

**IN THIS ISSUE: HOW NEW RULES AFFECT YOU!**

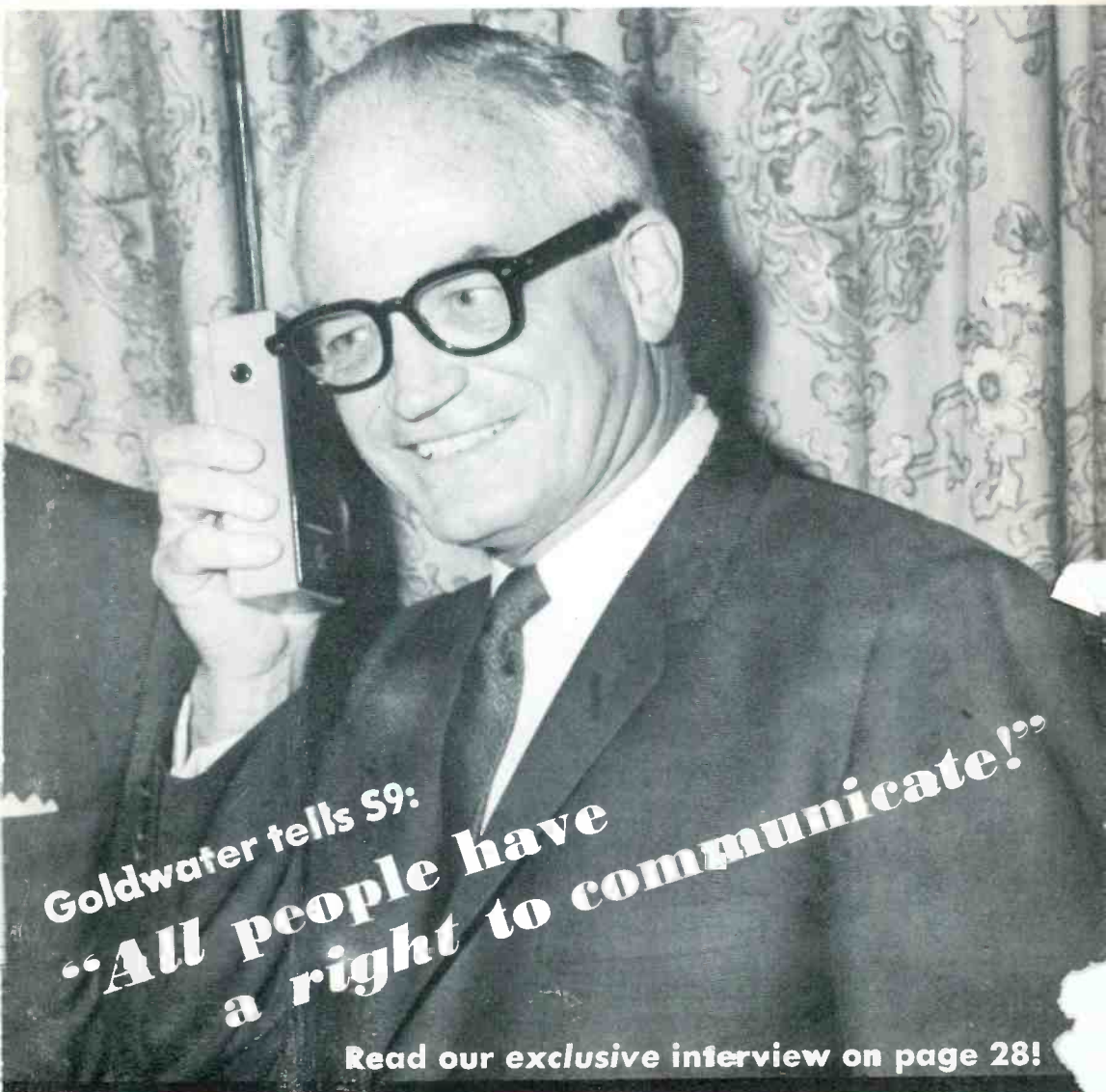
**S9**



OCTOBER 1964

50c

*the citizens band journal*

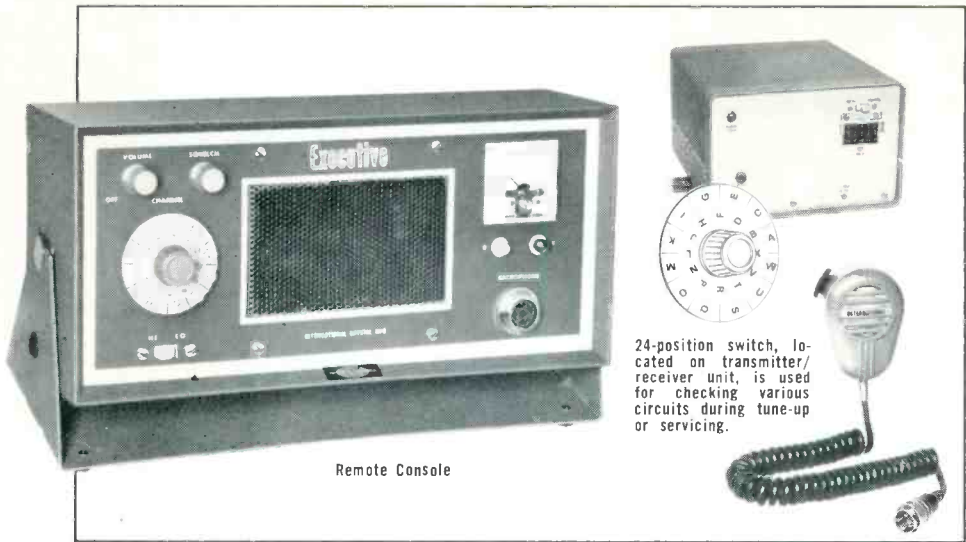


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**The OFFICIAL CB RADIO MAGAZIN**



Remote Console

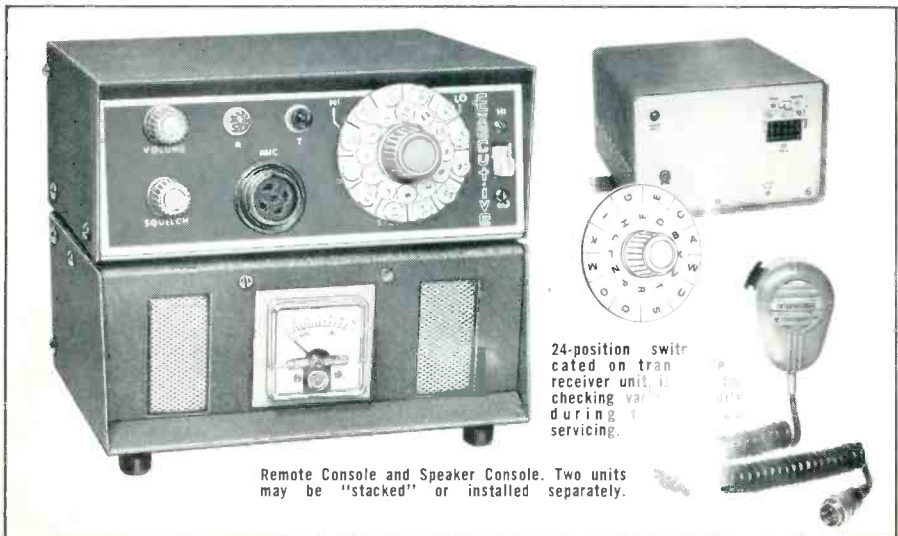
24-position switch, located on transmitter/receiver unit, is used for checking various circuits during tune-up or servicing.

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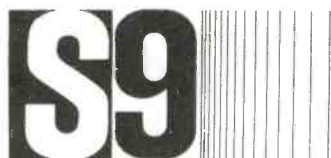
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| Receiver 1st Oscillator      | ● Transmitter Forward Power   |
| Receiver 2nd Oscillator      | ● Transmitter Reflected Power |
| Receiver 1st IF Amplifier    | ● Transmitter Modulation      |
| Receiver 2nd IF Amplifier    |                               |
| Receiver Detector            |                               |
| Receiver Squelch             |                               |
| Receiver Audio               |                               |
| Microphone Audio             |                               |
| Power Audio                  |                               |
| Transmitter Buffer           |                               |
| Transmitter Power Amplifier  |                               |
| Transmitter Oscillator       |                               |





*the citizens band journal*

Vol. 4, No. 10

October, 1964

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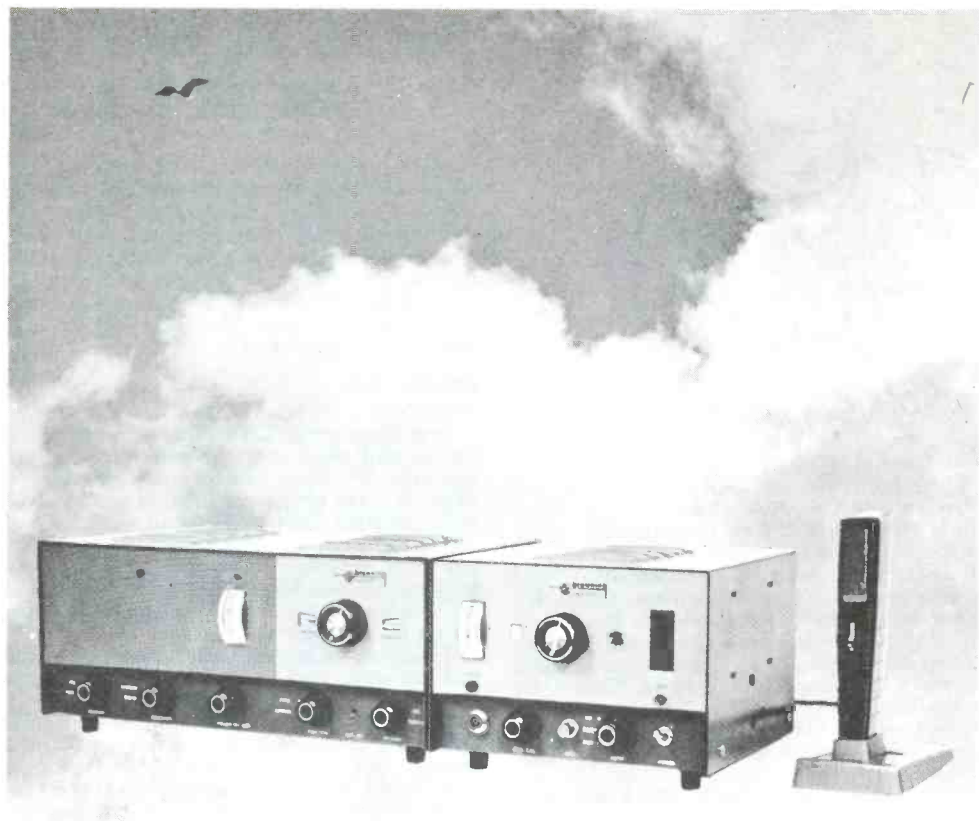
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# READER MAIL

Membership is FREE and is open to any S9 subscriber who asks for it, supplying with the request a self-addressed, stamped envelope and the address sticker from a recent copy of S9. Non-subscribers can join by writing to ACDA in care of S9 and condemning a detrimental CB organization. Members receive a wild and zany two color membership certificate which should drive guests out of the CB shack on short notice.

## HELP NEEDED

Dear Tom:

One of our young CB'ers was seriously injured on May 3rd when some dynamite exploded prematurely. He is 19 year old Bob Goodin, Jr., KGF0813, son of the chairman of our local CB club, 16Q2101. Bob's right hand was blown off above the wrist, his thumb was ripped off his left hand but the doctors were able to sew it back on. He was blinded by the explosion. Bob faces about 14 months of surgery, plus a long period of rehabilitation.

There was no hospitalization insurance as Bob had just started on a new job and he was automatically dropped from his father's policy in February on his birthday. I know that Bob would appreciate getting QSL cards and if any S9 readers are able to help out with a small contribution they would certainly be appreciated. We have taken up several local collections but this is a small town and the amount won't put a dent in the very large expenses. Please send any cards and contributions to Route 2, Rhinelander, Wisc. Bob's mom reads him his mail.

Stella Burbie, KGF2153  
Rhinelander, Wisc.

Dear Tom:

There has been considerable recent publicity about an article entitled "Did You Kill Him," which appeared in at least two other CB publications. The story concerned a doctor who used CB as his main means of communications, and because he couldn't reach his base station due to too many stations on the band, his patient died. I think he might have considered throwing a dime into a telephone to reach his office if someone's life hung in the balance. This is not to condone the unnecessary chatter one encounters on CB, but it seems that friend doctor might have thought of Mr. Bell's invention under the circumstances.

Stanley Schneider, KBI9512/WA2VDJ  
Bronx, N. Y.

## GUAM LICENSE PLATES



Tommy,

I thought that you would like to see the license plate I had while I was on Guam, it bears my CB callsign. The Guam Legislature passed an act to provide special plates for CB'ers. Perhaps this is a first in the U.S.

Art Kaler, ex-19W5437, ex-KIG0245  
South Orange, N. J.

## ACDA

Dear Sirs:

I would like to become a member of S9's Association To Condemn Detrimental Associations (ACDA). In my opinion this is one of the best ideas in CB I've come across. It will be my pleasure to display your horrible membership certificate on my shack's wall. Keep up the good work with your excellent S9.

H. D. Siegel, KDB8470  
Savannah, Ga.

## CLUB COMMENT

Tommy,

I read with interest the letter from Roger Mott, KHC2661 (July issue, page 4) about the ACBA. I'm a fellow member of Lakeland Citizens Radio Net, Inc. (LCRN). I'm sure that Roger has spoken for all of us. Since a visit to LCRN by the 18th District representative of ACBA, LCRN has been tagged as a bunch of "squares" by certain ACBA members in the Milwaukee area. So be it! I'd rather be a good square than a damned fool. We have come up with a rather apt name for this chronic group of complainers: *Always Comes Belly Aching!* Our club, for one, wants nothing to do with them.

Dick Kasprzak, KHC1999  
Madison, Wisc.

Mr. Kneitel:

I was a charter member of ACBA, due to lack of knowledge. I will join the ACBA again if they start doing what they are supposed to do. Until that time, I'm sorry, I can not with a clear conscience renew my membership with the ACBA.

Chuck Cunningham, KCJ4109  
Hinesville, Ga.



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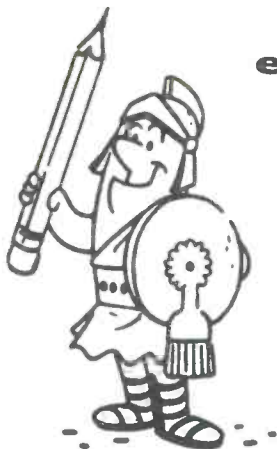


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editorial

# KBG4303 rides again!

by TOM KNEITEL  
EDITOR, S9

Club papers and bulletins are free to copy this editorial in whole or part, giving credit to S9 as the source.

## NEW FCC RULES: COMMENT

The FCC's release of their new CB rules (as reported last month in S9) came as no great surprise to anyone; it had been some twenty months in the stew pot. The rules were *revolutionary* only in the fact that cross talk between units of different licensees is now limited to 7 channels, with the remaining 16 channels allocated solely for talk between units of the same owner. Hobby use, which has always been forbidden on CB, is *still* not permitted, despite a number of user requests for the institution of this type of operation. The FCC said that legalizing hobby use of CB would not be in the "public interest, convenience and necessity."

There are a number of significant factors behind these new rules which should interest you. For one thing, the FCC had asked for public written comments on the proposals for these rules prior to their being finalized. What the FCC implied was that all of these comments would be seriously studied and then the proposed rules would be modified to conform with the best ideas submitted by the users of the service. This seemed to be a most thoughtful gesture, and would, after all, represent a cross section of the wants and needs of the users—certainly a big step towards serving the public interest, convenience and necessity.

In actuality, the FCC never is, or was, bound or obligated to use any of these comments for anything but wall paper for the wastebaskets—and this was never clearly understood by the 2,500 individuals and clubs who sent the Commission everything from postcards to multi-paged legal documents. Much of this material was considered by people within the Commission to be barely comprehensible, illiterate scribbling. This didn't help anyone's cause, and seemed to establish firmly in the minds of some Commission people that CB'ers were clods. In any event, the Commission didn't seem to take any heed of these comments as the final rules

were substantially the same as the original proposals of twenty months ago. Most of the 2,500 user comments suggested that the Commission institute some form of legalized hobby use, even to a limited extent.

The main point is that regardless of whether or not you agree with the strictly hobby aspect of CB, *there can be no denying that just about all of the emergency communications, life saving operations and road assistance work on CB is being carried out by the so-called hobbyists!* The "commercial" users do not have time or interest for this work.

It is also a fact of CB life that many operators have become so obnoxious to everyone in their area that they seriously cut into the maximum potentialities of the service, and gave it a bad name. Long winded tirades, obscene language, unnecessary breaking, and other antics (all monitored by the FCC) went into the FCC's decision to cut down on the number of channels for cross-station operation.

Now the FCC seems willing to risk the loss of many of the public service advantages of CB rather than to try to eliminate the small percentage of idiots who infest the CB channels.

While the new rules continue the policy of "no hobby use," I do not believe the FCC will suddenly be "out to get" the fellow who does a little harmless chit-chat with another local station on channels 9 through 14 or on 23. In the past they haven't gone after this type of operator in any big way, even though the rules said that this type of operating was not legal. In the past the FCC has concentrated on the habitual pains in the neck, the fellows with overmodulation, the off frequency stations, the over powered stations, the skip workers, and the more violent loudmouths. Of particular annoyance to FCC executives are the following: those who play *Bingo* via CB, the new breed of skip working morons who assign themselves "funny" nicknames to avoid detection (they are not as unknown to the FCC as they would like to believe, by the way), and the adolescents who sign their parents names to CB license applications to defraud the FCC.

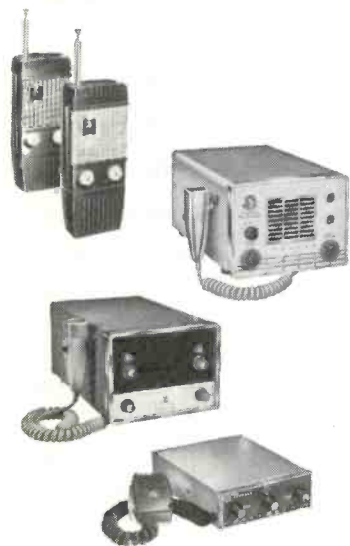
I do feel that the FCC is going to snap the whip, hard and fast, on crackpot operators

*Continued on page 64*

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# PHONE PATCHES & THE LAW

by MAURICE J. HINDIN, W6EUV

The new CB rules provide that manually operated telephone patches with your own mobile units are legal, but caution the operator to be aware of possible violations of local telephone company tariffs. It is the purpose of this article to keep you posted regarding some of these local regulations. A phone patch, by the way (in case you don't know) is a device which permits you, in your car, to place a regular land line call via the CB equipment of your base station.

K8G4303

The popularity of the phone patch and the increasing publicity regarding their use have given rise to speculation as to the actual legality of their use. Some research into the legal aspects of the use of phone patches indicates that their use does not come within the general scope of the application of legal principles discussed in previously published articles.

A point of departure is made at the outset since it does not appear that there are any FCC restrictions as such on the use of manually operated phone patches by CB'ers. The absence of a FCC regulation or prohibition does not mean that the CB'er can use phone patches without involving himself in serious legal entanglements. A different set of laws and regulations is applicable to the use of phone patches by CB'ers. The basic restrictions and prohibitions are found in the laws regulating commercial communication systems and are concerned primarily with the effect of commercial tariff regulations rather than the more well-known fields of law regulating radio communications.

