



# HAM HUM

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



Vol. XIX  
No. 2

February 1969

## NEXT MEETING

February 14, 1969 - 8 P.M.

Club Room - 39th and Dewey  
Red Cross Chapter House

Business Meeting Plus Film

Refreshments and Gabfest

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FEBRUARY SPECIAL MEETING - Friday, February 28 - 7:00 P.M. Red Cross Chapter House.

A slide and tape presentation will be shown covering troubleshooting the electronics of a radio used in aircraft. These slides will be furnished by Bruce Stackhouse, WØRIN, Airkaman of Omaha, Inc.

The circuits to be discussed cover all types of transistor and integrated circuits. A discussion will follow led by Cecil DeWitt, WØRMB. Refreshments will follow.

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**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 28th

## NEW MEMBERS ADDITIONS TO ROSTER

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P. O. Box 1  
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McClenahan, Bobby  
6640 Emmet Street  
Omaha, Nebraska 68104  
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Nuckols, Damon B.  
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Omaha, Nebraska 68134  
Phone: 393-3923

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Did you know? The last club meeting held on Valentine's Day was in 1964. If you miss this year's meeting you will have to wait until 1975 for the next Valentine's Day Meeting.

\*\*\*\*\*

Published by  
AK-SAR-BEN RADIO CLUB, INC.  
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Omaha, Nebraska  
January 11, 1969

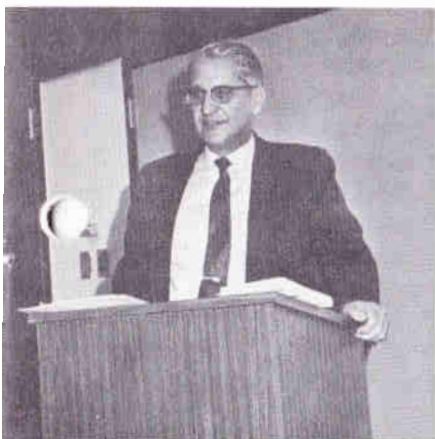
Ham Hum  
Ak-Sar-Ben Radio Club, Inc.  
P. O. Box 291, Omaha, Nb.

Gentlemen:

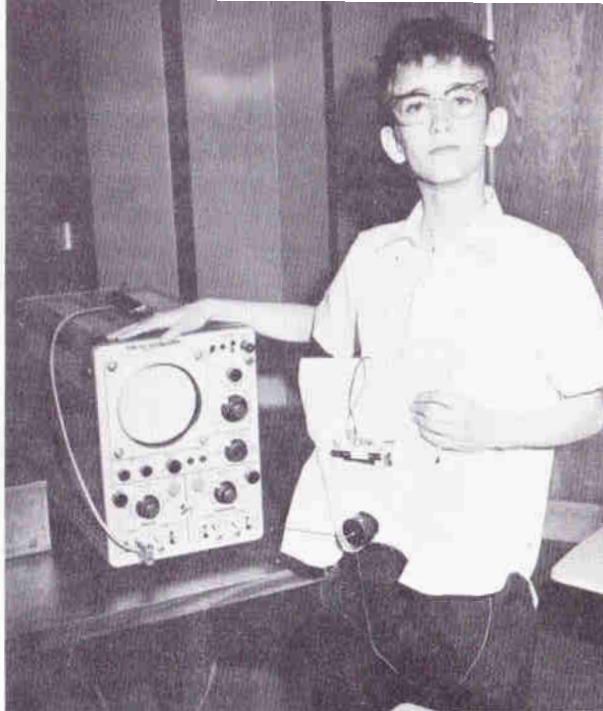
In connection with our recent club meeting at the new Nebraska Methodist Hospital and on the subject of Medical Electronics, I would like to express my personal gratitude to the following persons who made the program possible: Program Chairman, Charles Michel, KØQVL; Dr. Stan Bach, WAØIIX, for making arrangements with the hospital for the facilities; Dr. Kenneth Rose of the Univ. Health Services in Lincoln for the use of his 35 mm telemetry slides; to Stan Bach, Jr., for going out of his way to bring these slides to Omaha; and also to Messrs. Ronald Loch and Dale Haack of the U.N. Biomedical Research Lab. for their assistance in supplying most of the equipment for the demonstration.

I also trust that the 20 or persons who struggled with the cold, snow and icy streets found the program of some value.

