speech Processor**
Increases audio punch and average SSB output power.

- IF shift circuit**
Very effective in eliminating interfering signals, by placing them outside the IF passband.
- CW narrow/wide selection**
"N-W" switch allows selection of wide or narrow bandwidths. Wide CW and SSB bandwidths are the same. Optional YK-88C (500 Hz) or YK-88CN (270 Hz) filter may be installed for narrow CW.
- SSB narrow selection**
"N-W" switch allows selection of narrow SSB bandwidth to eliminate QRM, when optional YK-88SN (1.8 kHz) filter is installed. (CW filter may still be selected in CW mode.)
- Sideband mode selected automatically**
LSB on 40 meters and below; USB on 30 meters and above. SSB REVERSE position on MODE switch.
- RF Attenuator, built-in**
Allows optimum rejection of IM distortion.
- Single conversion PLL system**
Provides improved stability and spurious characteristics.
- Protection circuit for final amplifier.**
For maximum reliability, the final amplifier is protected by circuitry that monitors VSWR and temperature. (TS-130V, VSWR only.) Output power is reduced when abnormal operating conditions occur. If especially severe operation is anticipated, optional cooling fan, model FA-4, may be added. Model TS-130S, with FA-4 installed, is also available.

- Effective noise blanker**
Eliminates pulse-type noise.
- Compact and lightweight**
Only 3-3/4 H x 9-1/2 W x 11-9/16 D (inches); weight 12.3 lbs.
- Other important features include:**
VOX for SSB, CW semi-break-in with sidetone; one fixed channel, and 25 kHz marker.



Optional DFC-230 Digital Frequency Controller

Allows frequency control in 20-Hz steps with UP/DOWN microphone (supplied with DFC-230). Includes four memories (handy for split frequency operation) and digital display. Covers 100 kHz above and below each 500-kHz band. Very compact.

More information on the TS-130 Series is available from all authorized dealers of Trio-Kenwood Communications



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Matching accessories for fixed station operation:

- PS-30 base station power supply (remotely switchable ON or OFF with TS-130SE power switch)

Other accessories not shown:

- FA-4 fan unit for TS-130SE
- YK-88C (500 Hz) and YK-88CN (270 Hz) CW filters
- YK-88SN (1.8 kHz) narrow SSB filter
- AT-130 compact antenna tuner (80-10 meters, including 3 new bands)
- MB-100 mobile mounting brackets
- KPS-21 base station power supply (also for TS-130SE)
- TL-922A linear amplifier
- SP-120 external speaker
- VFO-120 remote VFO
- MC-50 50k Ω /5000 μ F desk microphone
- PS-20 base-station power supply for TS-130V
- PC-1 phone patch
- HC-10 world digital clock
- MC-30S and MC-35S noise cancelling hand microphones
- MC-60 deluxe desk microphone
- SP-40 compact mobile speaker
- HS-4, HS-5, and HS-6 headphones



Specifications and prices are subject to change without notice or obligation.