A very brief resume of the applicable field of law is necessary in order to understand how the CB'ers use of phone patches is actually regulated. Under the *Communications Act of 1934*, all telephone companies handling interstate calls are required to file tariff schedules with the Federal Communications Commission.<sup>1</sup> When tariff schedules are filed with the Federal Communications Commission by the telephone companies, they become regulations

binding upon not only the telephone companies but the general public, and failure to comply with the requirements of the tariff provisions may subject the user to appropriate enforcement proceedings.<sup>2</sup>

Bearing in mind the fact that tariff schedule regulations are binding upon the users of telephone company equipment and that the use of telephone company equipment in violation of a tariff schedule subjects the user to penalties and other liabilities under the *Communications Act of 1934*, it is well to note the provisions of the so-called "foreign attachment" regulations which are found in virtually every telephone company tariff schedule. One typical foreign attachment provision reads as follows:

"Customers shall not use or permit to be used any electrical or mechanical apparatus or device in connection with service or facilities furnished by the telephone company without the written consent of the telephone company or permit the attachment of advertising devices except upon approval of the telephone company. In case any instrument, apparatus or device of any kind other than that furnished or approved by the telephone company is attached to or connected with any part of the telephone company's property, the telephone company reserves the right to remove such instrument, apparatus or device or to deny service so long as such instrument, apparatus or device is so attached or connected or to terminate the service."

Another typical foreign attachment provision reads as follows:

"Equipment, apparatus and lines furnished by the telephone company shall be carefully used, and no equipment, apparatus or lines not furnished by the telephone company shall be attached to or used in connection therewith unless specifically authorized in this tariff. When equipment, apparatus or lines furnished by the customer or subscriber are used in connection with equipment, apparatus or lines furnished by the telephone company, the equipment, apparatus and lines furnished by the customer or subscriber must be connected solely with the telephone company's system."

Similar tariff regulations are filed with the Public Utilities Commissions in the various states by telephone companies servicing primarily intra-state communications. The foreign attachment regulations have been uniformly approved by the courts and regulatory commis-

1. 47 U.S.C. section 151, ff.

2. See: sections 401 and 411 of the Communications Act of 1934, as amended.

47 U.S.C. sections 401 and 411.

See also: 11 FCC 1033, and Public Notice No. 60591 issued by Federal Communications Commission.

"On March 28, 1951 the Federal Communications Commission, in Public Notice 60591, used the following language:

"It should be noted that under the provisions of the Communications Act of 1934, as amended (47 U.S.C. §151 ff.), and Section 203 (47 U.S.C. §2033) thereof in particular, the tariff schedules filed with the Commission by the telephone companies are binding upon those companies and the public, unless and until they are set aside as unlawful by this Commission or a court of competent jurisdiction. Accordingly, failure to use recording devices in compliance with the requirements of such tariff provisions may subject the user to appropriate enforcement proceedings provided for in Section 401 and 411 of the Communications Act (47 U.S.C. §401 and 411), as well as termination of his service by the telephone company."

sions.<sup>3</sup> The Federal Communications Commission has authority to limit the operation and application of tariff provisions and has been called upon to pass upon the reasonableness of the foreign attachment provisions of several telephone companies' tariff schedules.<sup>4</sup>

### DIFFERENT PATCHES

Bearing in mind the foregoing basic legal considerations, it is well now to see just how the use of phone patches is related to existing tariff regulations. Phone patches presently in use appear to fall into three classifications. The first is the inductive type in which there is no direct connection with telephone company lines or instruments. The second is a patch in which a mechanical connection is made to the telephone company equipment but no direct electrical coupling is effected, the coupling being made by induction only. The third type is one in which a direct electrical connection is made with telephone company lines or equipment.

Reduced to its simplest terms, the problem is whether or not a phone patch is a "foreign attachment" within the meaning of the existing tariff regulations. If it is a foreign attachment, then it can only be legally used with the express consent and knowledge of the telephone company which services the station using it. Use of a phone patch without permission may subject the user to penalties, loss of telephone service, additional charges or other liability under sections 401 and 411 of the *Communications Act of 1934*.

### LEGAL PRECEDENTS

Two cases involving the foreign attachment provisions of telephone company tariff schedules provide some precedent in this connection. They are the *Hush-A-Phone* case and the *Jordaphone* case.<sup>5</sup> In both of these cases the reasonableness of the so-called "foreign attachment" provisions of the tariff schedules was attacked, and in both of these cases the Federal Communications Commission ruled that the foreign attachment provisions were reasonable and enforceable. The *Jordaphone* case is particularly significant because of the broad scope of the language of the particular foreign attachment provision therein

involved. That provision read as follows:

"No equipment, apparatus, circuit or device not furnished by the telephone company shall be attached to or connected with the facilities furnished by the telephone company, whether physically, by induction or otherwise, except as provided in this tariff. In case any such unauthorized attachment or connection is made, the telephone company shall have the right to remove or disconnect the same or to suspend the service during the continuance of said attachment or connection or to terminate the service."

In the *Jordaphone* case, the Federal Communications Commission was called upon to consider the reasonableness of the action of the telephone companies in refusing to permit the use of an automatic telephone answering device. The telephone companies refused to permit the use of the device, holding that it was a foreign attachment, within the meaning of the tariff schedule. In this case there was an electrical and mechanical connection between the telephone company's equipment and the telephone answering device in question.<sup>6</sup>

In the *Hush-A-Phone* case, the telephone companies refused to permit the attachment of a mechanical sounding chamber which was attached to the microphone of the telephone. No electrical connection was involved. The Federal Communications Commission also upheld the telephone company's contention that this constituted a foreign attachment and that as applied in this situation, the foreign attachment provisions of the tariff schedules were reasonable.

Based upon these related precedents, it is the author's opinion that the phone patch as commonly used by CB'ers is clearly a foreign attachment within the meaning of the tariff regulations if there is a direct electrical or mechanical connection between the phone patch and the telephone lines or instruments. It may be considered a foreign attachment even if there is no direct electrical or mechanical connection but is merely inductively coupled if the tariff provisions of the particular telephone company involved make reference to prohibition of inductively coupled appliances.<sup>7</sup>

### CONCLUSIONS

In the light of the foregoing discussion, several suggestions might be considered to prevent legal complications where phone patches are used. They are as follows:

1. IF POSSIBLE, GET WRITTEN PERMISSION FROM THE TELEPHONE COMPANY TO USE THE PHONE PATCH.

6. The Whole question of the use of recording devices in connection with telephone service is considered in FCC Docket No. 6787.  
7. The tariff regulation in the *Jordaphone* case specifically made reference to inductively coupled attachments.

3. See *Northeastern Telephone & Telegraph Co. v. Department of Public Utilities*, 262 Mass. 137; 159 N.E. 743.  
*Gardner v. Providence Telephone Co.*, 23 R.I. 262; 49 Atl. 1004.

4. *City of Los Angeles v. Southern California Telephone Co.*, 2 P.U.R. (N.S.) 247.

4. See: FCC Docket No. 6787 re: Use of Recording Devices: *Jordaphone Corporation of America, et al. v. American Telephone & Telegraph Co. et al.*, Docket No. 9383; *Hush-A-Phone Corporation et al. v. American Telephone & Telegraph Co.*, Docket No. 9189.

5. *Hush-A-Phone Corporation & Harry C. Tuttle v. American Telephone & Telegraph Co.*, FCC Docket No. 9189; *Jordaphone Corporation of America & Mohawk Business Machines Corporation v. American Telephone & Telegraph Co.*, FCC Docket No. 9383 and Docket No. 9701.

If the local telephone company does not cooperate, contact the local Civilian Defense Coordinator. The use of phone patches has a distinct Civil Defense use, and the CB'ers request, coupled with a recommendation from the local Civilian Defense Coordinator, will probably turn the trick.

2. HAVE THE TELEPHONE COMPANY MAKE THE LINE OUTLET CONNECTION OR INSTALL AN APPROPRIATE LINE OUTLET JACK FOR USE WITH THE PHONE PATCH.

(Incorrect installation procedure which fouled up the telephone company's local circuit has caused trouble in several instances).

3. REQUEST THE LOCAL TELEPHONE COMPANY TO RUN LINE TESTS TO DETERMINE IF THE PATCH AS INSTALLED IS CREATING ANY LINE INTERFERENCE.

On several occasions where this technique was followed, the telephone companies cooperated fully without any questions as to the validity of the patch.

4. BE SENSIBLE IN CONNECTION WITH THE USE OF THE PATCH.

The telephone companies are charged by law with maintaining high efficiency in connection with their lines. If the phone patch interferes with their service or is the source of complaints, they will take steps to abolish their use. Clearly they have the power to forbid the use of patches. So far, most telephone companies have cooperated and have been reasonable.

5. IF ALL ELSE FAILS, REQUEST THE TELEPHONE COMPANY TO MAKE AN APPROPRIATE CHARGE FOR INSTALLATION AND USE OF THE PATCH IN ACCORDANCE WITH THEIR TARIFF SCHEDULES.

Since the basic function of the telephone company is to earn a reasonable return on their investment, there should be no logical reason why they would object in the last analysis to render this added service at a moderate fee. It would still be cheaper to pay the telephone company's charges rather than litigate the matter through commissions and courts.

The basic theory underlying the prohibition against foreign attachments is to give the telephone companies the right to control the equipment used in connection with or connected to their service systems. Inherent in the foreign attachment prohibitions is the right of the telephone companies to permit the use of such equipment as in their opinion will not harm or interfere with their existing facilities. Likewise, since the telephone companies themselves prepare and file their tariff schedules, subject of course to direction of the appropriate regulatory commission, specific foreign attachments, such as the phone patch, can be expressly exempted, or in the alternative, authorized subject to a fixed installation charge. Since the

use of phone patches definitely contributes to the effectiveness of the Citizens Radio Service, it is entirely foreseeable that tariff regulations in the future may specifically make reference to the use of such patches.

#### EDITOR'S NOTE:

Recent information at hand has added the following points which should be carefully regarded when a phone patch is in operation.

1. It is reported informally that the dialing clicks are not to be put on the air and that at least one "pink" ticket has been issued for this offense. While at first thought this may seem unreasonable, a little reflection will show that a recording of the dial clicks could be used to determine a phone number.

2. On long distance calls, or when a telephone call is placed through an "Operator" be sure that her voice does not go on the air. We are given to understand that the telephone companies do not feel too kindly on this particular point.

3. When the desired party has been contacted on the telephone, be sure to emphasize to them that they are going to be broadcast and that what they may say will be overheard by many people. It is possible that a technicality could be raised if you put a party on the air without their expressed agreement.

S9

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# The CLOBBER STICK

A GIANT MOBILE ANTENNA WITH GIANT PERFORMANCE

by GEORGE H. HULSE, KBI0561



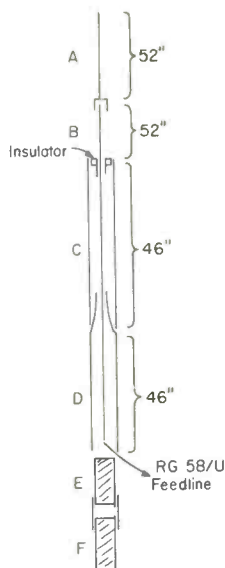
Here is my car with the Clobber Stick in place, jutting through the rear window. Driving with this sticking out of the window is a risky business.

You may be interested in my portable/mobile CB antenna, a dilly of a sky hook which I designed myself.

The results are almost as good as a base station, giving a solid 35 to 40 mile range. When not in use it fits snugly in the mobile unit's trunk—ready to be assembled at a moment's notice should I want to reach my base station and find that I am out of range with a regular mobile antenna. With the slip joints I have made, the *Clobber Stick* takes but a few minutes to assemble from its 52-inch sections. It weighs only about 3 lbs.

## CONSTRUCTION

For the topmost sections (A and B) I used parts from an old ground plane antenna. Any 102 inch steel whip will do if cut and threaded in the center for folding up. You might want



to use a 102 inch telescoping whip.

The 102 inch top section rests on an insulator made from a socket for a PL-259 coaxial connector. The insulator is pressed tightly into the top of section "C." The RG-58/U coaxial feedline is attached to this point, center conductor carefully insulated from section "C" and attached to the PL-259 socket so that it will make a good contact with section "B" when in use. The shield of the coax is soldered to section "C."

Sections "C" and "D" are two 45 inch sections of 1/4 inch TV masting with a slip joint to hold them together.

Sections "E" and "F" are merely wooden support poles to elevate the antenna to the best height, but in no event should they elevate the top of the antenna more than 20 feet above the car top. The antenna itself is slightly more than 16 feet high.



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the *professional touch* to dress up  
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M-124

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CB ANTENNAS

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# Scalp the Tennessee Valley Indians



by LOUIS EPSTEIN, KHA7754, K9REN

... FREE!

Perhaps you've tried all of the tricks of the trade to cure a difficult case of CB caused television interference; but, alas, the horrid modulation bars flicker across the picture and your voice still competes with Johnny Carson's. What to do? In the very first issue (July, 1962) of S9 Magazine, the Editors thoughtfully provided data on how you can obtain FREE TVI filters from manufacturers, this is an expanded and up-to-date compilation of similar data.

## CAUSES

It must be remembered that if you are more than 50 miles from the TV station you are trying to receive, it is going to be pretty difficult to filter out all interference. This can be attributed to the high degree of amplification that is required. The FCC recognizes this fact and suggests the fullest cooperation of all parties concerned.

The basic cause of 95% of the TVI today (CB caused TVI, that is) has been determined to be due to the inability of the TV receiver to reject unwanted CB signals completely away from the channel to which it is tuned. The TV sets are unable to reject these signals because the manufacturer left out some vital parts and, in some cases, some vital engineering. The necessity of these missing parts and engineering has been widely known in the radio engineering field for several years. The FCC itself realizes the poor selectivity of TV receivers and never assigns TV stations operating frequencies adjacent to each other (in the same city) because the receivers

could never sort out one signal from the other.

There is no reason for the serviceman or the CB'er to be required to purchase the parts and engineering which the manufacturer left out. Servicemen cannot be expected to make a TV set perform better than it did when it came from the factory, and he should not be permitted to make any modifications to the set's circuitry which are not factory approved. The best way out for a serviceman who is faced with a ticklish TVI problem is to pass the buck to the CB'er or ham down the street—and no ham or CB'er will normally want to tinker inside of a neighbor's TV set.

Fortunately, all is not lost provided you are able to get reasonable cooperation from the TV set's manufacturer through the dealer who sold the set. In nearly every case the TV set can be made to function properly by the use of a *High Pass Filter* device installed properly by someone who knows what he is doing. The manufacturer has a moral (and sometimes legal) obligation to furnish these filters so that his products will function properly. That is, of course, the way it should be.

There are some 700,000 CB transmitters in the United States, and many millions of TV receivers. Your CB transmitter will likely at one time or another, be accused of creating interference on one or more of these TV receivers. Keep our list handy—rip it out of S9 if you feel that someone might borrow your copy or it might otherwise stray off. We have also included certain policies of the various manufacturers which bear upon their furnishing the filters.

**ADMIRAL SALES CORP.**, 903 Morrissey Drive, Bloomington, Ill. Att.: Mr. Henry Lopez, Parts Dept.  
A-B-C-D-G (\$1)-H ('46-'63)-I.

**AIRLINE**, Montgomery Ward Customer Serv. Dept., 619 W. Chicago Ave., Chicago, Ill. 60607.  
Att.: L. Fuson. A-B-C-D-F-G-H (first year of purchase only)-I.



**DuMONT-EMERSON TV**, 524 West 23rd St., New York, N. Y. Att.: Jerome Roth. A-B-C-D-I.

**EMERSON** (see DuMONT).

**GENERAL ELECTRIC**, Building 5, Electronics Park, Syracuse, N. Y. Att.: Customer Relations, TV Receiver Dept. B-C-D-F-G-H.

**HOTPOINT** (see GENERAL ELECTRIC).

**MAGNAVOX**, Customer Relations Dept., 2131 Bueter Blvd., Ft. Wayne, Ind. B-C (and date purchased)-D-F-G-H (1956 up).

**MOTOROLA**, Contact nearest dealer.

**MUNTZ TV**, 1020 Noel Ave., Wheeling, Ill. Att.: Tom Duvall, Ch. Engr. A-B-C-D-F-G-H-I.

**PHILCO**, Plant 3, "C" & Westmoreland Sts., Philadelphia 34, Pa. Att.: Miss Patricia Peller, Consumer Service. A-B-C-D-F-G-H.

**RCA**, Contact your nearest RCA Factory Service office.

**SENTINEL**, (see MAGNAVOX).

**SILVERTONE**, Sears-Roebuck Co., 3333 W. Arthington St., Room 311, Chicago, Ill. 60607. Att.: L. S. Sheperd. A-B-C-D (or nearest Sears store)-F-G-H (1950 up).

**SPARTON**, (see MAGNAVOX)

**SYLVANIA**, 700 Ellicott St., Batavia, N. Y. Att.: V. Koch, Serv. Dept. B-C-D-F-G-H.

**TRAVLER RADIO CORP.**, 571 W. Jackson Blvd., Chicago, Ill. 60606. Att.: Mr. Herman Feldman, Serv. Dept. B-C-D-F-G-H.

**WELLS-GARDNER**, 2701 N. Kildare Ave., Chicago, Ill. 60639. Contact dealer where set was purchased.

**WESTINGHOUSE**, TV & Radio Division, Metuchen, N. J. Att.: Mr. Horstmann, Mgr. Field Service. Customer must originate letter giving name and address, date of purchase, dealer from whom purchased, model and serial number of TV set in question, and type of interference in question.

**ZENITH**, Contact nearest Factory Sales & Service office.

TV manufacturing companies out of production are: CBS-TV, Crosley, Lion, Majestic, Meck, Raytheon, Scott, Stromberg-Carlson, Hoffman, Stewart-Warner, Trans-Vue.

#### CODE DATA

**A**—Give callsign of CB station being heard on TV set.

**B**—Give customer's name and address.

**C**—Give model and serial number of TV set.

**D**—You must write by letter to request filter.

**F**—Company will send Drake filter or their own unit.

**G**—No charge for filters, unless shown.

**H**—Filters will be supplied for all years' models, unless specified.

**I**—A statement from the CB'er or CB Club TVI Committee to the effect that, to the best of your knowledge, the TVI is not being caused by spurious oscillations or harmonics from the CB transmitter.

Note: While every effort has been made to keep this information current and correct, S9 can assume no responsibility for errors or omissions, as the type of material contained herein is subject to periodic changes.



# A Better Gooney Box

## IMPROVING GONSET VARIABLE TUNING

by BOB KUEHN, 16Q0744

Judging by the number of Gonset G-15 CB transceivers we have seen with reworked receiver tunable oscillator circuitry, this feature seems to be giving users and technicians alike a hard time generally.

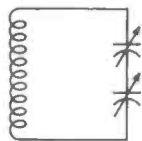
Such a device is difficult to engineer in the first place because the relatively high frequency of 27 mc makes it prone to instability due to heat, humidity and vibration, and because of the narrow channel separation the dial markings can be only approximate at best.

The type of bandspread used in the G-15 (parallel) seems to give rise to the most common complaint—the channels being squeezed together and not covering the entire dial.

Parallel bandspread works fine on the BC band where every technician knows how to track a receiver by adjusting the inductance at the low end and the capacity at the high end. However at CB frequencies the values of C and L are decreased by a factor of about 50 and adjustment becomes correspondingly more difficult or, practically speaking, impossible.



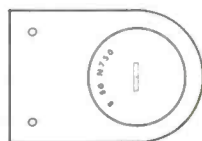
Parallel Bandspread



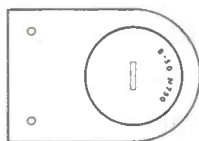
Series Bandspread

But there appears to be a better way—series bandspread. In this scheme a trimmer capacitor and a variable capacitor are placed in series across the terminals of the oscillator coil. With the trimmer at minimum capacity bandspread will be at a maximum and the dial may cover only a few channels. Conversely, with the trimmer at maximum, all of the channels will be squeezed into only a portion of dial rotation. While the proper amount of spread is being achieved by adjusting the trimmer, the band is kept centered on the dial by small variations of the oscillator coil tuning slug.