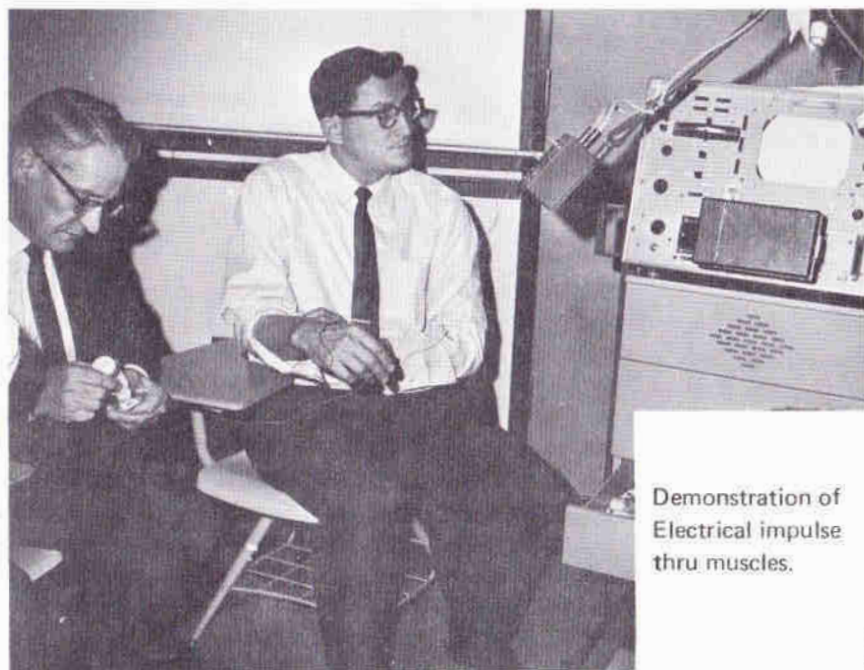
73, John Snyder, WØWRT  
\*\*\*\*\*



Dr. Stan Bach, WAØIIX, hosts January meeting at Methodist Hospital.



Bill Snyder outfitted with remote monitor for Electro-cardiogram.



Demonstration of Electrical impulse thru muscles.



Console in intensive care unit.

Remote equipment that sends signals to console. Each room has own unit.



**OFFICIAL BULLETIN NR 204  
FROM ARRL HEADQUARTERS  
NEWINGTON CONN JAN  
16 1969 TO ALL RADIO  
AMATEURS BT**

All amateurs are invited to participate in the 1969 ARRL International DX Competition, the first and third weekends of February and March. Full rules appear on page 64 of December QST. When requesting the new convenient logging forms please be sure to include your zip code along with your name and full mailing address. All forms are returned third class unless sufficient first class postage, a minimum of twelve cents, is supplied AR

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## PRESIDENT'S CORNER

Where does anyone's time go? I always wonder what happens to mine, in particular during the holiday season. I have been kicking around lately like a lost ball in the high weeds, getting nowhere. I had a round with the flu, (nothing exotic like Hong Hong) just the plain old flu so that didn't take very long.

We finally had our first Board of Directors meeting for the year and got most of the duties lined up. Some of the members going off the Board attended and the new Board was there, 100%. Everyone was very enthusiastic and I think the Club will benefit from this attitude on the Board.

I really enjoyed the regular January meeting with Dr. Stan Bach, WAØIIX, and John Snyder, WØWRT, at Methodist Hospital. Our thanks to them for a real interesting and enjoyable meeting. Attendance at the meeting was low, but that is the loss for those that did not attend; you missed a good one.

We hope to have good attendance at the next meeting (February) and it should be interesting. Most of it will be about the Club and Club projects. Everyone will be asked to take part and hopefully, they will. A few proposals that I have heard of so far that will come up for discussion are: Buy the old KETV tower for an antenna site; Build a Club House; Expand the Club; Buy a dry oil well, then dig it up and sell it as ready-made post holes; and a few other ideas. Be sure and come so you can support your favorite ideas that are brought

up. If your favorite isn't brought up, bring it up, it might be someone else's favorite, too.