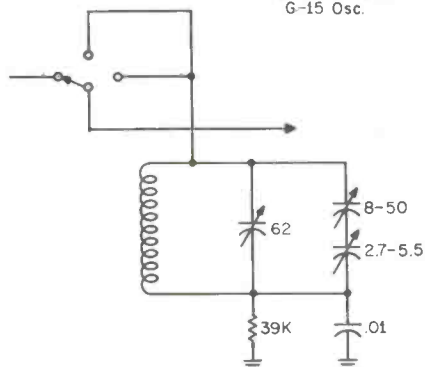
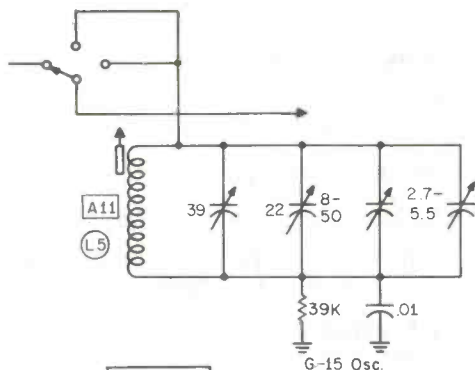
As received from the factory, the G-15 oscillator coil has four capacitors across its terminals—one each 39 mmf and 22 mmf fixed, and 8-50 ceramic trimmer and the 2 plate variable tuning capacitor. If this original setup has been altered, the two fixed units can be replaced by a single 62 mmf silver mica or other zero drift capacitor.



Trimmer Set at Min.



Trimmer Set at Max.



as Modified

The 8-50 mmf trimmer, however, should be an exact duplicate if it is missing, and this is the one which is used as the series adjustable trimmer.

It may be mounted as shown in the diagram by soldering one terminal to the variable tuning capacitor and the other to the heavy bus wire, which is previously unsoldered at this point and bent about one half inch toward the rear of the set.

It will probably be necessary to touch up the oscillator tuning slug very slightly after returning the set to the cabinet, through the hole provided in the bottom for that purpose.



**UNITED SCIENTIFIC LABORATORIES, (KKD5719)**

Sales Dept., 35-15 37th Avenue, Long Island City 1, New York

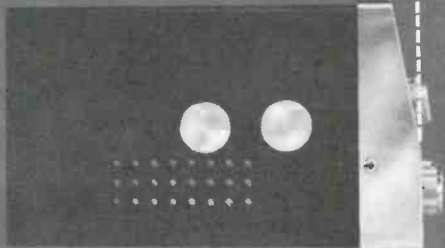
Please send your colorful giant-size USL QSL card with data on your **CONTACT!** rigs.

Name..... Call Sign.....

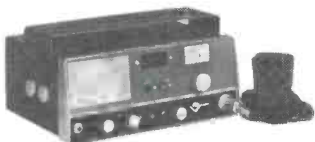
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Illuminated, angled front panel.

All 23 channels crystal controlled,  
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Mechanical band pass filter.  
Built-in speech compressor.  
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Modulation indicator.  
Transistorized power supply  
12 V and 110 V.  
Cigar lighter plug in.  
Electronic switching.  
Earphone jack.  
PA system jack.  
Complete with: microphone, cords  
and snap lock mounting brackets.

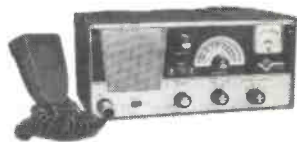


### USL CONTACT!—8

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Illuminated, angled front panel.

23-Ch. tunable receiver—  
illuminated dial.  
8-Ch. crystal-controlled  
transmit & receive.  
1-Ch. external crystal socket—  
transmit & receive.  
Transistorized power supply.  
Illuminated S & RF meter.  
Crystal spotting.  
Electronic switching.  
PA system jack.  
Complete with: microphone, cords,  
1 pair of crystals and snap lock  
mounting brackets.  
Cigar lighter plug-in, easy to install.  
Nuvistor low noise front end.



### USL T 1050 A

\$119.95

23-Ch. tunable receiver—  
illuminated dial.

6-Ch. crystal-controlled  
transmit & receive.  
Illuminated S & RF meter.  
Crystal spotting.  
Earphone jack.  
Nuvistor low noise RF front end.  
6 V or 12 V power supply available  
(optional extra).  
Unit comes complete with: micro-  
phone, AC and DC cords, 1 pair of  
crystals and mobile mounting brackets.  
Squelch & full series noise limiter.  
TVI trap.  
Signal-to-noise ratio: better than  
10 db at 1 microvolt.  
Full plate modulation.



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*Division of Vernitron Corporation*

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# WILL SUCCESS SPOIL THE *Courier 23*



**\$189<sup>50</sup>**

slightly higher west of Rockies including all crystals, mounting brackets, power cords and noise-cancelling microphone.

Not on your life! We've just moved into our new plant and office building—4 times our present size. Our record of CB achievement includes the fabulous Courier 1M, the Fleet Courier, and now the Courier 23. Soon, we'll be releasing the remarkable Courier 12 to fill

many new demands. In all, e.c.i. is the nation's leading source of Citizens Band and Business Band equipment. Will success spoil the Courier 23? Not so long as we continue to do our best to bring you real value at lowest possible prices.

See your e.c.i. dealer or write direct for details on all e.c.i. products.

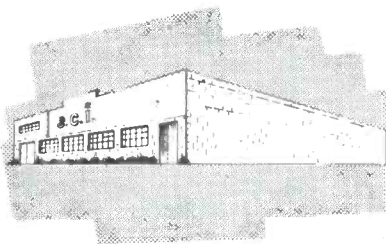
e.c.i. electronics communications, inc. dept. 9  
56 hamilton ave.,  
white plains, n. y.

Gentlemen:  
Please send me literature on e.c.i. CB equipment.

name .....

address .....

city ..... zone ..... state .....



electronics communications, inc. 56 hamilton ave., white plains, n. y.

# Build The PART 15 DELUXE

## A LEGAL HOBBY CB TRANSMITTER TO BE USED WITH YOUR PRESENT RIG'S RECEIVER!

BY HARTLAND B. SMITH, CENTRAL 11, 19W1375, W8VVD

**WARNING**—Don't sell a 100 milliwatt Part 15 rig short! Flea power operation can prove not only interesting, but also very effective. It will allow you to *legally* use CB as a hobby and surprising as it may seem, the signal from a 100 milliwatt rig, other factors being equal, will compare quite favorably with that produced by a top quality 5 watt transmitter. As a matter of fact, when a 5 watt transmitter sends your receiver S-meter to the 10 db over 9 mark, you can reduce power to 100 milliwatts and still push the needle way up to S-8, a mighty usable level.

What about fringe performance, though, when even a 5 watt phone signal gets a little puny? Surely, you say, a Part 15 unit will prove useless under these conditions. That's where you're mistaken. By switching to CW, a form of operation permitted license-free rigs, you'll easily make the grade, since only a fraction of a watt on CW is equivalent to a full 5 watts of AM phone, at least as far as readability is concerned.

You still don't believe me? Well, how about duplicating the Part 15 Deluxe? Then you can prove or disprove my statements, once and for all, to your own satisfaction. Designed to achieve the finest possible performance, while still complying with all provisions of FCC's Section 15.205, this little device can be readily constructed by just about anyone who can stumble through a schematic and heat up a soldering iron.

### DESCRIPTION

The transmitter, proper, consists of a 12DU7 crystal oscillator, followed by a 12DU7 power amplifier, enclosed

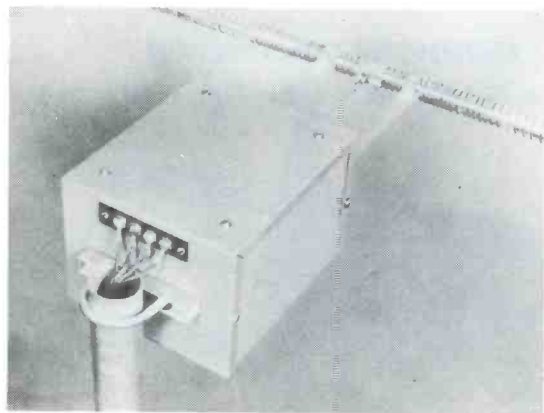


Fig. 1. Light enough to be supported by a single U-bolt, the *Part 15 Deluxe* may be mounted high on a mast or tower to insure maximum transmission range. A short length of electrical tape can be applied to the terminal strip to protect it from rain or snow. Running the 4-wire power cable down the center of the mast makes for a neat appearing installation.

in a 6"x5"x4" *Minibox* perched atop the tallest pole purse or the local building inspector will allow. By mounting the RF generating components high in the air, right at the antenna, feedline losses are circumvented, an important consideration when you're working with milliwatts.

Vacuum tubes, rather than transistors, are used in the transmitter because of their heat generating properties. During damp, foggy weather, quite a bit of moisture will condense on the parts inside the *Minibox*. Thanks to the 6.3 watts dissipated by the tube heaters, any moisture which does accumulate is soon vaporized and driven out.



Fig. 2. This combined modulator/power supply may be located at any convenient operating position.

The combination modulator/power supply shown in Fig. 2 may be installed at any convenient operating position. Interconnection between it and the transmitter is accomplished by means of 4-wire TV rotor cable.

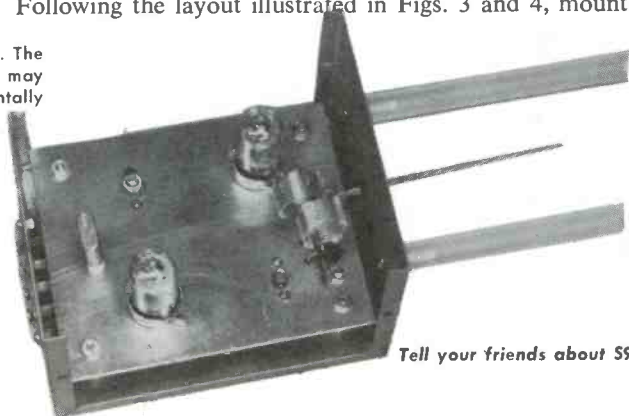
V<sub>3</sub>, a 12AX7 dual triode serves as speech amplifier, while the single 2N1375 transistor acts as modulator. Silicon rectifiers, D<sub>1</sub> and D<sub>2</sub>, are used in a voltage doubling circuit that converts the 12.6 VAC supplied by T<sub>2</sub> to 30 VDC. R<sub>12</sub> drops this voltage sufficiently to prevent V<sub>2</sub>'s input from exceeding 100 milliwatts, no matter how C<sub>5</sub>, L<sub>3</sub> and the antenna are tuned.

A convenient check on transmitter operation is supplied by meter, M<sub>1</sub>, which indicates V<sub>2</sub>'s combined plate and screen currents. Any change from the normal reading of approximately 6 ma. will alert the operator to a component defect or adjustment shift.

### TRANSMITTER CONSTRUCTION

Following the layout illustrated in Figs. 3 and 4, mount

Fig. 3. Transmitter with cover removed. The center-fed five foot antenna element may be mounted either vertically or horizontally to provide the desired polarization.



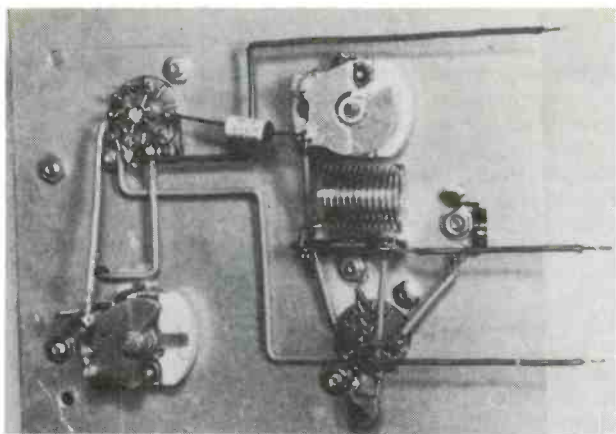


Fig. 4. Bottom view of transmitter chassis.

the components on the  $4\frac{1}{2} \times 5\frac{1}{2}$ " piece of aluminum which serves as a chassis. Bakelite terminal strips support the three coils. A two lug strip is sufficient for  $L_1$ , while a 4 lug strip is used for  $L_2$  and  $L_3$ . Fasten the chassis to the box with 4  $1\frac{1}{4}$ " 6-32 screws which pass through 1" metal bushings or spacers. The 4 screw heads may be seen protruding through the top of the box in Fig. 1. You will note that after assembly has been completed, the tubes and crystals hang upside down in their respective sockets.

The FCC's Part 15 antenna limitation—"A single element that does not exceed 5 feet in length"—precludes the use of a high gain multi-element array. However, despite this restriction, it is still possible, with a little extra effort, to fabricate an efficient radiator similar to the one detailed in Fig. 5.

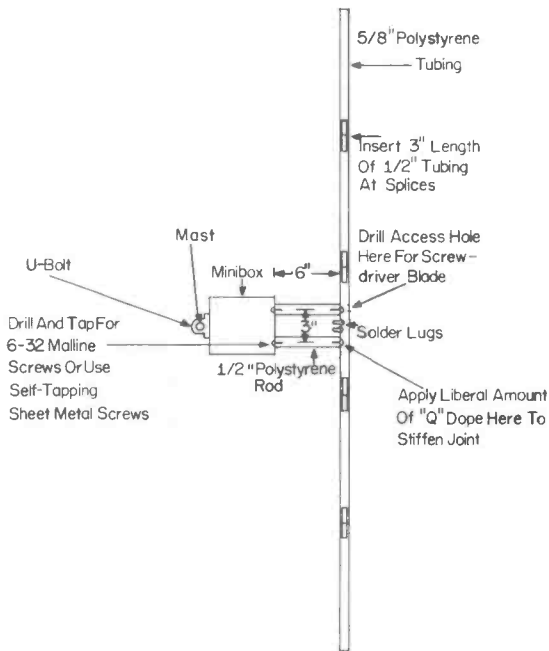


Fig. 5.

Five eighth in. o.d. polystyrene tubing serves as the form on which a continuously loaded antenna is wound. Since a 5 foot piece of tubing isn't easy to procure, you'll probably have to splice together 5 one foot sections to obtain the required length. Insert 3" pieces of  $\frac{1}{2}$ " tubing at each splice. When dry, the two sizes of tubing will not telescope. After you've applied a liberal amount of polystyrene cement or "Q" dope to both, however, the plastic surfaces will soften sufficiently to permit you to push the smaller tubing into the larger one.

Install two solder lugs at the center of the plastic tube, as shown in Fig. 5. Also drill holes for the screws which fasten the antenna to the 6" poly rod stand-off supports. Clean the insulation from one end of a 12 foot length of No. 20 enameled wire and solder it to one of the lugs. Start winding the wire from the center toward the end of the tube. Space the turns approximately a half inch apart. When you run out of wire, you should be pretty close to the tube's end. Tape the wire at this point to prevent it from unwinding. Attach a second 12 foot length of wire to the other lug, and wind on the rest of the antenna. Be sure that this second coil is wound in the same direction as the first one. That is, if the first coil is wound clockwise, wind the second one clockwise, also. Do not cement the antenna wire to the tube at this time.

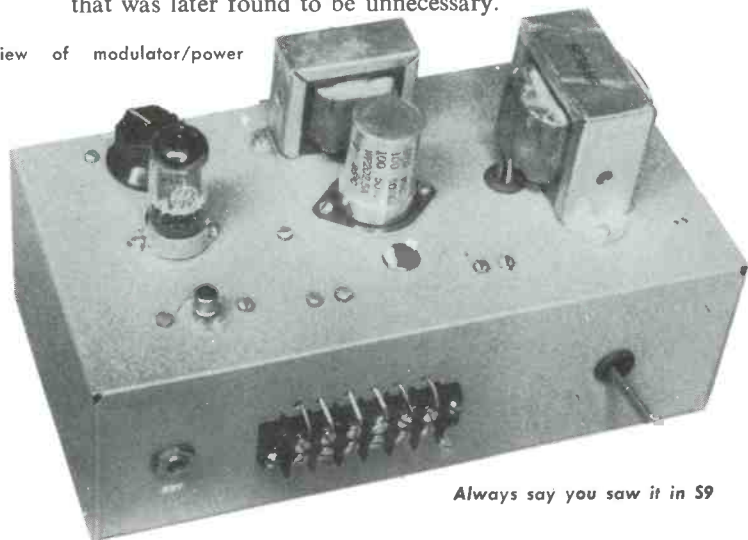
The short transmission line running between  $L_3$  and the lugs at the center of the antenna is made by twisting together two 8" lengths of plastic insulated hookup wire. You can fasten the antenna to the box in either a vertical or horizontal plane. However, horizontal polarization is popular with serious Part 15 operators and is definitely recommended by the author.

A low capacity "gimmick,"  $C_1$ , provides sufficient feedback to insure reliable oscillation at  $V_1$ . It consists of two insulated wires, each an inch long, twisted together three or four times over a distance of about half an inch.

### MODULATOR/POWER SUPPLY

Figs. 2, 6 and 7 clearly show how the major components are arranged on the chassis. The plug and screws visible behind  $C_{16}$  won't be required in your version. They were used in the prototype merely to fill holes drilled for a part that was later found to be unnecessary.

Fig. 6. Rear view of modulator/power supply.





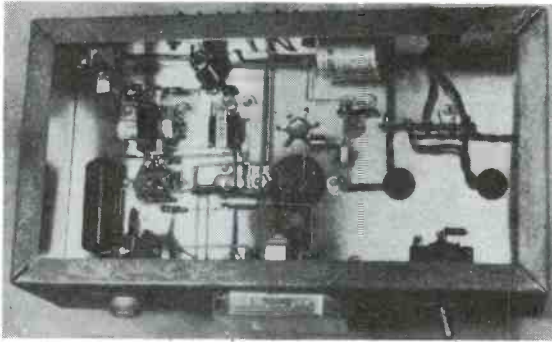


Fig. 7. Bottom view of modulator/power supply.

Carefully observe the capacitor and rectifier polarities indicated on the schematic. Insulate the frame of key jack, J<sub>2</sub>, from the chassis to prevent short circuiting the B-supply. Drill an oversized hole for the jack and use a couple of fiber washers, one on the inside, the other on the outside of the chassis to provide the needed insulation.

Two 50 mf. capacitors were paralleled in the original unit to obtain the 100 mf. desired at C<sub>14</sub> only because the correct value was not available in the junk box. Readers are advised to use a single 100 mf. capacitor at this point. Although S<sub>2</sub> is shown in the schematic as a DPDT switch, you may substitute a DPST switch, since the R (receive) terminals are unneeded.

As you scan the Parts List you'll notice that a number of symbols are followed by either one or two asterisks. With regard to the single starred items, ratings must be adhered to exactly, but any make of component will prove satisfactory. Two starred items, on the other hand, should not only carry the correct rating but also should be of the specified brand. If substitutions are made for these critical items, the transmitter may fail to meet the requirements of Sec. 15.205. Play it safe! Unless you are technically qualified to experiment and have sufficient test gear to assure compliance with the FCC's Rules, don't change the specifications.

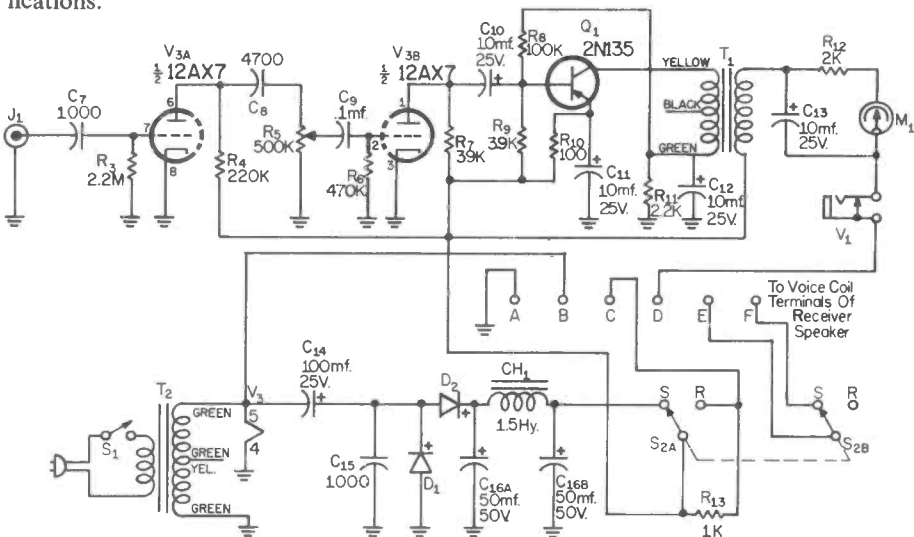


Fig. 8. Schematic of the modulator/power supply.

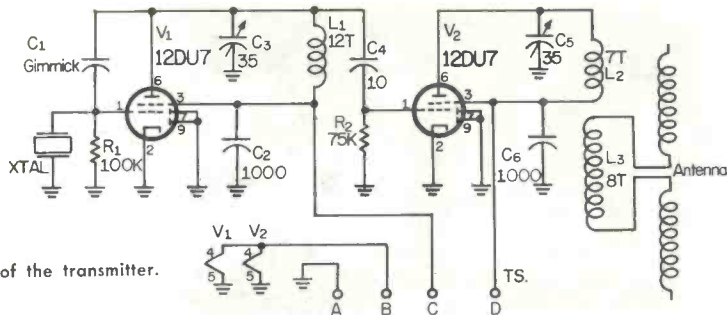


Fig. 9. Schematic of the transmitter.

**PARTS LIST**

- C<sub>1</sub> Gimmick (see text)
- C<sub>2</sub>\*, C<sub>6</sub>\*, C<sub>7</sub>, C<sub>15</sub> 1000 mmfd. disc ceramic capacitors
- C<sub>3</sub>\*, C<sub>5</sub>\* 35 mmfd. variable capacitor
- C<sub>4</sub> 10 mmfd. tubular ceramic capacitor
- C<sub>8</sub> 4700 mmfd. disc ceramic capacitor
- C<sub>9</sub> .1 mfd. capacitor
- C<sub>10</sub>, C<sub>11</sub>, C<sub>12</sub>, C<sub>13</sub> 10 mfd. 25 volt capacitors
- C<sub>14</sub>\* 100 mfd. 25 volt capacitor
- C<sub>16</sub>\* 50-50 mfd. 50 volt capacitor
- R<sub>1</sub>, R<sub>8</sub> 100K 1/2-watt resistors
- R<sub>2</sub>\* 75K 1/2-watt resistor
- R<sub>3</sub> 2.2M 1/2-watt resistor
- R<sub>4</sub> 220K 1/2-watt resistor
- R<sub>5</sub> 500K potentiometer with switch
- R<sub>6</sub> 470K 1/2-watt resistor
- R<sub>7</sub> 39K 1/2-watt resistor
- R<sub>9</sub> 3.9K 1/2-watt resistor
- R<sub>10</sub> 100 ohm 1/2-watt resistor
- R<sub>11</sub> 2.2K 1/2-watt resistor
- R<sub>12</sub>\* 2K 1/2-watt 5% resistor
- R<sub>13</sub> 1K 1/2-watt resistor
- CH<sub>1</sub>\*\* 1.5 hy., 200 mil, 60 ohm choke, Knight 61G406
- D<sub>1</sub>, D<sub>2</sub> 300 mil, 400 PIV silicon rectifiers
- J<sub>1</sub> Amphenol 75-PC1M chassis connector
- J<sub>2</sub> Closed circuit phone jack

- L<sub>1</sub>\*\* 12 turns B-W 3003 Miniductor
- L<sub>2</sub>\*\* 7 turns B-W 3011 Miniductor
- L<sub>3</sub>\*\* 8 turns B-W 3011 Miniductor
- M<sub>1</sub>\*\* Emico 0-20 DC milliammeter
- Q<sub>1</sub>\* 2N1375 transistor
- S<sub>1</sub> SPST switch (part of R<sub>5</sub>)
- S<sub>2</sub> DPDT toggle switch (see text)
- T<sub>1</sub>\*\* Interstage transformer, 1500: 500 ohms c.t., Knight 62G376 (\$2.51, wt. 3 oz.—Available from Allied Radio, but not listed in their consumer catalog)
- T<sub>2</sub>\*\* 12.6 volt, 2 amp, transformer, Knight 61G420
- TS<sub>1</sub> 4 screw terminal strip
- TS<sub>2</sub> 6 screw terminal strip
- V<sub>1</sub>\*, V<sub>2</sub>\* 12DU7 tube
- V<sub>3</sub>\* 12AX7 tube
- Xtal\* 3rd overtone HC-6/U quartz crystal cut for any frequency between 26.98 mc. and 27.26 mc.
- Bud 3007-A 6"x5"x4" Minibox
- Bud AC 421 3"x9 1/2"x5" chassis
- 4 wire TV rotor cable
- 5 12" lengths 5/8 polystyrene tubing
- 1 12" length 1/2" polystyrene tubing
- \* Do not substitute with a part of a different rating.
- \*\* Use only an exact duplicate of the brand name specified.

**ADJUSTMENT**

When all wiring has been completed, double check your work for errors. Plug in the power cord, tubes, transistor and crystal. Attach a ceramic, crystal or dynamic microphone to J<sub>1</sub>. Connect together the correspondingly lettered terminals of TS<sub>1</sub> and TS<sub>2</sub>. Bend L<sub>3</sub> backwards, as far away as possible from L<sub>2</sub>. Set both C<sub>3</sub> and C<sub>5</sub> at full capacity (plates meshed). Turn R<sub>5</sub> clockwise just far enough to cause S<sub>1</sub> to snap on. After the tube heaters have warmed up, throw S<sub>2</sub> to S (send). The plate meter, M<sub>1</sub>, should read somewhere between 7 and 9 ma. Rotate C<sub>3</sub> until the meter suddenly drops to around 5 1/2 ma. denoting oscillation in V<sub>1</sub>. Slowly tune C<sub>5</sub> while watching the meter. It will drop another mil or so when the plate circuit of V<sub>2</sub> comes into resonance.

Move the transmitter outdoors to a spot where it is well away from the ground and surrounding metallic objects. If possible, fasten it to the top of the pole which will serve as its final mount. Lean the pole against a stepladder in

such a way that you can still reach the transmitter for further adjustments. Push L<sub>3</sub> forward until it is in the position illustrated by Fig. 3.

Set up a sensitive CB field strength meter near the transmitter. Squeeze the windings of the antenna closer together near the center of the 5 foot tube. Stretch them further apart near the ends. After each adjustment of the turn spacing, move several feet away from the antenna before taking a field strength reading. Otherwise, the presence of your body will have a marked effect on the tuning. Once you've reached the point where squeezing the turns closer together at the center of the antenna causes the field strength to drop off, rather than to increase, the antenna is resonant. In the author's case, the highest meter reading was obtained with a spacing of about  $\frac{3}{16}$ " near the center,  $\frac{1}{2}$ " part way to the ends and about 1" near the ends. When you're satisfied that the antenna is doing its best, give it a heavy coat of "Q" dope to permanently cement the turns in place.

Vary the position of L<sub>3</sub> with respect to L<sub>2</sub>, again trying for maximum field strength. Readjust C<sub>5</sub> each time you move L<sub>3</sub>. Remember to stand well away from the rig each time you read the field strength meter. Finally, readjust C<sub>3</sub> to the point which results in maximum output while still providing instantaneous oscillator starting each time S<sub>2</sub> is thrown on.

You may now put the cover on the transmitter and mount the unit high in the air.

When talking into the microphone, turn up R<sub>5</sub> only until the needle of M<sub>1</sub> begins to jump slightly with each syllable. This setting provides the loudest clear sounding audio. Don't go beyond it.

To operate CW, turn down R<sub>5</sub> as far as you can without switching off S<sub>1</sub>. Plug a telegraph key into J<sub>2</sub>.

You can prevent the receiver from giving out with a disagreeable feedback whistle whenever it is tuned to your transmitting frequency if you connect terminals E and F of TS<sub>2</sub> across the speaker's voice coil winding. S<sub>2</sub> will then silence the receiver by shorting out the speaker when you're on the air.

### CERTIFICATION

Every Part 15 transmitter must bear a certificate attesting that it complies with all FCC requirements. Fig. 10 is an example of a suitable certificate which may be affixed to the modulator/power supply.

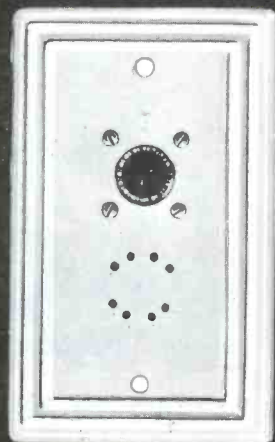
<b>CERTIFICATE OF COMPLIANCE WITH                  FEDERAL COMMUNICATIONS COMMISSION                  REGULATIONS, PART 15, PAR. 205</b>	
S9 Magazine certifies that this low power transmitting device can be expected to comply with the requirements of Paragraph 15.205 of the FCC regulations under the following conditions: (A) When this device is assembled according to the diagrams and instructions published by this magazine, using components of the exact specifications described. (B) When in use for the purpose and in the manner indicated in the instructions. (C) When operated on a frequency between 26.97 mc/s and 27.27 mc/s and using an antenna limited to a single element not more than 5 feet long.	
S9 Magazine, Port Washington, N. Y.	Dated: September 15, 1964
I hereby certify that I have assembled and adjusted this device in strict accordance with the above.	
Owner's signature:	Date:

Fig. 10.



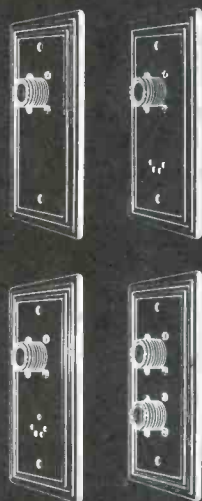


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# S9

# MEETS BARRY

**EXCLUSIVE INTERVIEW WITH AN S9 SUBSCRIBER**

by **TOM KNEITEL, KBG4303**  
EDITOR

You could have knocked me over with a ground plane when I received a call from Republican Headquarters in Washington saying that an S9 subscriber, one Barry Goldwater, would soon be in New York in a few days and had invited me for a visit to his hotel suite. Goldwater, both ham operator and CB'er, and outspoken on both, was coming to town for the ARRL ham convention to make a speech.



I was at the outer edge of a large sea of reporters.

Armed to the adenoids with cameras, exposure meter, flash bulbs, a walkie-talkie, paper, pencils, and much other editor type regalia, I made my way to the 44th floor of the *New York Hilton Hotel*—the Senator was staying in the Presidential Suite. My hopes for a cozy little chat lessened slightly when I got off the elevator and found myself in the midst of about 50 grizzly looking newspaper men wildly waving their arms in a vain effort to attract the attention of several equally grizzly looking New York cops who were blocking the corridor. Eventually the press people were let in, one at a time, as the police checked the names of the reporters against a master list. Unfortunately, my name wasn't on the list and, and despite numerous pleadings I was politely told to *make like a drum* (beat it). Finally, I persuaded one of the cops to take my S9 press card into the Senator's Press Secretary—I had scrawled "HELP" across the front of the card. After a tense 5 minutes I was ushered past the guard by a staff member who said that the Senator didn't mention to members of his retinue that he had planned to see me.

By the time I got inside the suite, the reporters had the Senator pushed into a corner and were alternately taking photos and asking questions. I retired to the sofa and assumed the lotus position; glumly, I might add.

When the reporters had completed their grilling, the Senator began making his way briskly towards my general direction—which prompted me to immediately start gathering all my editor's equipment. I was able to estimate an approximate collision course, and immediately embarked towards the Senator, my cameras swinging wildly in all directions.

"Senator Goldwater, I'm . . ."

He cut me off, "I just received your new issue in the mail this morning, that was quite a cover."



The Senator examines the walkie-talkie which I had brought with me. Listening to Channel 9 amused him.

He was referring to our September weirdo cartoon cover.

"Is that a walkie-talkie you've got there, give me a look."

"Yes Senator, I use it to . . ."

"The handle's Barry." That shook me up a bit, since the reporters hadn't been given similar instructions. Apparently he has always requested that radio hobbyists be on a first-name basis with him.

He flipped the walkie-talkie on and we were treated to a few dazzling minutes of New York's wild channel 9—and from 44 stories up I think we heard stations in California on ground wave. I was able to grab off a few photos while holding him captive. The newsmen were already moving in on us.

Asked if he had any opinions on the new CB rules, he replied that he hadn't had a chance to read through them in any great detail, adding, "I know that all people certainly have a *need and a right to communicate*, and CB is just as much a part of the American communications scene as the telephone." He went on to say that he was going to go through the new rules closely and as soon as possible.

On the subject of CB'ers, the Senator remarked that he is constantly flooded with CB QSL cards

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After my interview, I was quickly elbowed to the back of another crowd of reporters.

from swappers. He said that one of his secretaries spends much of her time replying to these cards.

By this time the Senator was being tugged at by newsmen and someone was calling him to a telephone across the room.

He shrugged his shoulders, smiled, and said, "73's, Tom—I think that . . ." He was drowned out by a reporter who wanted to know about farm subsidies. Barely finished shaking hands, I was promptly elbowed by a sea of newsmen, backwards towards the sofa.

It was a short visit—but it's always interesting to meet an **S9** reader!



Giving a small wave of recognition, the Senator hurries off, surrounded by plainclothes police, to another appointment. The shot is a bit blurred because Gold-water was walking so fast.



Always say you saw it in **S9**



# Friendly Communications

by THE OLD TIMER

This is a true story. Only the names, dates, places, and gear have been changed to protect the innocent. Any similarity to persons living or dead is not only possible, it's an everyday occurrence!

The time was a Monday morning, the place, my driveway; the culprit, a dead battery. A friendly neighbor appears.

"Mornin' Joe, got problems?"

"Yeah, durn car won't perk and I'll be late for work."

"Well, hop in. I'll drop you off."

"Thanks Fred, I'll have the mechanic work on it later. Say, what's that box with all the lights and knobs under your dash?"

"Oh, that's my radio."

"Radio, I never saw one like that before."

"It's a CB two-way radio."

"Eh? What's two-way about it?"

"A long story. Why don't you and the XYL drop over for a coffee break tonight and I'll clue you in."

"I guess you mean that I should come by your house tonight with the wife, so I'll see you later."



"And the neighbors awarded me this one."

"Is all this legal, Fred?"

"I think so, everybody does it so it must be."

"Man, that seems like a ball. How much do those radios cost?"

"I know a guy that not only sells them but can soup them up to sound like 20 watts—you have to buy only *one* unit, y'know."

"Only *one*? I thought they call it two-way radio because you have two of them."

"Look, don't be a square. See this cord? Well when you use the set in the car, this plugs into the cigarette lighter. At home you just use this other cord. All you have to do is sign a few FCC forms to get the license, and *tell* 'em that you are going to use two rigs—they'll never know the difference. If they think that you are using only one set they don't dig it."

"That's all there is to it?"

"While you're waiting for your license to come through I'll loan you my call, you can be my 'Unit 3.' My brother is 'Unit 2.'"

"But you said that the license is good for only two units."

"Don't be a jerk. Who is gonna know? The FCC is too busy to worry about a thing like that."

"Well, I dunno . . . what's this FCC anyway?"

"Oh that's some outfit in Washington that issues the call signs and makes a lot of official sounding announcements. Bunch of politicians, or something like that."

\* \* \*

Well, it wasn't long before some fellow

Thinking about this all day, the thing finally got the better of my curiosity. By the time I arrived at Fred's house he was already seated at a desk upon which was located one of these two-way radios, just like the one in his car.

"KBZ9970 Mobile this is KBZ9970 base," crackled from the radio.

"Lissen to that skip, boy you just got here in time."

Now the set croaks out, "Hello Montana, do you copy *Ol' Gator* from Florida?"

Joe makes a violent lurch from the microphone which is hung on the end of a curly piece of cord. He shouts, "Break, break, break Florida. This is *Pine Tree* from California, do you copy, *Ol' Gator*?" A creepy mixture of howls and whistles greets this call, but then a faint voice can be heard in the background.

"*Pine Tree*, this is *Swamp Rat* in Louisiana. How about an address for a card?"

"10-4 *Swamp Rat*, the 10-20 here is Box 455, Furdville, California—that's F-u-r-d-v-i-l-l-e, California. How copy?" A noisy crackle ensues and *Swamp Rat* doesn't come back.

"He didn't answer, Fred."

"That's OK, he probably got it. That reminds me, I forgot to kick on my 125 watt final."

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shows up at my door carrying a box containing a CB rig. After hacking at the strings and tape, I'm confronted with the damndest looking mess of electrical gear that I've ever seen. Hmmm, what's this book about? Federal Communications Commission, Part 95. Wonder what it's all about, I'll ask Fred.

"Sure, Joe . . . every rig has one packed inside, but I never could understand what they were getting at. I think it applies to business people using these things. I plowed through it once, boy what language . . . Einstein couldn't understand it!"

\* \* \*

So the rig is finally on the air. The guy came back and worked on the rig to soup it up, and everyone tells me that 5 watts out for 5 watts in certainly is as good as anyone could want from a CB rig. I wonder if I should keep using the rig before my license gets here.

"KQQ4887 Unit 3, this is mobile," crackles the receiver. "KQQ4887 Unit 3, this is mobile," it repeats, only slightly louder this time. "Hey Joe, can you copy now?"

"Oh, yeah . . . I . . . oops, forgot to press the button . . . Fred?"

"10-4, Joe. How's this sound now?"

"Pretty good, sounds like you're right outside the window, Fred."

"Ha, ha. That's a big 10-4, I am. I put the

rig in the car and I'm in your driveway."

"Uh . . . well . . . OK, Fred."

"I'm coming in now, Joe. *Kelly's Quiet Quitter Foah Double Eight and a Seven* throwin' the switch."

A loud thump followed by a slamming door and Fred says, "10-4, Joe. We never say 'OK,' it sounds . . . well . . . a little on the square side."

"OK . . . er, 10-4, Fred. Takes a while to sound like a real CB operator, I guess. Hey here comes the postman to the door, I wonder if he's got some of those little cards from the skip stations we worked from here the first day I had this station on the air. Good morning, sir . . . yes, that's Fred Farad's car in front of the house. You have something for him too? We've got to sign for them? 10-4 . . . there. Now who's this from . . . the Federal Communications Commission? Wonder what they want."

"Say Joe, I think I hear the XYL calling me, gotta run now."

"Wonder what that was all about? Fred took the letter, jammed it into his pocket and took off. Let's see, I got my new license, I'm KQQ5378 now . . . boy that FCC works faster than Fred thinks. Maybe I'll take a crack at reading that Part 95 business . . . I'll bet it's not anywhere near as difficult to understand as Fred makes out."

**\$9**

# 10-33

## HOW TO COMPLY WITH NEW REGULATIONS WHEN YOU USE YOUR RIG FOR HELPING OTHERS

by LILIA NEIRA  
S9 STAFF

The new FCC regulations spell out rather plainly (in Section 95.85) what you must do in the instances where you decide to lend a helping hand to a stranded motorist, or perform any other "emergency" deed.

In 95.85(b) the rules state that "Any station in this service may be utilized during an emergency involving the immediate safety of life or protection of property for the transmission of emergency communications." The section goes on to say that, in the instance of such communications, certain FCC regulations are suspended. Under circumstances of such emergency messages you may (1) use any of the 23 CB channels to transmit the message, (2) even communicate with a Part 15 station, (3) make a transmission not addressed to a specific station, (4) allow your station to be operated by a person not normally authorized to operate the equipment, and (5) you may conduct your exchange of transmissions without regard to the 5 minute time limitation.

*There's a catch*, however. Section 95.85(1) spells out rather plainly that "As soon as possible after the beginning of such emergency use, notice shall be sent to the Commission in Washington, D.C., and to the Engineer in Charge of the Radio District in which the station is located, stating the nature of the emergency and the use to which the station is being put." They go on to say (in 95.85(2)) that the emergency use "shall be discontinued as soon as possible, and the Commission in Washington, D.C., and the Engineer in Charge shall be notified immediately

when such special use of the station is terminated. If the emergency use is less than 24-hour duration, a single notice containing all of the required information will serve to comply with the notice requirements of this paragraph."

This means that each and every time you or your club renders emergency aid via CB to a motorist, or helps out in a search and rescue operation, or performs any authorized emergency communication, you have the FCC's *green light* to special operating privileges—BUT you must also notify two FCC offices in writing of your good deed. This, of course would probably discourage many operators from helping others, because of all the bothersome paperwork involved. Because we feel that this particular use of CB is one of the backbones of the entire service, we are making available a simple postcard which contains all the necessary wording and provisions for the information—all set for you to fill in and dash off to the Commission when you use your CB gear to help someone out. These rules, by the way, are in effect for not only a mobile unit which stops to help someone else, but also for the base station which contacts the mobile unit.