73,

Royce E. Johnson, WAØKIL  
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## OFFICIAL BULLETIN NR 202 FROM ARRL HEADQUARTERS NEWINGTON CONN JAN 2 1969 TO ALL RADIO AMATEURS BT

New interstate tariffs filed by the various telephone companies with FCC have been allowed to go into effect as of January 1, 1969, though many matters remain in dispute. Devices such as phone patches will be permitted through an interface leased from the phone companies. Installation charges vary widely, but monthly rentals of the interface are expected to be about fifty cents. In some states, interstate tariffs paralleling the federal rates have not yet been accepted by the public utilities commission AR

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## NEW SECRETARY AND TREASURER

The new Board of Trustees of the Ak-Sar-Ben Radio Club, Inc. held its first meeting on January 7, 1969. In accordance with the Articles of Incorporation and Bylaws, the Board elected Connie Bowen, WAØMYF, as Secretary and Henry J. Dworak, WAØQLE, as Treasurer.

\*\*\*\*\*

**AK-SAR-BEN RADIO  
CLUB, INC.**

**Board of Trustees**

Anderson, James C. KØDNE  
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Lockwood, Robert C. WAØDHU  
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Phone: 451-7233 (Field Day)

Michel, Charles A. KØQVL  
2015 North 50th Street  
Omaha, Nebraska 68104  
Phone: 551-0085 (Program)

The above members are your Club's management team. Let them know your ideas and by working together make the Club better for all members.

\*\*\*\*\*

**OFFICIAL BULLETIN NR 203  
FROM ARRL HEADQUAR-  
TERS NEWINGTON CONN JAN  
9 1969 TO ALL RADIO  
AMATEURS BT**

A strike by dockworkers along the Atlantic and Gulf Coasts has caused suspension of all regular sea mail, including letters and QSL cards as well as packages and magazines, between the United States and Europe, Africa, the near east and the Caribbean islands. Sea mail to Central and South America, India, Pakistan, the far east and the Pacific continues to be handled through west coast ports. mail and air parcel post shipments are still being accepted to all points, and first class airlift mail to Puerto Rico and the Virgin Islands is still okay AR

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## CODE AND THEORY CLASSES

By Bob Lockwood, WAØDHU

The Ak-Sar-Ben Radio Club sponsored code and theory classes, held at the Red Cross Chapter House each Monday evening at 7:30 P.M., are in high gear. We have been conducting these classes since early in December. John Snyder, WØWRT, Jim Anderson, KØDNE, and Bob, WAØDHU, are the instructors.

We have access to training films from ARRL and have demonstrations conducted by the instructors. John, WØWRT, had a good demonstration of practical ohms law; Jim, KØDNE, had a good one on batteries and how they are made; Bob, WAØDHU, and Jim conducted a demonstration of inductors on January 27th. With the use of a scope, a clear look at inductive time constants was shown.

The code classes consist of the slow code group going for their novices, conducted by John Snyder; and the high speed class, conducted by Jim and Bob. A total attendance of between 20 and 25 students are showing rapid gain in both theory and code proficiency.

The classes will be conducted each Monday at 7:30 P.M. through April 7th. Those who wish to take advantage of these free classes are urged to attend. If anyone knows a non-member who would like to attend, invite him to come also. These classes are for anyone who would like to become an amateur or who would like to upgrade his present license. Ample free parking available.

A lot of effort is going into these classes by the instructors and there has

been fine cooperation from other sources, such as, the Red Cross for allowing us to use the Chapter House for our weekly meetings; from Father Haller, WØGPT, of Creighton Prep who supplied the class with the use of an instructograph, a code tape machine; from Erv Heinz, Dick Eilers, and other members of the Club, members of the Board, and many others. Yes, the list of those contributing to the success of these code and theory classes is long. A very sincere thank you is in order to those listed and to others who have helped make these classes successful.

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## OFFICIAL BULLETIN NR 205 FROM ARRL HEADQUARTERS NEWINGTON CONN JAN 23 1969 TO ALL RADIO AMATEURS $\overline{BT}$

Amateurs wishing to qualify for the ARRL Official Observer appointment should make note of the following Frequency Measuring Test. W1AW will transmit signals for measurement at 0230 GMT February 8 on approximately 3540 7030 and 14,118 kiloHertz. A second series of test signals will be transmitted at 0530 GMT February 8 on about 3547 7045 and 14,151 kiloHertz. Note that this is the evening of February 7, local time, for most United States and Canadian amateurs. Each participant reporting prior to February 19 will receive an individual report comparing the accuracy of his measurements with those of a professional frequency measuring laboratory. Further FMT details appear on page 95 of January QST  $\overline{AR}$

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# 1969 A. R. R. L. NATIONAL CONVENTION

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## Status Report on the Two Meter Repeater Station WØEQU

Back in the Spring of 1964 there appeared a story in Ham Hum entitled "Hamming up a Cold" by Ralph Erts, WØSMY. (Where's OM Ralph been lately - anybody know?) I have recently had the dubious pleasure of being off work with a cold and our Chief Editor suggested that maybe I could use the time to good advantage and send in some recent information on the Club's repeater.