The cards are available in lots of 50, *postpaid* for \$1 a pack. This gives you the "right" to *legally* aid 25 citizens and will keep the FCC happy. Included with the cards is a list of all FCC District Offices, with their mailing addresses. Order your cards from: Project "Aid," S9 Magazine, 14 Vanderventer Avenue, Port Washington, N. Y. 11050.



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- 8 Crystal Receive Positions plus 8 Crystal Transmit Positions plus 23-Channel Tunable Receive
- Push-to-Talk Microphone
- Dependable Relay Switching
- Illuminated Meter with 3-Position Switch
- Adjustable Squelch
- Spotting Switch
- Built-in 117 Volt AC Power Supply with 12 Volt DC Mobile Transistorized Power Supply
- With Bracket Handle, Push-to-Talk Ceramic Mike, Pair of Transmit and Receive Crystals for Channel 15 plus Crystal for Dual Conversion

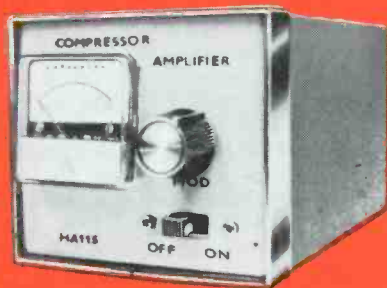
## NEW! LAFAYETTE MODEL HA-115 AUDIO COMPRESSOR AMPLIFIER FOR CITIZENS BAND-TRANSCEIVERS

### 3 ACCESSORIES IN ONE COMPACT UNIT

- 6, 12 or 117 Volt For Mobile or Base Transceivers
- Illuminated Meter Directly Reads Modulation Percentage
- Completely Pre-Set and Pre-Tested
- Printed Circuitry — Advanced Design
- Works With All Popular CB Units
- Simple Installation
- Increased Intelligibility Over Static, Noise, Adjacent Stations
- Better Modulation for Older Units
- Increased Talk Power For CB Operation

## 25<sup>95</sup>

42-0117 WX



Made In U.S.A.

**FREE!**

See the Largest Selection in our 44-Year History:

- Citizens Band—Lafayette leads the field in transceivers, Walkie-Talkies and accessories
- plus
- Stereo Hi-Fi ● Ham Gear
- Tape Recorders ● Test Equipment ● Radios, TVs and accessories ● Cameras
- Auto Accessories ● and Much More



# LAFAYETTE RADIO ELECTRONICS

1965 CATALOG No. 650  
Over 500 Pages

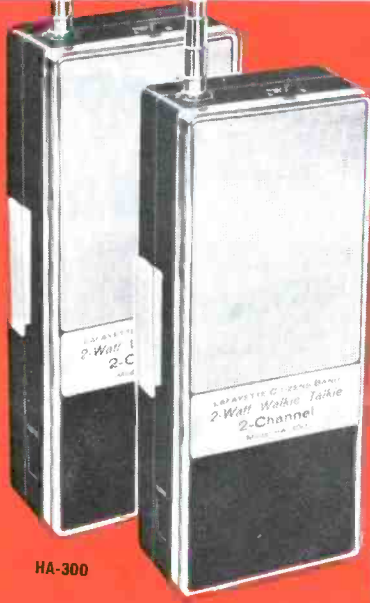
Featuring Everything in C.B. from the

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Mail the Coupon for your **FREE** 1965 Lafayette Catalog

## NEW! LAFAYETTE 2-WATT 2-CHANNEL C.B. “WALKIE-TALKIE” Model HA-300 WITH VARIABLE SQUELCH

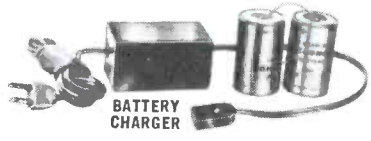


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- Range up to 10 Miles
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- 13 Transistors, 2 Diodes
- Fully Crystal Controlled
- Full-Time Automatic Noise Limiting Circuit
- 10-Section Telescopic Antenna
- Complete with Nickel Cadmium Batteries, Battery Charger, Earphone, Crystals for Channels 10 and 15, Leather Carrying Case ● Imported



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# LAFAYETTE

## NEW! LAFAYETTE 23-CHANNEL CRYSTAL-CONTROLLED DUAL CONVERSION 5-WATT CB TRANSCEIVER

WITH ADVANCED "RANGE-BOOST" CIRCUIT



Double Side Band Full Carrier

Model  
HB-400  
99-3001WX

169<sup>50</sup>

- ✓ 17-Tube Performance with 13 Tubes
- ✓ Low Noise Nuvistor "Front End"
- ✓ 5 Double-Tuned If Transformers
- ✓ Meets All FCC Requirements

- Frequency Synthesized Circuit Provides 23 Crystal-Controlled Transmit & Receive Channels—No Extra Crystals to Buy!
- Continuous One-Control Channel Tuning
- Full 5-Watt Input
- Push-To-Talk Microphone & Electronic Switching
- Dual Conversion Receiver With 3/10  $\mu$ v Sensitivity
- Delta Tuning Offers "Fine Tuning" of  $\pm 2.5$ Kc on Receive
- Illuminated "S" and RF Output Meter
- Variable Squelch, Variable Noise Limiter, AGC
- Built-in 117V AC & 12V DC Power Supply
- "Vari-Tilt" Mounting Bracket for Easy Mobile Installation
- Plug-in Facilities For Lafayette Selective Call Unit

Efficient, dependable 2-way communications in any fixed or mobile application is assured with this rugged, new 5-watt CB transceiver. A military-type frequency synthesizing circuit makes it possible to transmit and receive over the full range of 23 channels with crystal-controlled accuracy—no extra crystals to buy and install! Efficient circuit with 13 tubes and 8 diodes offers maximum transmitter power output . . . high receiver sensitivity—plus every feature CB users want! Operates in a fixed or mobile location with equal ease . . . has built-in power supply for either 117V AC or 12V DC. Specially designed "Vari-Tilt" mounting bracket simplifies mobile installation—permits fast removal of the transceiver too! And, there's nothing else to buy—you get all crystals, push-to-talk ceramic mike, and a built-in vibrator for 12V DC, plus 2 power cables. Measures a compact 12Wx5Hx10"D.

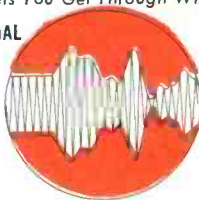
## ADVANCED "RANGE-BOOST" CIRCUIT

Increases Your Effective Range—Lets You Get Through When Others Fail!

Want to effectively increase your range? You can—with Range-Boost! A simple turn of a switch on the HB-400 increases the average percentage of modulation and lets your voice cut through QRM and noise to reach further . . . gives you more "talk-power" when you need it—without overmodulating!

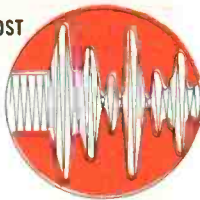
### CONVENTIONAL

Average Percentage of Modulation is Lower



### WITH RANGE-BOOST

Average Percentage of Modulation is Higher—Side-band Power is Increased



# Headquarters For Citizens Band Equipment

## NEW! LAFAYETTE ALL-TRANSISTOR DUAL CONVERSION 5 WATT CB TRANSCEIVER

FEATURING AUTHENTIC MECHANICAL FILTER

Model HB-500



139<sup>50</sup>

- ✓ 100% Solid-State . . . Full 5-Watt Performance!
- ✓ Small, Compact—Only 11-7/16Wx6-11/16Dx3"H
- ✓ Low Battery Drain—Less Than 350 ma on Receive, 850 ma on Transmit!

**RUGGED, HEAT RESISTANT TRANSISTORS USED IN ALL CRITICAL AREAS**

**EPITAXIAL SILICON, MESA TRANSISTORS used in Transmitter Oscillator, Driver and Final Stages.**

**SILICON MESA TRANSISTORS used in Receiver Oscillator, RF and IF Stages.**

- 12 Crystal Transmit plus 12 Crystal Receive Positions
- 23 Channel Tunable Receiver with Vernier Tuning
- Dual Conversion Receiver with 5/10  $\mu$ V Sensitivity
- 15 Transistors, 3 Diodes, 2 Zener Diode plus 1 Thermistor
- Zener Diode Voltage Regulated Receive Oscillator for Superior Frequency Stability
- Dependable Sealed Relay Switching
- Automatic Noise Limiter
- Variable Squelch
- For 12 Volt DC Mobile Operation (Negative or Positive Ground) or for 117V AC Operation when used with Matching Solid State AC Power Supply (Optional)
- Meets All FCC Regulations

If you're looking for a high-performance CB transceiver in a small, compact size, you'll want the HB-500! Using advanced solid-state circuitry, this transceiver is small enough to fit conveniently into the most compact car. And, battery drain is really low! The transceiver draws no more than .35 amps on receive, .85 amps on transmit—an important advantage in mobile applications! This rugged transceiver offers instantaneous, cool-running operation and features printed circuit, all-transistor design. Equipped with mobile mounting bracket, push-to-talk dynamic microphone, crystals for operation on channel 12.

### HIGHLY SELECTIVE MECHANICAL FILTER



With CB channels only 10 Kc apart, selectivity is important! In the HB-500, ultra-sharp selectivity is achieved by means of a true mechanical bandpass filter in the 455 Kc IF section. At 10 Kc on either side of the center frequency, the filter provides 60 db of attenuation—an extremely high rejection ratio that assures complete adjacent channel rejection!

### Model HB-501 Solid State AC Power Supply

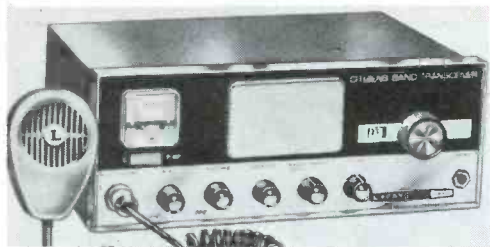
Matching solid state AC power supply for HB-500 for fixed station operation (at home, business, office). Transceiver rests on power supply to form attractive integrated unit. Size 11 $\frac{1}{4}$ x6 $\frac{1}{4}$ x3 $\frac{1}{4}$ ".

99-3028 ..... Net 16.95





# ON THE COUNTERS



Lafayette Radio, Dept. S9J-4, 111 Jericho Turnpike, Syosset, N. Y. announces their new HB-400 23 channel rig featuring "Range Boost" modulation. The unit, which comes complete with all crystals, also embodies a dual conversion receiver for maximum selectivity. The "Range Boost" modulator increases the average modulation giving extended power in the sidebands for increased effective transmitter range. A provision for Lafayette's HA-200 Selective Call Unit is on the rear deck. Price of the HB-400 rig is \$169.50, and this includes a power supply for 117 VAC and 12 VDC, and a "Vari-Tilt" mounting bracket.

midget are 12 transmit channels and 23 receive channels, with one set of crystals included in the rig (Channel 12).

Details of both of these rigs, and several other fantastic new Lafayette CB developments, as well as their extensive line of non-CB electronics goodies, are provided in the brand new 1965 Lafayette catalogue, which is available FREE by requesting same from the address above. This is a 516 page giant and we can't imagine a CB shack being considered "complete" without one.



We have been fortunate in obtaining an advance look at the new rigs from United Scientific Labs., 35-15 37th Avenue, Long Island City 1, N. Y. Our photo shows the USL "Contact" unit, a 8 channel job, with a 23 channel receiver (plus an external crystal socket for transmit and receive). Operating on both 117 VAC and 12 VDC from a transistorized power supply, the *Contact* also provides a Nuvistor front end for lowest noise and highest sensitivity, a built-in TVI trap, a unique slanted front panel for ease of operation when base or mobile, full plate modulation, crystal spotting, a PA system jack, an earphone jack, and many other goodies. The set lists for \$149.50. Dealers looking for a hot line and CB'ers looking for hot results, please drop a note to Bernie Sussman at USL—tell him that S9 sent you and you'll be promptly deluged with all kinds of gigantic and colorful QSL cards, poop sheets, spec sheets, photos, and whatnot.

Hallicrafters, Chicago, Ill., 60624, unveiled

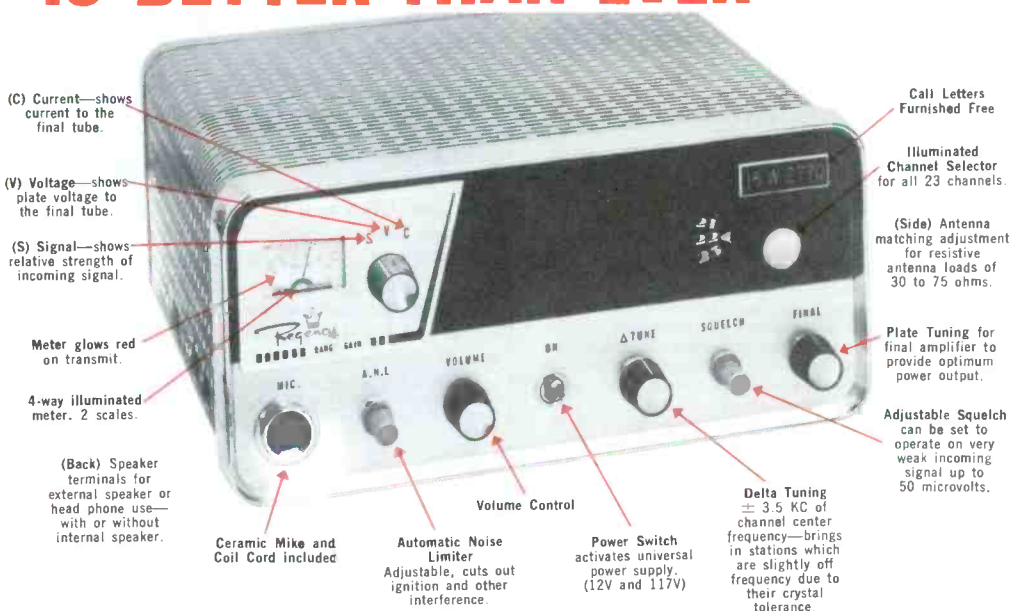


Lafayette is also bringing out the HB-500 all transistor dual conversion CB transceiver. A mechanical filter in the receiver provides 60 DB attenuation of signals 10 kc/s either side of the signal being received. The transmitter/receiver uses 15 transistors, 3 diodes, a Zener diode and a thermistor, all working together to run a full 5 watts input with 100% modulation. A 12 VDC power supply is built in, and a 117 VAC supply is optionally available for \$16.95. The HB-500 itself is \$139.50. Other features of the mighty

*Continued on page 40*



# THE BIG <sup>Regency</sup> RANGE GAIN TRANSCEIVER IS BETTER THAN EVER



## **NEW** Chrome Front Panel—meter escutcheon—control knobs Metering Scale Squelch Circuitry

Now the best transceiver is even better. The new Regency "Range Gain" with its exclusive Double Side Band Reduced Carrier Transmitter gives you all the power you need for horizon-line operating range PLUS metered control so you do not exceed the FCC limit. Plus you get new clarity in reception . . . pulls in even more distant signals than ever. 23 crystal-controlled channels—transmit and receive included. The word is out. Ask your friends about the "Big R." There is nothing on the market to match it, and the price is right. See your Regency dealer now.

**12 MONTHS—1 FULL YEAR—WARRANTY ON UNIT AND CRYSTALS**

## **INTRODUCING NEW REGENCY ROMPER TRANSCEIVER, USES ONLY ONE CRYSTAL PER CHANNEL TO TRANSMIT AND RECEIVE**



Here's where big savings are yours. Now with the Regency Romper, one crystal does the job of two—it both transmits and receives—reducing your crystal cost by one-half. No coil tuning is required—just plug in the crystals. Switch provides for variable tuned reception of all 23 channels or crystal-controlled operation.

FOR COMPLETE TECHNICAL INFORMATION WRITE:

 **Regency** Electronics, Inc.

7900 Pendleton Pike • Indianapolis, Indiana 46226

# CB IN ACTION

By Len Haas,  
Sales Manager,  
Pearce-Simpson, KBG7527



## "A SALUTE TO THE PIONEERS OF THE AIR"

Communications from its very inception has had its pioneers. Through the years we have learned to recognize the Alexander Graham Bells, the Marconis and the many others who pioneered the field of communications. All of these people were recognized and nationally acclaimed for their achievements.

As a result of their pioneering in the communications field, both industry and private citizens soon had the use of communications. The commercial radio aboard planes and ships served a tremendous need—both for safety and economic advantage. And the amateur radio operator found a tremendously useful hobby. All of these groups pioneered and were recognized.

The time has come to recognize the pioneers of citizens band equipment—now an industry by itself, grown to today's proportions only because of the pioneering done a little over six years ago.

We would like to salute the early and current users of citizens band equipment for the tremendous foresight they have had in advancing one of the most useful means of communications that the everyday citizen can now own and operate. CB is now recognized and used in public health, safety, boating, business, industry, as a hobby and for practically every other application you can think of. As a result of the last six years, all of you pioneers have made a great industry, put many new companies in business and have put many people to work manufacturing CB equipment. America can be proud of this new industry. Its backbone is you, our CB'ers—and the potential is unlimited—every citizen who desires and needs the use of this equipment. Because of our Pioneers this industry will grow together with the people of America. Although this article is written under the title of "CB In Action," it is truly you, our pioneers of CB, who are really "CB In Action."

We, therefore, recommend that the CB Clubs, Magazines and Manufacturers in America choose a week every year to salute CB and its pioneers. Write and give us your thoughts and ideas on "CB In Action" week—only your letters can get the ball rolling. Let's really come up with a program which will bring CB to the attention of the American people and show what a fine job you pioneers are doing to help your communities. Let's get together and make our chosen week something to remember and look forward to every year. Give "CB In Action" a meaning which will be nationally recognized.

### WIN A COMPANION

Don't forget to keep sending in your "CB In Action" stories. Remember, tell us about any experience which you or your club have had in which you used CB to help another person or your community. The best "CB In Action" story will win a brand new COMPANION II CB. Write Len Haas, National Sales Manager, Pearce-Simpson, Inc., 2295 N.W. 14th Street, Miami 25, Florida.



their new CB-9 unit for those CB'ers who crave for high cost operation with a minimum price-tag (\$129.95). It offers 6 transmit channels with a full channel receiver and crystal spotting. It is designed to accommodate the Halli HA-12 Tone-coder and HA-11 "Racket Buster" noise eliminator. Weighing only 14 lbs., it comes ready to operate either base or mobile.



Another Hallicrafters innovation is the CB-8 2-channel hand held 1 watt transceiver. Fully transistorized, the unit weighs just 2½ pounds and sells for \$99.50.

World Radio Laboratories, 3415 West Broadway, Council Bluffs, Iowa, passes along word that their new 1965 catalogue is off the presses. It was designed exclusively for CB'ers and hams, and is available FREE by writing to Larry Meyerson at the company. You might like to do us a favor when writing by telling Larry that you read about it in S9.

From Larry LeKashman, Vice President at Electro-Voice, Inc., Buchanan, Mich., has invented a *must* for all CB'ers. It's called the "Q

ANOTHER  
CB GREAT

\$109<sup>50</sup>

slightly higher west of Rockies



# Courier 12

INCLUDES TRANSISTOR POWER SUPPLY; MOUNTING  
BRACKETS; 2 POWER CORDS & MICROPHONE

## FEATURING:

- 12 Crystal-Controlled Transmit and Receive Channels
- Tunable Receive — 23 Channels
- Transistorized Power Supply
- P. A. Facility
- Illuminated "S" & "RF" Meter
- Illuminated Dial
- Single Knob Tuning
- Chrome Cabinet
- Noise-cancelling Mike
- Made in U.S.A.

e.c.i. electronics communications, inc.  
56 hamilton ave., dept CH10  
white plains, n. y.

Please send me full details about the  
e.c.i. Courier 12 and all other e.c.i.  
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World famous manufacturers of quality CB & BB equipment including Courier 23, Courier 1M, Courier 30B, Fleet Courier, Port-A-Lab, Transistorized Power Supply, Linear Amplifier.



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# **NOW!**

## ONLY COURIER CB SETS ARE ALSO CERTIFIED FOR FCC PART 15 OPERATION

- **No license required**
- **Unlimited antenna tower height**  
(SUBJECT TO FAA REGULATIONS)
- **Talk skip - around the world**
- **Use voice or CW**
- **Talk as long as you want -  
on any subject you want**

# 15

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THE REMARKABLE NEW COURIER 12 (FOR DETAILS SEE REVERSE SIDE) COMES EQUIPPED WITH A "PART 15" SWITCH WHICH LIMITS OUTPUT TO FCC PART 15 POWER REQUIREMENTS.

WHEN COUPLED TO THE e. c. i. "FIFTEENER" ANTENNA, COURIER 12 WILL OPEN UP ENTIRE NEW AREAS OF "HOBBY-TYPE" COMMUNICATION.

USE THE COUPON ON THE REVERSE SIDE FOR COMPLETE DETAILS CONCERNING COURIER EQUIPMENT AND FCC PART 15 REGULATIONS.

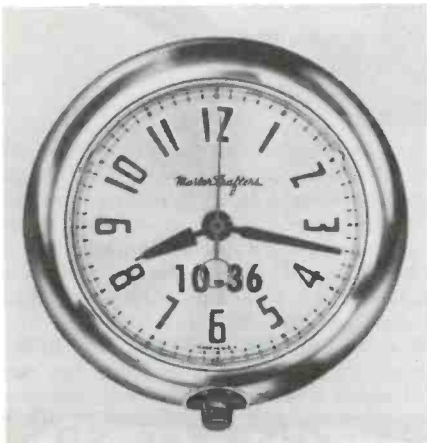
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 **electronics communications, inc.** 56 hamilton ave., white plains, n. y.

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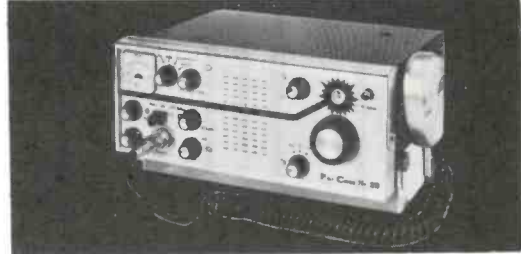
Dial" and it is a clever and sturdy addition to CB operation which gives you, at your fingertips, the 10 code, Morse code, both CB and U.S. ham call areas and prefixes, the phonetic alphabet and phonetic numbers, the "Q code," time conversion data, the "RST" signal reporting system, commonly used radio abbreviations, and just about anything else you can think of. You'll find it really useful. Available from any Electro-Voice distributor, or direct from EV for only \$1.00, postpaid.



Want to know when you've had your CB nickel's worth? You can do it with the "10-36" Clock Timer from Chuck Baer Enterprises, 6429-S North Glenwood Ave., Chicago, Ill. 60626. It is not only handy for your shack, but at \$10.95 (plus \$1.10 Federal Excise tax) it

Special club subscription rates for 59

# NOW THERE ARE TWO GREAT!! POLY-COMM® 23 CHANNEL CB TRANSCEIVERS WITH SPECTRAMATIC TUNING



**POLY-COMM SENIOR 23**  
with selective listener and ringer **\$349<sup>50</sup>**



**NEW**  
**POLY-COMM TWENTY-THREE**  
with public address facility **\$299<sup>50</sup>**

**TRADE UP TO POLY-COMM**  
WRITE FOR COMPLETE SPECS ON ALL POLY-COMM PERFORMANCE-GUARANTEED TRANSCEIVERS



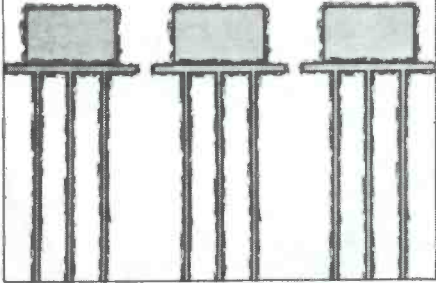
88 CLINTON ROAD, WEST CALDWELL, NEW JERSEY  
07007 TEL: (AREA 201) 228-2400

October 1964 • 41

# S9 DOES IT AGAIN!

## 103 simple transistor projects

Tom Kneitel



Yes, "Mr. S9," Tom Kneitel, has created an exciting adventure through *103 Simple Transistor Projects*. His new book gives you circuits which are not only simple (2, 3, and 4 transistors) but fill every CB-shack need. Beginner and expert alike will actually *enjoy* building such things as: CB mike boosters, transmitters, transceivers, receivers, noise killers, channel locators, frequency standard, battery chargers/eliminators, modulation monitor, power inverter, amplifiers, and more . . . More . . . **MORE!!!** All necessary instructions (in Tom's easy-to-understand style) and hints accompany each project, and Tom has put together *an entire chapter* on how to construct transistor projects to get the best results.

**Order yours now!**

Only **\$2.75** postpaid

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Cowan Publishing Corp.  
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Port Washington, N. Y. 11050

Gentlemen:

Enclosed is \$\_\_\_\_\_ for \_\_\_\_\_ copies of Tom Kneitel's newest book, *103 Simple Transistor Projects*. Please rush!

Name: \_\_\_\_\_, Call: \_\_\_\_\_

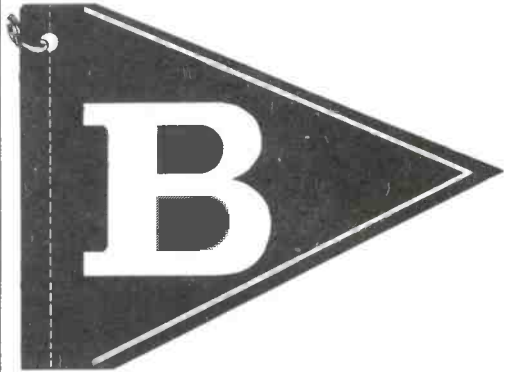
Address: \_\_\_\_\_

City: \_\_\_\_\_, State: \_\_\_\_\_, Zip: \_\_\_\_\_

makes a swell Christmas gift or birthday present. It's an all metal wall clock, 8 inches in diameter, with a bright chrome finish. The timer control switch is on the bottom and, when in the "on" position, it rings a bell every 5 minutes. With the FCC's new rules for 5-on/5-off, this could save much grief.



You may have heard talk of Johnson's *Messenger III*, and it looks as if the rig is the smallest full-power transceiver hereabouts. The all-transistor unit (18 transistors and 9 diodes) is so compact that it can be packed up in a carrying case and operated by batteries, still running 5 watts. A built-in PA system is another feature of the 11 channel unit, which is priced at \$189.95.



Your mobile unit can stand out in any crowd with a *VIP Auto-Locator Flag*—a colorful flag designed for whip antenna mounting. Your initial is hand screened on both sides and it slides on to any antenna without tools. Only 77¢ each (3 for \$2.00), be sure to specify initial desired. Available from Bernstein's, 619 East Baltimore St., Baltimore, Md. 21202.

S9'er Grace Spitz, KCF1561, Box 4095, Arlington, Va., 22204, tells us about her custom label maker which grinds out, with the greatest





of ease, all manner of professional style, plastic, self-adhesive labels, name strips, callsign strips, rig signs, etc. It will turn out wide or narrow, one or two line, labels. Anyone can operate the unit, simply dial and press. Comes complete with 23 feet of tape for only \$5.95, postpaid in U.S.A. Additional reels (23 feet) of tape are only \$1 each.



Designed to operate with Cadre's solid state 5-watt transceivers, and other 12 volt radios, the Model 524 Selective Call unit provides 24 tone-combinations in a unique 3-tone sequential system. Installation of the \$70.00 unit takes but a few minutes and complete specs may be obtained from Cadre Industries, Endicott, N. Y.

Something new on the horizon from Mosley Electronics, Inc., 4610 N. Lindbergh Blvd., Bridgeton, Mo. 63044—and this is clever. Mosley has come out with a series of coaxial wall outlets which will permit you to connect your transceiver's output right to the wall. These plates look much like ordinary wall plates and also pro-

LOW-LOSS, RUGGED, FLEXIBLE  
**NITROGEN-FOAM**  
**50 OHM RG-8/U**  
**COAXIAL CABLE**



Frequency	Loss Per 100 Ft.	Frequency	Loss Per 100 Ft.
5 Mc.	.37 Db.	30 Mc.	.83 Db.
10 Mc.	.45 Db.	50 Mc.	1.22 Db.
20 Mc.	.65 Db.	150 Mc.	2.02 Db.

Heavy non-contaminating vinyl outer jacket protects the pure, bright copper braid, low-loss nitrogen foam dielectric and heavy copper center conductors. Excellent flexibility even under sub-freezing environmental conditions. ONLY .83 Db loss Per 100 Ft. at 30 Mc.

No. of Feet	Price
50	\$ 10.00
75	15.00
100	19.00
125	23.75
150	27.00
200	36.00
300	51.00
400	68.00
500	80.00
1000 (2-500 Ft. Reels)	150.00

**ORDER TODAY**  
 Enclose check or money order—shipping and insurance charges prepaid by us.

**COMMUNICATIONS EQPT. CO.**  
 518 State St. La Crosse, Wis.

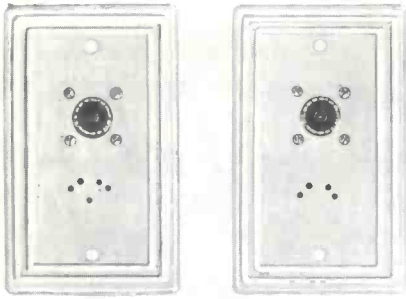
Please send me \_\_\_\_\_ Ft. of Low-Loss Nitrogen Foam, RG-8/U Coaxial Cable at \$ \_\_\_\_\_.

I have enclosed  check  money order

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_



vide for rotor cable connections. List prices range from \$4.38 to \$11.85.



Mosley's "DEVANT 2" mobile antenna is also new. This is a slim-line job which mounts conveniently on the roof or trunk without your having to chop into the vehicle's headliner. Overall height is only 3 feet 9 inches with an SWR less than 1.5:1 on all channels. Included is 12 feet of coax. Price is \$14.50.

# S9 Lab Reports

## THE LAFAYETTE HA-150 1 WATT WALKIE-TALKIE

There are times when CB applications require not only maximum compatibility such as obtained with handie-talkies, but a decent amount of power output is also required. Such would be the case with a construction gang, a hunting party or a company picnic, where a control point needs a little extra push to reach outlying handie-talkies (100 mw. gear receives a lot farther than they transmit.)

One of the few portable units which meets the need for extra power while also providing base station convenience is Lafayette Radio's model HA-150, a 1 watt, 2 channel all transistor *walkie-talkie*.

The HA-150 is a *real* walkie-talkie. While it is lightweight, comparatively compact, and

easily carried on its shoulder strap, it sets up like a base station. A dynamic mike plugs into the unit with TR control on the mike (a push-to-talk switch). A three inch speaker, which is large by some handie-talkie standards produces a clean, sharp receive audio which is comparable to 5 watt transceivers. Whether you set the unit on a table, car top or hang it from the branch of a tree by the shoulder strap the antenna—which is swivel mounted—always points straight up.

You might wonder what advantages walkie-talkie styling has over handie-talkie styling. First, the larger cabinet permits the use of a three inch speaker which can deliver decent sound quality. Second, a *real* mike produces good (by 5 watt standards) transmit audio quality. The larger cabinet permits the use of flashlight "C" type batteries which are universally available for instant replacement should the batteries quit in the middle of a job.

The larger cabinet also results in a quick release battery compartment which permits the user to change the batteries in seconds.

The HA-150, except for the oversize volume control, uses push button control. One button selects either of two channels—10 or 15; the user can change the crystals for any of the 23 channels. A second button turns the squelch *on* or *off* while a third button controls the noise limiter. A fourth button determines the function of the built in meter which indicates either battery condition or modulation (if you don't talk loud enough the meter won't budge off the pin—(proper modulation is indicated when the pointer rises into the "blue scale.")

When extended coverage is required a separate output jack permits the HA-150 to be connected to a standard CB antenna, bypassing the built-in whip. Another jack allows the unit to be powered by an external power supply as an auto battery.

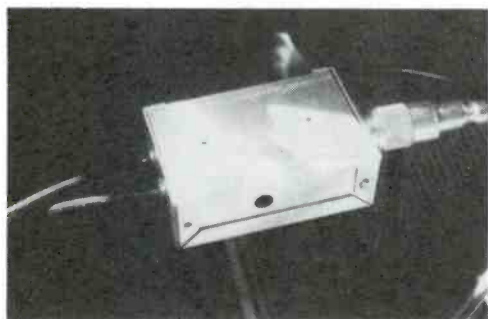
While Lafayette claims a range of up to six miles, we had occasion to give it a test on a fishing trip and got solid copy between the HA-150 and a car mounted mobile at slightly over 8 miles. Considering that the "old fishing hole" was crawling with CB rigs the HA-150 was not bothered by adjacent channel interference (while our 100 mw. units received virtually every signal in the neighborhood regardless of the channel being used).

Standard equipment includes 2 sets of crystals, a PTT dynamic mike, earphone, external battery cable, a set of batteries and a leather case with shoulder strap. Crystals for channels other than the supplied 10 and 15 are optional.

In summation, at \$79.95 the HA-150 is a top buy.



## LAFAYETTE HP-202 CB/BC COUPLER



When trying to receive standard broadcasting stations it is generally advisable to use the longest antenna possible. In a mobile unit you are stuck with the telescoping one which comes with the car and this doesn't always give the best possible performance. Lafayette's HP-202 CB/BC coupler (\$5.95) is about as simple a way as you could find to operate both your car radio and your CB rig from your longer CB antenna—and you can even transmit on CB while the broadcast radio is in operation (without any interference).

There are no electrical connections to be made, no soldering, no batteries, etc. Installing the HP-202 is a matter of connecting the CB whip to the HP-202 and then running the leads from the HP-202 to the antenna inputs on the CB rig and car radio. It is then necessary to use an SWR bridge or FSM to repeak the output of the CB rig by means of a trimmer in the HP-202 which is accessible through a hole in the case.

While reception on the broadcast band was generally improved, we found that with the investment of a few cents we were able to easily modify the HP-202 to give really *outstanding* performance in dragging the weakest broadcasting stations out of the hash. There is a 680 ohm resistor in the "broadcast-receive" side of the HP-202's circuit; this should be removed and replaced with a 15 uh RF choke (Miller 4624), which should be soldered into the circuit. Don't worry about locating the 680 ohm resistor if you're not technically inclined—it's the only resistor in the whole 3 component circuit. You should then repeak your broadcast receiver by means of the antenna trimmer located under the dashboard. If your receiver doesn't have this trimmer, install a 2-30 uufd trimmer capacitor (Lafayette C-731) in series with the choke and peak it for maximum reception around 1050

kc/s. This will give you an exceptionally *hot* broadcast receiver while sacrificing an insignificant *sixteenth* of a watt (or so) from your CB rig for the broadcast receiver's use of the CB antenna. It's well worth it, especially if you roam into areas where broadcast reception is weak or noisy.

The HP-202 is available from Lafayette Radio, Dept. S9-G4, P.O. Box 10, Syosset, L. I., N. Y.

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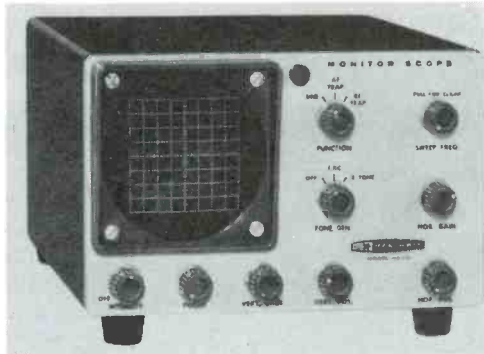
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When you join the ACDA you will have **nobody** telling off the FCC in your name; the ACDA will **not** try to sell you beanie hats and red shirts; we **will not** assess you with a tax; we **will not** announce officers before the election (because we don't have officers); and we **will not** do anything else that you would rather we did not do! Anyone can join!

A membership in the ACDA brings you an outrageous, zany and chintzy membership certificate suitable for wall mounting (mount it **only** if you really are a **true** independent and don't give a hoot what your friends think of you) or for blotting up ginger-ale puddles; you also receive the next 12 issues of CB's **most infuriating**, free-thinking, and helpful monthly publication, **S9**. Belonging to ACDA gives you **full** rights to condemn any Association which is detrimental to CB. Membership for 1 year is only \$5 (including the S9 subscription), 2 years \$9, 3 years \$13. Use the form inserted between pages 56 and 57 of this issue, be sure to mark it "ACDA" on the front. If you already subscribe you can still obtain a certificate by sending a self-addressed and stamped envelope to "ACDA" in care of S9, enclosing the address strip with your name from the back cover of a recent issue.

**OFFER LIMITED, SO HURRY!**



percentage to relative output power. And when something goes haywire, the trouble shows up bright and green on the screen. But try to hook a regular scope to a CB rig. There are problems; like getting connections directly to the scope tube, burning a spot in the screen or getting enough RF for a good pattern. These bugs are neatly solved in the new Heathkit HO-10, a compact monitoring scope originally designed for ham use, but now updated for CB. Sensitivity is now high enough for CB transmitters.

The kit itself can be built by anyone who knows the hot end of a soldering iron and is willing to carefully follow Heath's clear and well-illustrated instruction manual. After some 18 hours of construction time our kit was plugged in, worked the first time. The completed instrument can be checked out by looking at the screen as you turn the knobs, though an ohmmeter is handy for some quick checks, as suggested in the manual.

Hooking the scope to a CB rig is simple. For the envelope pattern it hooks into the CB antenna line through coax connectors. In the diamond-shaped trapezoid, which is easiest to view while talking into the mike, an additional connection is detailed by the manual for picking up an audio signal.

Not only will the HO-10 give a running account of the transmit signal, but can also provide similar pictures of signals you receive over the air. Here, the scope ties into the receiver. Another area is testing. The instrument has a built-in audio tone generator which can feed a steady tone into the rig. This produces a pattern on the screen which is helpful for pinpointing a variety of troubles in the audio or RF sections of the transceiver.

Green light hopping around a scope screen means nothing unless you can interpret it correctly. So Heath devotes seven pages at the end of the manual which illustrate and explain dozens of different possibilities, including good and bad signals.

If you order the kit, be sure to specify that the special CB components be included: Coil #40-187 and Capacitor #20-98.

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## How To Get 4 New CB Features At The Same Low Price...



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In addition, a TVI filter is incorporated to minimize interference with TV sets. And a new calibrated "S" meter automatically shifts from transmitter to receiver to indicate strength of received signals or relative power output during transmit.

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# CB Accessories

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ELENCO MODEL LR-1 LONG RANGER  
BI-LATERAL LINEAR RF POWER AMPLIFIER



\$129.95

- \*Connects in coax line between transceiver and antenna
- \*Automatic electronic switching
- \*10 times (10 db) power gain on transmit signal; up to 60 watts carrier output, depending on RF drive power and mode.
- \*Three S units gain on received signal.
- \*Factory tuned, ready to go into 50 ohm coax.
- \*Can be operated remote control.
- \*Will operate mobile with inexpensive 12V DC to 115V AC inverter.

ELENCO L200 SERIES LINEAR RF  
POWER AMPLIFIER

\$150.00



- \*Up to 135 watts carrier output, depending on available RF drive power and mode.
- \*Connects in coax line between transceiver and antenna.
- \*Automatic electronic switching, transmit to receive.
- \*Set-and-forget tuning.
- \*Can be operated up to 100' away from transceiver.
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- \*Provides a very high level of talk power; makes 5 watts as effective as 20 watts (without compression).
- \*Has control to avoid overmodulation of signal to prevent spreading.
- \*Has front panel switch for local-distance operation.
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- \*Three wires to connect to set, complete instructions furnished for connecting to any set. Wired quick disconnect plug furnished.

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THE LONG RANGER IS THE ONLY LINEAR WHICH

ELENCO MODEL SW-1 SIDEWINDER



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- \*Converts sets putting out standard AM signal to a double sideband modulation controlled carrier signal (DSMCC)
- \*Function switch provides a low power position for local contacts; helps reduce interference.
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- \*Goes with the set on any voltage.