Actually, Jim Droege, WØYCP, is the man in the know about the installation; therefore, we shall have to consult with Jim somewhat on this. At any rate we now have our special license for the repeater under the call WØEQU. Also, the code I.D. wheel has now been changed. There have been a few problems of a technical nature, e.g. with one of the control relays and in the 12 volt power supply.

As of this date, the 440 Mhz. control links haven't been set up because of time limitations plus very poor weather condx. I understand that Harold, WAØDGA, has some raw material for use in making the antennas for the 440 Mhz. links, but I have not learned just what type of antennas these will be.

For the benefit of those who may be new on the scene, I might add that our repeater is set up to receive on 146.34 Mhz. and re-transmit on 146.94 Mhz. FM of course. These frequencies are fairly standard all over the country, although there are many other fixed frequencies in use too.

A system such as this makes it very possible to communicate CAR to CAR over long distances, perhaps 60 or 10

more miles. It's not hard to see the advantage of a system like this compared to a simple 6 meter AM net operation such as we've used for years in the various drives, etc.

What are some of the problems to overcome? We definitely need more interest from Club members - as a matter of fact, several of the fellows currently using the repeater are from out of town and had brought their FM in from other areas where similar repeaters were in use. We need more older equipment, such as Motorola, General Electric, R.C.A., and others. I urge every Club member to make himself aware of this need and if some of this equipment should turn up for sale somewhere, then please make the fact known. Where can you expect to locate such gear? Well, in my own case the old Motorola txr. I'm using originally had been in service with the U. P. Railroad. My Mot. receiver came from a taxi company in Lincoln. There are numerous other sources.

Here is a listing of some of our local stations now on the FM frequencies: WØYCP, WØEGP, KØQVL, WØRMB, WAØDHU, K4STE/Ø, W8DZS/Ø, WAØDGA, WØWRT, WAØMFC in Lincoln, WAØKIL, WØYSX, WAØSCN in Papillion, WAØIIX, WØYZV, WAØNPF, and others. Sorry if I missed anyone.

I have just finished building a "time-out timer" and this device will be a part of the system also. Its function will be to place a limitation on long-winded QSO's and should help prevent any one person from tying the frequency too long at a time.

73, John, WØWRT

(Editor's Note: The repeater is in operation intermittently at the present

time and just as rapidly as we can solve some of the above mentioned technical difficulties with our control links, time schedules will be worked out with the control stations so as to be in operation during the normally active times. We hope to have a time schedule worked out by next issue of Ham Hum.)

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1/15/69

Gentlemen:

My neighbor Mr. Wm. Schiebur, 6102 Fontenelle Blvd., purchased a new G.E. Hi-Fi for Xmas. He has determined that my ten and fifteen meter sigs appear on his Hi-Fi, so

according to him, he asked some member of the radio club what to do about it, without contacting me first. This club member told him that "it was my responsibility to fix his Hi-Fi so it wouldn't reproduce my sigs."

I am doubtful that a member would be this ignorant, but rather believe that this neighbor exaggerated. In any event, our membership should be re-instructed as to a ham's responsibility and hopeful cooperation, when dealing with interference problems.

I have offered to assist this neighbor in the proper installation of 0.01 by-pass cap.'s, in the AC and spkr leads, etc.

73, Arthur Gaeth, WØFQB

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January 14, 1969

Ed., Ham Hum

Hi:

### WORK A NOVICE A DAY

How do you work a novice? You think it is easy? Try it.

So many fellows are saying that they have been away from the key so long it is hard to copy CW, and they want some practice. But the Novice Band is too crowded; that some of the Novices send faster than the Generals.

Listen in on the Novice bands, sometimes they seem dead. Like on 80 in the mid-morning. Give a call, real slow, 5wpm or less, you can always speed up if the guy you raise wants to. Wait at least 30 seconds for an answer after you turn it to one, they often have some complicated system of hand switches to throw, and besides, many of them are trying to read what they have written down from you. Sometimes it takes a minute for one to come back during a QSO. Take time when he turns it to you, before you come back to him, he still has those switches to throw, and get set to copy.