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# CARD SWAPPERS UNLIMITED

Swappers Awards are given to those readers who have sufficiently proven that they have reached certain specified levels of achievement in QSL card swapping. There are 19 different and distinctive Swappers Awards, and if you would like a complete set of rules, address your request together with a stamped, self-addressed envelope, to: Swappers Awards, S9 Magazine, 14 Vanderventer Ave., Port Washington, N. Y. 11050. Here are the winners of the black, red and gold certificates for the past month.

- |        |   |  |   |
|--------|---|--|---|
| SACA   | 172 John Adams, KEB2231, Fayetteville, Ark.                 | 139 William Holt, 2W7638, Dunellen, N. J.        |   |
|        | 173 Raymond Turek, KGC0267, Denver, Colo.                   | 140 William Wheaton, KBG8537, Hillside, N. J.    |   |
|        | 174 Jerry Barnes, KEB4580, Suffolk, England                 | 141 Matilda Leonhardt, KLM6123, Cincinnati, Ohio |   |
|        | 175 Frank Martz, KID0006, Hustontown, Pa.                   | 142 John Kasten, Brook Park, Ohio                |   |
|        | 176 George Masny, KKD3296, New York, N. Y.                  |  |   |
|        | 177 John Kasten, Brook Park, Ohio                           |  |   |
| PX-25  | 313 Vincent Goodnuff, Belleville, Mich.                     | PX-150   | 120 George Solomon, KKG3692, Hellertown, Pa.  |
|        | 314 Tom Whitehurst, KDB9189, Tuscaloosa, Ala.               |  | 121 Glenn Davis, 18B2648, Chicago, Ill.       |
|        | 315 Albert Gourley, KLK7870, Jacksonville, Ill.             | PX-175   | 111 Eddie Becker, KCG0706, Alexandria, Va.    |
|        | 316 Jim Bowcutt, KFA6460, Hacienda Heights, Calif.          |  | 112 Harold Channell, KCF1224, Alexandria, Va. |
|        | 317 David Moss, KLP7578, Endicott, N. Y.                    | PX-200   | 103 Frank Martz, KID0006, Hustontown, Pa.     |
|        | 318 George Flank, KCJ9080, Lynchburg, Va.                   |  |   |
|        | 319 Matilda Leonhardt, KLM6123, Cincinnati, Ohio            | PX-225   | 102 Stanley Penc, KJ13337, Utica, N. Y.       |
|        | 320 Emanuel Tavares Filho, PY1-1332, Rio de Janeiro, Brazil | MSA  | 133 Bert Fondren, KEG3491, Plainview, Texas   |
|        | 321 Richard Kuzma, KBC7900, Rutland, Vt.                    |  | 134 Frank Martz, KID0006, Hustontown, Pa.     |
|        | 322 Edson Worden, KKM4751, Huntsville, Ala.                 |  | 135 Fred Martz, KID0007, Hustontown, Pa.      |
|        | 323 Harry Nechetsky, KKP2504, Nieuveville, Fla.             |  | 136 John Kasten, Brook Park, Ohio             |
| PX-50  | 269 Larry Ray, KDE2110, Walhalla, S. C.                     | SSC-1  | 145 Larry Baker, KHH3909, Cabin Creek, W. Va. |
|        | 270 Don Brandt, Short Hills, N. J.                          |  | 146 Eddie Becker, KCG0706, Alexandria, Va.    |
|        | 271 Vincent Goodnuff, Belleville, Mich.                     |  | 147 Gene Coken, KCD3646, Bethlehem, Pa.       |
|        | 272 Bill Crosley, KHJ8624, Van Wert, Ohio                   | SSC-2  | 122 Eddie Becker, KCG0706, Alexandria, Va.    |
|        | 273 David Moss, KLP7578, Endicott, N. Y.                    |  | 123 Stanley Penc, KJ13337, Utica, N. Y.       |
|        | 274 Matilda Leonhardt, KLM6123, Cincinnati, Ohio            | SSC-8  | 103 Frank Martz, KID0006, Hustontown, Pa.     |
|        | 275 Emanuel Tavares Filho, PY1-1332, Rio de Janeiro, Brazil |  | 104 Fred Martz, KID0007, Hustontown, Pa.      |
|        | 276 Richard Kuzma, KBC7900, Rutland, Vt.                    | SSC-9  | 103 Fred Martz, KID0007, Hustontown, Pa.      |
|        | 277 Edson Worden, KKM4751, Huntsville, Ala.                 |  |   |
|        | 278 Raymond Myers, KJ12853, Binghamton, N. Y.               | SSC-10   | 103 Fred Martz, KID0007, Hustontown, Pa.      |
| PX-75  | 206 Lois Lowell, KCD6109, Sellersville, Pa.                 |  |   |
|        | 207 Gene Coken, KCD3646, Bethlehem, Pa.                     |  |   |
|        | 208 Dick Dill, KHC0280, McLeansboro, Ill.                   |  |   |
|        | 209 Gus Feltner, KEE2893, New Braunfels, Texas              |  |   |
|        | 210 Herb Girard, KBD0747, Woonsocket, R. I.                 |  |   |
|        | 211 David Moss, KLP7578, Endicott, N. Y.                    |  |   |
|        | 212 Matilda Leonhardt, KLM6123, Cincinnati, Ohio            |  |   |
|        | 213 Richard Kuzma, KBC7900, Rutland, Vt.                    |  |   |
|        | 214 Raymond Myers, KJ12853, Binghamton, N. Y.               |  |   |
| PX-100 | 191 Johnny Pearson, KDE0146, Nashville, Tenn.               |  |   |
|        | 192 Lois Lowell, KCD6109, Sellersville, Pa.                 |  |   |
|        | 193 Gene Coken, KCD4636, Bethlehem, Pa.                     |  |   |
|        | 194 Jerry Barnes, KEB4580, Suffolk, England                 |  |   |
|        | 195 Herb Girard, KBD0747, Woonsocket, R. I.                 |  |   |
|        | 196 Matilda Leonhardt, KLM6123, Cincinnati, Ohio            |  |   |
|        | 197 Frank Dykeman, KJ12293, Herkimer, N. Y.                 |  |   |
|        | 198 Arthur Lima, Stonington, Conn.                          |  |   |
|        | 199 Richard Kuzma, KBC7900, Rutland, Vt.                    |  |   |
| PX-125 | 135 John Adams, KEB2231, Fayetteville, Ark.                 |  |   |
|        | 136 Glenn Davis, 18B2648, Chicago, Ill.                     |  |   |
|        | 137 Raymond Turek, KGC0267, Denver, Colo.                   |  |   |
|        | 138 Jerry Barnes, KEB4580, Suffolk, England                 |  |   |

If you would like to be listed as a QSL card swapper in our monthly listing, you must do the following: send us a separate card for each month you would like to be listed (you may send several month's worth of cards at the same time), and enclose 10¢ in cash (no stamps, checks, or money orders) for each month you are to be listed. Try not to write on your cards and don't Scotch Tape your dime to the card. Address the material to: Card Swappers Unlimited, 14 Vanderventer Avenue, Port Washington, N. Y. 11050. Deadline for listing in the December issue is October 12th.

Our Swappers' listing is a bit shorter this month than usual. Our 10¢ charge seemed to have the desired effect of weeding out many of the deadbeats who send in huge batches of cards without any intention whatsoever of actually swapping.

Here are this month's swappers:

- |         |  |
|---------|--|
| 1Q2577  | Warren Manchester, RFD 4, Esmond, R. I.              |
| 1Q6865  | Tom Howarth, 52 Lincoln St., Esmond, R. I.           |
| 2Q1147  | George Delaney, 308-47th St., Union City, N. J.      |
| 5Q0577  | Fred Harris, Rt. 3, Gate City, Va.                   |
| 6Q0914  | Paul Skidmore, Box 243, Rockwood Rt. 1, Tenn.        |
| 6W4390  | Claude Witt, 206 Dunbar Lane, Crossville, Tenn.      |
| 6W5143  | William Harris, P. O. Box 55, Church Hill, Tenn.     |
| 11Q1313 | G. Strainline, 1171 W. Miracle Mile, Tucson, Ariz.   |
| 11Q2714 | Eileen Inne, 530 Catalina Dr., Newport Beach, Calif. |
| 17W3325 | Pete Nosler, 1144 Pineridge, Wichita, Kans.          |

17W5449 H. Hawkins, Rural Route 1, Box 86, Fair Grove, Mo.  
18B2648 Glenn Davis, 6143 N. Rockwell St., Chicago, Ill.  
18Q4913 Tom Leadbetter, R. R. 4-Box 40, Muncie, Ind.  
18Q8866 Richard Cary, Rt. 4, Box 176, Russell Springs, Ky.  
18QA1528 Fred Schuemelfeder, 316 West Park Rd., Round Lake, Ill.  
19A5964 Stan Sickler, 2310 Commor, Hamtramck, Mich.  
19Q0707 Jim White, Box 108, Syracuse, Ohio  
19Q8423 J. Biggins, 306 East Chestnut St., Lisbon, Ohio  
19Q9941 Martin Ripper, 7617 Cavell, Garden City, Mich.  
19QA0442 Art DeFrain, Harbor Beach, Mich.  
20Q0255 Philip Lundy, 48 Sodus St., Clyde, N. Y.  
20Q1360 Ivan Smith, 419 Water St., Danville, Pa.  
KBA2454 Marty Straus, 151 Whipple Rd., Esmond, R. I.  
KBA5534 Henry Fahs, Beacon Hill, Easton, Conn.  
KBA5557 Ted Cummings, Bellflower Rd., Billerica, Mass.  
KBA9135 Grace Straus, 151 Whipple Rd., Esmond, R. I.  
KBA9470 Isabel Howarth, 52 Lincoln St., Esmond, R. I.  
KBC3057 Larry Brokalis, 185 Woodbury Rd., Burlington, Vt.  
KBC4381 John Kapinos, 52 South St., Easthampton, Mass.  
KBC9307 Jim Dooley, 115 Bartlett St., Charlestown, Mass.  
KBD0423 Ernest Ford, 28 Bowdoin St., Providence, R. I.  
KBD0454 Ed Harhausen, 20 School St., No. Woburn, Mass.  
KBD0747 Herb Girard, 348 Carrington Ave., Woonsocket, R. I.  
KBD1936 Art Lima, 4 Denison Ave., Stonington, Conn.  
KBD2689 L. Dawson, RFD 3, Houlton, Maine  
KBG7387 Gerry Schechter, 3535 Kings College Place, New York, N. Y.  
KBG7687 Robert Thatcher, R. R. 1-Box 59-82, Hudson, N. Y.  
KBG8079 Alvin Allen, 610 Prospect Ave., Spring Lake, N. J.  
KBG8332 Ed Martinson, Box 193, East Nassau, N. Y.  
KBG8573 Bill Wheaton, 270 William St., Hillside, N. J.  
KBG8853 Joe Drexler, 207 Bremond St., Belleville, N. J.  
KBH1789 Dick Fuhrman, 1631 Alta Pl., Dubuque, Iowa  
KBH1456 Earl Kirm, Box 666, Port Ewen, N. Y.  
KBH3455 John James, 299 1/2 Lark St., Albany, N. Y.  
KBH6661 Bob Buchanan, 79 Bayard Lane, Princeton, N. J.  
KBH9557 Mitch Berson, 6745 Kissena Blvd., Flushing, N. Y.  
KBH6983 George Brandt, 1297 Myrtle St., Hillside, N. J.  
KBH7793 Anna Kirm, P. O. Box 666, Port Ewen, N. Y.  
KBH8077 John Krejc, 60 Division Ave., Garfield, N. J.  
KBH1722 George Hunt, 353 Highland Ave., Middletown, N. Y.  
KBH1921 Paul Peifer, 117 No. Montgomery St., Valley Stream, N. Y.  
KCC2443 Bill Keefer, 31 N. Queen St., Littlestown, Pa.  
KCD2123 Henry Sues, 1812 Eberts Lane, York, Pa.  
KCD2164 Ruth Stirling, 3 West Shore Dr., RFD 3, Vincentown, N. J.  
KCD2949 Henry McGann, 2054 Swatara, Harrisburg, Pa.  
KCD4607 Joseph Wunder, 107 West Meyran Ave., Somers Point, N. J.  
KCD5222 William Wright, R. D. 1, Green Lane, Pa.  
KCD5385 William Wright, R. D. 1, Green Lane, Pa.  
KCD5410 Bill Rogers, 224 Tuscanry Rd., Maple Gardens, Chester, Pa.  
KCD5785 Donald Snader, 624 Ave. 'A', Glenside, Reading, Pa.  
KCD6109 Lois Lowell, R. D. 2, Sellersville, Pa.  
KCE0146 Oliver Mayberry, 135 Chestnut St., Pottstown, Pa.  
KCF0329 Willie Lindsey, 10 E. 21st St., Baltimore, Md.  
KCF1224 Harold Chamell, Box 126, Alexandria, Va.  
KCG1087 Barney Ross, 425 Garden St., Washington, D. C.  
KCG1648 J. W. Smith, R. R. 2, Jane Lew, W. Va.  
KCG3068 Ricky Lowman, 1001 W. Addition St., Martinsburg, W. Va.  
KCG3689 Jane Ross, Box 188, Eastville, Va.  
KCG3739 Eunice Martin, 124 Scott Dr., Manassas Park, Va.  
KCG3970 Kenneth Hogue, R. 1, Beverly, W. Va.  
KCG4106 Dave Royer, Rt. 1-Box 133, Finksburg, Md.  
KCI2842 Clarence Moore, Rt. 4, Box 34, Thomasville, N. C.  
KCI2904 Jim Rawles, 7008 Belvedere Dr., Newport News, Va.  
KCI2292 Hazel Stubbs, P. O. Box 1076, Rockingham, N. C.  
KCI2780 R. K. Harris, 513 McDonald Ave., Charlotte, N. C.  
KCI3489 Tom Marvin, 2833 Richmond Henrico Twpk., Richmond, Va.  
KCI4109 Chuck Cunningham, Lot 69 Davidson's Trl. Pk., Hinesville, Ga.  
KCI4314 Denis Jackson, 1316 Grove St., Greensboro, N. C.  
KCI5002 J. L. Kirkland, Rt. 5, Raleigh, N. C.  
KCI8028 Buck Buchanan, 2923 West Marshall St., Richmond, Va.  
KCI8765 T. L. Matlock, RFD5, Box 558, Greensboro, N. C.  
KCI9742 J. A. Gupton, 3242 Selwyn Ave., Charlotte, N. C.  
KDB4928 Paul Sheriff, 312 Piedmont St., Westminster, S. C.  
KDB9189 Bob Whitehurst, 25 Arcadia Dr., Tuscaloosa, Ala.  
KDC0215 Dan Gooding, 1230 Westmorland, Ypsilanti, Mich.  
KDC0359 Joe Swansiger, 47 Inverness Rd., N. Madison, Ohio  
KDC0666 Maynard Kirk, 2041 Council Ave., Lincoln Park, Mich.  
KDC0750 Lyle Nielsen, 3256 Farley St., Hint, Mich.  
KDC1358 W. L. McKeever, Box 573, Lakeside, Ohio  
KDC2257 Larry Rochelle, 3281 Warringham, Drayton Plains, Mich.  
KDC2313 Chuck Spain, 3113 Bessie St., Auburn Heights, Mich.  
KDD1522 Don Huntley, P. O. Box 2642, Asheville, N. C.  
KDD7568 William Beem, P. O. Box 52, Russellville, Ala.

KDD8403 Lloyd Coop, 506 E. General St., Tullahoma, Tenn.  
KDD9162 Irene Beem, P. O. Box 52, Russellville, Ala.  
KDE1427 Mike Kennedy, 315 S. Cedar Bluff Rd., Concord, Tenn.  
KDE2033 Robby Hoyle, Rt. 5, Box 515, Shelby, N. C.  
KDE2067 Jimmy McReynolds, 406 W. "D" St., Elizabethton, Tenn.  
KDE2266 Richard Bolding, 805 W. Crawford St., Dalton, Ga.  
KDE3037 Claude Cole, Rt. 5, Elizabethton, Tenn.  
KDH1318 Robert Dwyer, 105 McKinley Ave., Cocoa Beach, Fla.  
KEB1661 Bob Fancher, Darling, Miss.  
KEB2231 John Adams, 920 Vandewater, Fayetteville, Ark.  
KED0572 Vernelle Cates, 2708 Virginia St., Baytown, Texas  
KEE1416 Vernon Ryman, 53 Vinca Ct., Lake Jackson, Texas  
KEE2031 John Wasson, 334 Cypress, Lake Jackson, Texas  
KEH0131 Richard Cline, 915 S. E. 1st St., Mineral Wells, Texas  
KEH1105 Fred Kimbro, 213 N. Edmond, Muskogee, Okla.  
KEH4157 Bill Shoemaker, Rt. 1, Box 144, Skiatook, Okla.  
KEH4368 Lou Fancher, 820 Evergreen, Killeen, Texas  
KEH7235 John Glover, 2428 Hugo St., Dallas, Texas  
KEJ5828 John Hamner, 12350 S. Fern Ave., Ontario, Calif.  
KEJ5869 Johnnie France, Box 4146, Riverside, Calif.  
KFA6460 Jim Bowcutt, 1521 So. Larchwood, Hacienda Heights, Calif.  
KFA9923 Helen Morse, P. O. Box 1395, Ontario, Calif.  
KFB0248 Frank Neal, 3120 Leonard St., Bakersfield, Calif.  
KFC3866 Rex Mathews, 407 Potomac Ave., Sacramento, Calif.  
KFD2055 Chuck Boehne, P. O. Box 223, Los Gatos, Calif.  
KFD5811 Larry Klueder, P. O. Box 183, Oroville, Calif.  
KFG1731 Judd Bressler, 2792 Commercial St. S. E., Salem, Oreg.  
KFI1219 Jack Sudduth, 8103 16th S. W., Seattle, Wash.  
KFJ0479 Agnes Sudduth, 8103 16th S. W., Seattle, Wash.  
KGC0267 Ray Turek, 137 Teal St., Denver, Colo.  
KGC1311 Bruce Holt, 2639 Summit Dr., Colorado Springs, Colo.  
KGC2078 Lew Campbell, 645 W. Organ Ave., Las Cruces, N. M.  
KGC2289 Rosalie Danielson, 3188 9th St., Boulder, Colo.  
KGE0071 Jackie Wera, 216 Olmstead St., Winona, Minn.  
KGF0592 Rod Basham, 810 E. 36th St., Minneapolis, Minn.  
KGH3743 Gordon Hamner, 319 East 8th, Wellington, Kansas  
KGI7662 Ralph Sheets, 1628 Cherry St., Dallas Center, Iowa  
KHA5529 Robert Britton, 1434 S. 71st St., West Allis, Wisc.  
KHA5770 Charles Rigney, R. R. 1, Box 82, Markleville, Ind.  
KHA9476 Bobby Murphy, Rt. 5, Valparaiso, Ind.  
KHB2646 Richard Burns, 921 East Curtis Ave., Decatur, Ill.  
KHC5181 Ernie Wagner, Ashley, Ill.  
KHC8813 Dick Burdge, Box 197, Liberty Center, Ind.  
KHD1193 Ed Wolf, 308 Edwardsville Rd., Wood River, Ill.  
KHD2772 Al & Irene, Box 421-A-1, Spring Grove, Ill.  
KHD3518 Carolyn Wagner, Ashley, Ill.  
KHD4475 Armon Allen, 53 Karstew Dr., Wahiawa, Hawaii  
KHD4705 George Newberry, 1027 W. Douglas St., Freeport, Ill.  
KHD5225 John Ulman, 4303 Dearborn Ave., Hammond, Ind.  
KHD5446 Don Black, 2737 Shippen, Louisville, Ky.  
KHD7375 Joe Winfield, 1671 S. Boeke Rd., Evansville, Ind.  
KHD7623 Hadley Hitchcock, 1818 12th St., Moline, Ill.  
KHD8210 Adelaide Harris, R. R. 5, North Vernon, Ind.  
KHG1923 Bob Gillespie, 31805 Densmore Rd., Willowick, Ohio  
KHG9554 Kenny Roberts, 1584 Stewart Rd., Lima, Ohio  
KHH1363 Geo. Radenheimer, 3121 Andrew St., Middletown, Ohio  
KHH2435 Basil Lyon, P. O. Box 216, Caledonia, Ohio  
KHI2703 J. R. McClure, Rt. 1, Box 217, Yawkey, W. Va.  
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KHI2952 Bill Culver, 119 East Brooks, Howell, Mich.  
KHI8546 Bill Rosen, 4334 McKee St., Latonia, Ky.  
KHJ9979 Gene Taylor, 121 N. Adolph Ave., Akron, Ohio  
KHJ1478 Bill Brandell, 309 Denver Ave., Lansing, Mich.  
KHJ2097 Rick Hilberg, 3403 W. 119 St., Cleveland, Ohio  
KHJ6071 Lela Roberts, 1548 Stewart Rd., Lima, Ohio  
KHJ6923 Betty Bell, 305 Michigan, Pontiac, Mich.  
KHJ7131 Khj7131 Ken Massie, 115 Woodlawn Dr., Ironton, Ohio  
KHJ7270 Bob Wilkinson, 500 Magnolia Ave., Cuyahoga Falls, Ohio  
KHJ7916 Jan Kasten, 5916 Westbrook Dr., Brookpark, Ohio  
KHJ8472 Doug Thrasher, 1164 Lindsay Ave., Akron, Ohio  
KHJ8624 Bill Crosley, 409 National Court, Van Wert, Ohio  
KHJ9508 Jim Fosnough, P. O. Box 674, Killeen, Texas  
KHJ9558 Ed Leonhardt, 3518 Smithfield Lane, Cincinnati, Ohio  
KIC0172 Bob Rogers, 227 Green St., Wilkinsburg, Pa.  
KIC1185 Curt Hammond, Box 85, Rensselaer Falls, N. Y.  
KIC2881 Mike Ripiski, 72 Mooney Rd., Plymouth Twp., Pa.  
KIC5753 Art Kretschmer, Leicester Rd., Caledonia, N. Y.  
KID0007 Fred Martz, Hustontown, Pa.  
KID0435 Emerson Stanton, 609 Fern St., Clark's Summit, Pa.  
KID4964 Amos Hennig, 53 Riverside Dr., Canton, N. Y.  
KID5225 Harry Platt, R. D. 1-Shaw Rd., Conklin, N. Y.  
KID6303 Ted Bluey, 422 S. Fifth St., Jeannette, Pa.  
KID6505 Roscoe Harrington, 5 Schuyler St., Hudson Falls, N. Y.