It is those beginners with no experience, poor receivers, who cannot buck the QRM and need your help. And they are looking for contacts during the dull time a band is normally not active.

Pick a time a band seems dead, call slow, wait and tune patiently, keep it slow during QSO, wait and wait for him to come back, and get a good supply of stamps, because you will finally be getting rid of those old unused QSL cards you ordered by the thousand when you first got your ticket.

Remember too, that Novice is not

just QSL card hunting. It is a real strain for him to try to communicate; he is in a sweat after he gives and receives a name, QTH, RST, Wx report. But keep trying, after a second or third contact with him he begins to open up, use the CW key for rag-chen

Pay your debt to those who work you as a novice; work a novice a day, and help Ham Radio keep those interested beginners on the air. Besides it is fun, and you are giving him as great a thrill as you might get working DX. And you will find it is just as difficult for you to work a novice as it is to work a rare DX.

73,

Dayton, WØVEA

(Editor's Note: Our thanks to Dayton for sending us the many items and articles for Ham Hum.)

(To Our Readers: It is our hope the above article will be read and practiced by some of you at least, and when you talk to the novice, invite him to our next Club meeting if he is in Omaha. If not, help him find a Club meeting near his own home town.)

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### PUBLIC RELATIONS

The value of good public relations for radio clubs cannot be stressed too strongly in maintaining a good image in any community. The type of relations that I refer to in this instance is not the dissemination of information but rather the day to day contact radio operators have with the general public. The operator with the "chip on the shoulder" attitude or with the "mightier than thou" complex has a rough row to hoe.

There are four "C's" in our association with the public that will go far in maintaining a good relationship

with the public. The first of these is consistency. Maintain the same general attitude every day...consistency of attitude, consistency of operation and consistency of helpfulness. If you are constantly discourteous you should change, but being consistent will let your neighbors and the general public know what to expect before they contact you.

The second "C" is Courtesy. Stressing courtesy and politeness is elementary, but unfortunately it is frequently overlooked. The author is well aware that working with the public can be extremely trying at times, but failure to be courteous is unforgivable. Learn to control your temper. "Flying off the handle" only does one thing...increase the tension.

The third "C" is communication. If you are trying out a new rig or installing a new antenna take that extra little bit of effort to let your neighbors know what you are doing. Explain to them that while you are taking every precaution to prevent interference, but that in the remote possibility they would have interference, you would appreciate it if they would let you know. The writer had been working on 15 meters for about 3 weeks when one of the neighbors saw him out in the yard and asked if he had been on the air lately. When he replied that he had, the neighbor stated that they had been having interference. When he asked the lady why she hadn't mentioned it before, she said: well, we know you like to enjoy your hobby too and we didn't want to bother you. When we explained to her that it was possible for her to watch television and for the writer to operate at the same time it

surprised her. (Merely cutting back the grid drive cured it!)

The fourth "C" is common sense. Use that gray material with which you are blessed! A good test of any association with the public is to mentally place yourself in the other person's shoes. How would you like to be treated under similar circumstances?

de The Ham Monitor  
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## The Owl Sez

### HUNGRY EYES!!

Whatsoever a man soweth, that shall he also reap. Truer words were never spoken, but what happens when a man does not sow at all?

In all of creation there is only a finite band of frequencies known to man that are capable of carrying electromagnetic waves from one spot to another, and we as hams have been very fortunate in having been given the privilege of using some quite large chunks of the available spectrum.

It is now becoming alarmingly clear, however, that many hungry eyes are on every available frequency above 30 MHz. TV broadcasters, Land Mobile Services, you name it, and all are desperately in need of more room. The Land Mobile Services are in such dire need that the FCC is looking with favor at a proposal by the mobileers that they be allowed to occupy unused TV channels in particular areas where their signals will not carry far enough to interfere with the same channel in other locations. Of course the broadcasters protested, but the FCC said that there WILL be sharing in the UHF regions at least.

Sharing is one answer to the problem, and it is being used extensively by the FCC at present by allocating blocks of frequencies to various users who are out of the line-of-sight of the other VHF/UHF users, but we have another factor to contend with now—the communications satellites—which, by their very nature, are not line-of-sight but do transmit their signals around the world. How do you share their frequencies? You don't!

One of the obvious sources of more room are the *unused* frequencies. Just how we hams have held on to our VHF and UHF bands so far is quite a mystery. Now is the time to start thinking about VHF/UHF—not after serious action starts. We should be using our higher line-of-sight bands for our local rag chews and for local traffic nets. We will get the same coverage with far less QRM.

How many of us are taking advantage of the fine 2 meter repeaters operating here in the valley? Their coverage is excellent! Using them is a thrilling experience! A couple of years ago your ed had a fb qso with a *mobile* on the San Francisco Bay Bridge from his *mobile* here in Fresno on 2 meters via the repeater of W6JPU and another repeater on the coast range. The signal went from my rig to Ralph's repeater at Meadow Lakes to the repeater on the coast range to the rig on the Bay Bridge! 100% land line copy both ways! What more could you ask for? That to me is exciting and shows the tremendous possibilities that are right here at our fingertips, but how many of us are taking advantage of these repeaters? How many of us even know they exist let alone on what

frequencies? (Perhaps we can get Ralph, W6JPU to give us a talk on this at a future club meeting. How about it Ralph?)

Using these frequencies also gives us a chance to do a bit of home-brew. The higher frequencies—220, 430, 1296, 2304 MHz, etc.—all offer much excitement to the ham—and plenty of challenge too.

What happens if a man does not sow at all? What is going to happen if we do not sow our signals on the VHF/UHF bands? Yes—you guessed it—WE WILL GET ABSOLUTELY NOTHING!!!!

hp cul on 2,304,000,007 cycles

THE OWL

de Skip, Fresno, Cal.

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### COMPARISON CHECKER FOR SOLID STATE By Dick Frederick, K4UGC

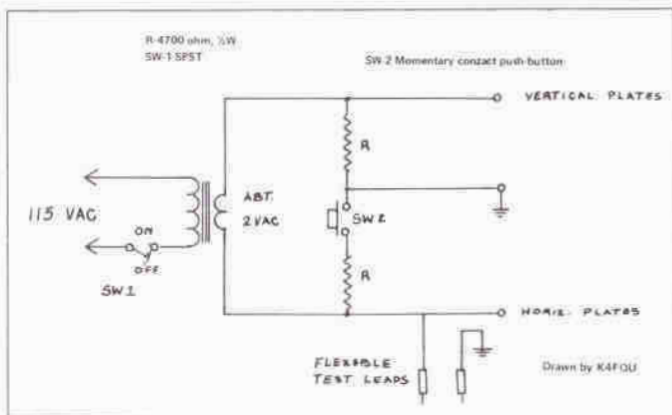
Solid State construction and the recent advent of Micro-Modular units has revived the old method of testing by comparing the good with the bad on an oscilloscope.

This simple adapter will allow a quick go-no-go check of components by checking the patterns on a scope providing one has a known good identical part to establish a standard by.

There is no shock hazard because the voltage is only a volt or two at the test probe points. Any old Audio output transformer which will furnish a couple of volts at secondary will work. Any two contacts upon surface will produce a picture for comparing. This will work on identical parts, groups of parts or circuit boards.

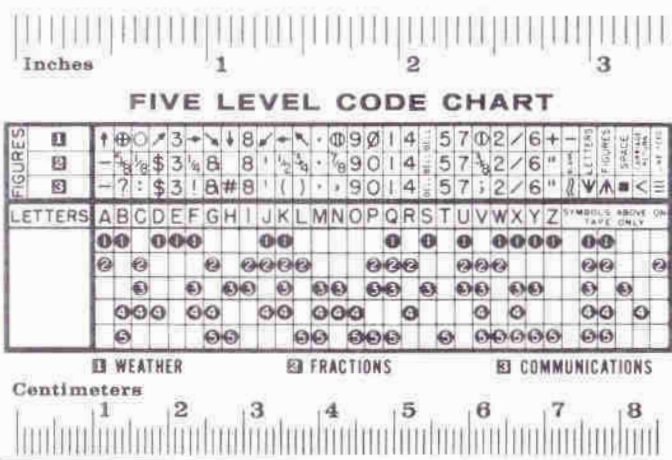
K4UGC

de Florida Skip



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- A HANDY RTTY CHART -



de Florida Skip

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What you don't know may not hurt you, but a person sure gets tired of listening to it.

\*\*\*\*\*

With money you may not be able to buy friends, but it will usually get you a better class of enemies.

\*\*\*\*\*

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