KID6623 George Kline, 508 Monroe St., Jamestown, N. Y.  
 KID7260 Stan Breitkopf, 271 Stanton Lane, Rochester, N. Y.  
 KID8884 Eddie Culver, 12 Whitman Pl., Tonawanda, N. Y.  
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 KIE0370 Elton Shaw, 718 Oak St., Elmira, N. Y.  
 KIE0628 Al Gully, R. D. 3 -Box 392, Coraopolis, Pa.  
 KIE0969 Bill Gaylor, Hinsdale, N. Y.  
 KJE0073 James Walker, C-O Postmaster, Round Hill, Va.  
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 KKR3995 Richard Guidry, 3046 Canonicus St., Baton Rouge, La.  
 KKT2015 B. R. Kazmierski, 4410 Brady St., Houston, Texas  
 KKV1343 Ken-Ten CB Club, 915 S. E. 1 St., Mineral Well, Texas  
 KXX1777 Barney Franke, Rt. 1-Box 611 F, Tucson, Arizona  
 KXX2108 Lewis Mann, P.O. Box 2, Victorville, Calif.  
 KXX2834 Bessie Strainline, 1171 W. Miracle Mile, Tucson, Ariz.  
 KXX5201 Dale Fletcher, 54728 El Prado Trail, Yucca Valley, Calif.  
 KLA0346 Art Machado, P. O. Box 132, Sonoma, Calif.  
 KLA1239 Toby Pierce, 2631 Kelley Ave., San Pablo, Calif.  
 KLA1292 Angelo Perfette, 614 Sutter St., Vallejo, Calif.  
 KLA1969 Art Schifferman, 7558 Heatherwood Dr., San Jose, Calif.  
 KLA3944 Wanda Machado, P. O. Box 132, Sonoma, Calif.  
 KLE0029 Leo LeVasseur, 8051 S. E. Lambert, Portland, Oreg.  
 KLE0892 Earl Willis, 1430 No. Lorraine St., Wichita, Kansas  
 KLF1305 George Johnson, 312 Pine St., Sparta, Wisc.  
 KLH1945 John LeBosquet, 535 Brookfield Rd., Wichita, Kansas  
 KLH7379 Marilyn Sheets, 1628 Cherry St., Dallas Center, Iowa  
 KLH7458 Chuck Stagner, 3833 East 68th St., Kansas City, Mo.  
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 KLP5005 Bud Fowkes, 1031 5th Ave. -Box 261, Dunncansville, Pa.  
 KLP6039 William McKenna, 1354 Davis St., Elmira, N. Y.  
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 KLP7977 Jim Pula, 37 Clinton St., New York Mills, N. Y.  
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 XM22444 Paul Cross, 9758 145 St., Edmonton, Alberta, Canada  
 XM441606 Puddle Jumper's, Box 88, Wheatley, Ont.  
 XM49405 John Burnup, 926B Cummings Ave., Ottawa, Ont., Canada  
 XM49466 Margaret Burnup, 926B Cummings Ave., Ottawa, Ont., Canada  
 XM521185 Wally O'Reilly, 2674 Rosemont Blvd., Montreal, Que., Canada  
 XM521376 Jules Provost, P. O. Box 125, Lachine, P. Q., Canada  
 XM531130 Norbert Bilodeau, 315 Montreal St., Sherbrooke, Que., Canada  
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 Cen. 1430 Glenn Speck, 710 E. 6th St., Coffeyville, Kans.  
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 WPE2JFN George Masny, 299 E. 8th St., New York, N. Y.  
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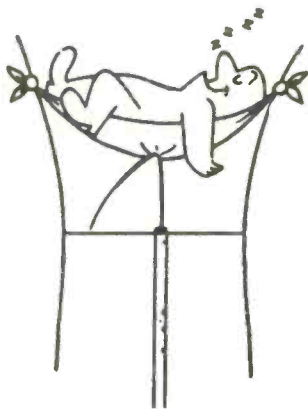
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# ANTENNAS

by LEN BUCKWALTER, KBA4480

## NEW ANTENNA RULES

In its overhaul of CB regulations which go into effect next month, the Commission did not overlook antennas. Though prodded by many CBers to relax the 20-foot rule, the changes proposed back in 1962 have come through pretty much intact. To find out what the new antenna rules means, let's consider them in detail. Some CBers may have to do some mast-climbing come Nov. 1, but it's a safe guess that most antenna installations today can remain untouched and be perfectly legal.

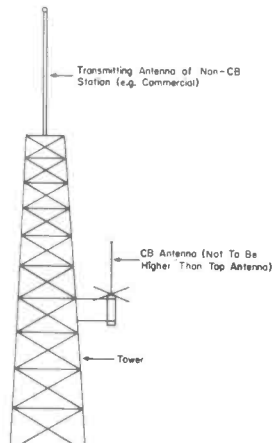
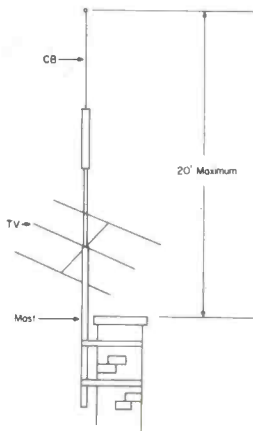
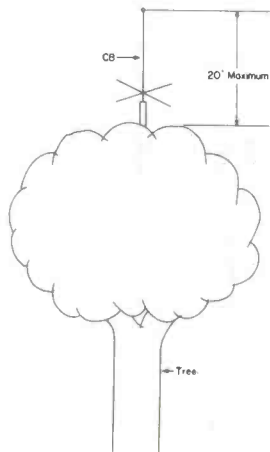
The revised regulations are designed to clarify the old 20-foot rule and stave off confusion about what it really means. They also prevent dodging the law with, say, such rambunctious techniques as hauling an antenna to cloud height with a hydrogen-filled balloon.

Most significant change is in the section headed "Limitations on Antenna Structures." The original wording was open to some interpretation. It stated the key requirement: an antenna shall not exceed 20 feet in height above any man-made structure or natural formation. One exception was that if

mounted on the antenna structure of *another station*, it shouldn't exceed the height of that antenna. Some found loopholes. What is meant by "another station" . . . or "man-made structure?" In the new rules the Commission tightens up definitions. Most important is what a man-made structure is not. The rules now say that a man-made structure is any construction *other than* a tower, pole or mast. And they go further to include supports for *receiving* antennas. If you want to mount a CB antenna on a mast used for TV reception, for example, there are now limitations. The first is that you can't exceed the TV antenna height. Even more important: the TV mast itself would also have to meet the 20-foot rule. Stated another way, a TV-CB combination cannot, all told, be more than 20 feet above a natural or man-made structure.

A new word has slithered into the old 20-foot rule. Aside from *man-made* and *natural* we see "tree." You *can* use a tree as a mast, but don't exceed its height by 20 feet.

The matter of mounting on an existing antenna structure is also narrowed down. It was vague in the old rules—simply a reference to "another station." Now they specifically refer to an authorized transmitting sta-





tion. This would mean a station licensed by the Commission and thus is expected to have already met height restrictions of another service. Another rules addition occurs for CB antennas *not* mounted on a natural or man-made structure. In this case, maximum height is 20 feet above *ground* level. The word "ground" appears for the first time in the antenna rules section.

The rewritten regulations appear not to strike at any widespread evils in antenna mounting, but to impress the CBer that the sky's not the limit. Big towers, in the guise of TV masts, are clearly out.

During the year or so that these changes were pending, there were a fair amount of letters to the FCC from interested CBers about antennas. Most commented that, in writing the new regulations, the Commission should ease up on certain restrictions. Not only did these CBers give some good arguments, but there are definite signs that their comments could change the rules, perhaps in the near future. A major factor, which the Commission admits, is that some CB stations have a height advantage over their neighbors. I recall my most fabulous antenna location; some 250 feet above ground—atop an office building. In another location it was reduced to a low garage roof. This kind of inequity can be seen throughout the country. The Commission answers it by pointing to the source of the 20-foot rule. It is the Federal Aviation Agency. This bureau feels that 20 feet above ground man-made or natural formations present no hazard to aircraft. And as told to this reporter by one FCC official, it would be impossible to process each CB license to discover if a height increase would present an obstacle to aircraft. So the old 20-foot rule persists to protect tail-dragging Piper Cubs.

Further support of this concept is evident in the tough antenna regulations which cover CB stations other than Class D. In some instances, the use of towers requires beacon lights to be checked daily for proper operation, reports to local air-traffic authorities in the event of failure, cleaning and repainting, keeping a supply of spare lamps and other rigid requirements.

One compelling argument offered by some CBers to the Commission called for raising antenna height to a 30-foot or 40-foot limit. It was a good argument with constructive reasons to back it up. This increase, they believe, would permit the use of antenna types of lower radiation angles. Not only would groundwave coverage be improved, but such antennas would reduce skip—and therefore cut down on interference to distant stations. The Commission agreed

that such benefits were possible, but did not act on the recommendation. Reason: the slight advantages are outweighed by the uniform and safe 20-foot rule.

That there is a possible change in the wind for antenna regulations is evidenced by the Commission's reaction to one group of comments. These letters pointed out that even though the CBer mounts his antenna in accordance with the 20-foot rule, nearby obstructions—trees, power lines, etc.—can shield his antenna, ruining communications. The constructive suggestion: an antenna should be permitted a mounting height *at least as high* as nearby shielding objects within a certain radius. The Commission did not write this into the new rules, but (and this is an important "but"), it said it was aware of the problem. It stated that it will continue to study possible solutions and perhaps consider it in future rules.

Suffering CBers everywhere would cheer such a change. As anyone hemmed in by 50-foot oaks or butted under a next-door house already knows, these can blot big chunks out of an antenna's coverage pattern. If you number among the obstructed, you might be able to do something about it. There's no certainty that the new rules will be proposed, but if they are, your comments can have a big impact if handled correctly. Here are some tips:

(1) A comment to the Commission must be sent with 14 copies. (This requirement never fails to provoke a groan when announced at a club meeting. The reaction is senseless: this many copies are needed to pass around to various officials. Just use carbon and a typewriter.)

(2) Don't make your comment a vote, like "I think the new proposal is a great idea," or "It's lousy!" The FCC thinks in terms of the whole citizens radio service and not individual need. The comment, therefore, must state *why* it will be for the good of CB radio. Try to be constructive. Ask yourself whether your suggestion is in the "public interest, convenience or necessity," the words guaranteed to warm the heart of FCC personnel from Chairman Henry down to the guy who fixes the radiator. If your comment serves any of those three phrases, it'll get attention.

(3) And don't forget to write. The number of comments on the rules just passed were a piddling one-half of one percent of all CBers. Your letter, even if in total disagreement with the Commission's position, won't be handed over to the FBI for further action.

Watch for the new proposals. If and when they appear, you'll see them discussed here.



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**New appointments to the APRE program this month include, Charles R. Alsip, 827-B Herian Place, APO958, San Francisco, California; A. Andrews, 232 Kathryn Street, Mason, Michigan.**

Tri-State CB Club Jamboree, Levi-Jackson State Park, London, Kentucky, October 3rd and 4th. Contact: Carl Harris, KHH0946, 208 N. Ford Street, Corbin, Ky. Fun for the entire family. Bring your QSL cards.

October 11th, Bell City CB Radio Club Jamboree, Lake Compounce, just off Route 72, Bristol, Conn. Contact: Ted Singleton, 79 Lillian Road, Bristol, Conn.

The 1964 Maumee Valley CB Round-up, largest one-day CB gathering, Sunday, September 20th, at the beautiful Memorial Coliseum, Fort Wayne, Indiana.

CB Chicken Bar-B-Que Jamboree, Sunday, September 27th at Halfmoon Beach, on the Mohawk River, Crescent, New York. Contact: Stephen Stracher, 21 West Erie Street, Albany, New York.

CB Jamboree, sponsored by the Norwalk Nor-Watters of Norwalk, California. The event will be in conjunction with the Annual Norwalk Fair, October 24th and 25th at the Fairgrounds proper. Monitor channel 9 and 15.

The Bergen-Passaic Chapter of C.B.R.E.L. will hold its Pizza-Beer Party, October 16th, I.A.P.C. Lee Street, East Paterson. Donation of \$2.00. Meetings are held the third Tuesday of every month at the above. Coffee breaks are held every Sunday morning 9:00 a.m. to 12:00 a.m. at Marty Gold Pancake House, River Road, East Paterson, New Jersey. All CB'ers are welcome to attend.

Lincoln Trail CB'ers Inc., Paris, Illinois, is having their second annual HOOTENANNY November 5th, Sunday and will be an all indoor affair held at the Moose Hall in Paris, Illinois. Time 8:00 a.m. till ??? p.m. There will be numerous prizes and exhibits staged throughout the hall and continuous entertainment. Contact: Charles Yates, KHA4230, Chrisman, Ill. or Duke Jones. KHD5029, 121 Austin, Paris, Ill.

made in years." Jim is a member of the REACT Radio Patrol in Hagerstown and serves as Maryland staff member for the REACT teams in Maryland. Activity is slow in his area sometimes, even with the number of clubs which are visited by Jim in his little Hillman wagon. All hobbies were cast aside when Jim got the CB bug and he also is an agent for "Custom QSL's" which he and another CB'er originated. Any mobile units traveling on routes 11 and 40, be sure to give Jim a shout on channel 11. Jim's address is: 755 S. Potomac St., Hagerstown, Md. 21740.

## NORTHERN



Pictured above: Left to right—Officers of the Modulators CB Radio Club, Poukeepsie, N. Y., Beaver Nix, KB12422, Program Committee; President, Harry Elmendorf, KB18075; Secretary-Treasurer, Jane Johnson, KKD4895; and Peter Mackey, KB16223, program committee. The club holds two meetings a month, a business meeting and a social meeting on the 2nd and 4th Saturday of the month. Present membership is 18. The club meets at the Fairview Firehouse at 8:00 P.M. Club monitors channel 7, and are presently recruiting members.

Officers of the Southern Dutchess CB Radio Club are: President, Ray Scheeren, S9, A.P.R.E.; Vice President, Minard Conns, KB11539; Treasurer, Butch Geer, 2Q-6478; Secretary, Elvin Horton, KB16583; Radio Officer, Roger Lown, KB15426; Recruiting Officer, Ed Cooper, KKD4933. A new listing of Volunteers for Emergency Service in Dutchess County and nearby areas will be put in booklet form and will go to the printers the end of October. Contact Ray Scheeren, KB15668, RD 3 Box 25, Hopewell Junction, New York or call CA 6-2971, if you are interested to be listed. Booklets will be distributed free of charge to all police and fire agencies, conservation dept. and interested parties. The Dutchess club monitors channel 15.

Newly elected officers of the Friendly Communications Club of CB Radio include: President, L. D. Snyder; Vice President, Bill Roberts, KID0234; Secretary, Millie Cash; Treasurer, Ken Vrooman, KIC5557. Present club membership is 32 and growing.



## A.P.R.E. PROFILE, Jim Cross, KCF0823

Among the original Area Public Relations Editors is James (Jim) M. Cross, KCF0823, better known as "the Maryland Road Runner" or "the Lawman" throughout the CB world, due to swapping over 8,000 cards through the years. Jim and his wife, Doris, with their two sons, Randy and Scott, along with a new arrival on July 11, 1964, their first daughter Cindy, live in Hagerstown, Maryland. Jim served 6 years in the army, 5 of those being in Germany. He has been with the city police for the past 10 years, now with the rank of Desk Sergeant. Jim was one of the first in his area to have Citizen Band radio (with the call of 4W2381). Writing for CB Horizons for a short period of time, Jim made the big switch to S9, which Jim says "was the best move I have



The Junior Crystals of New Jersey is a new club just organized this year. It was formed by two members of the C.B.R.R.L. Bergen-Passaic Chapter. The two members are: Nora Scherrer, KB19736, and her husband Art Scherrer, KB12453, of Saddle Brook, New Jersey. Nora and Art have worked very hard to make this club successful in every way.

Meetings are held every two weeks. Meetings were closed down for the summer due to vacation, but will be back in session September 18, 1964, and will be held every two weeks afterward. They are held at a different members house, each meeting.

We have our coffee breaks with the C.B.R.R.L. Bergen-Passaic Chapter every Sunday from 9 to 12 noon, at Marty Gold Pancake House, River Road in East Paterson, New Jersey.

The Junior Crystals would like to thank the C.B.R.R.L. for their help in starting these young CB'ers learn a working knowledge. We would like to thank especially the President, Jim Smith, KB18531, of the C.B.R.R.L. for telling everyone about us. Secretary: Bob Graham, KB11709, 6 Graham Court, Saddle Brook, New Jersey.

Western Mass. REACT Inc., recently held their annual elections, with President, Dave Morrisette, 1Q-5078; Vice President, Robert Black, KBA2049; Secretary, Robert Goyette, KBD3175; Treasurer, Joseph N. D. Desforges, 1Q2779. Western Mass. REACT was started in 1961 and became incorporated in 1963. It has at the present time 265 members not counting wives and units which are very active. Monthly meetings are held at the AMVETS Hall in Chicopee Falls after which a coffee break is enjoyed by all. The club recently acquired a room which they done over, and will be used for a monitoring station and is open to all members.

S9 Club Editor, John F. Kreje, and secretary, (she's a he) spent a very enjoyable evening with Everett Decker, "goodie man from Errol Engraving." S9 attended the Western Mass. Jamboree, sponsored by the Western Mass. REACT, Inc. This writer was treated to a secret tour of the "ranch," which included an eyeball and all sorts of canned "goodies." After leaving about A.M.—we hear Everett whipped his wife to continue wrapping the many QSL cards for the up coming jamboree. I recommend all CB'ers, clubs contact Errol Engraving, 36 Hampden Street, Westfield, Mass. for the list of "goodies." Hey Everett, you better check your stock, I think you may be short.

Recently formed is the Conemaugh Valley Communication Ass'n, with the purpose of Ass'n to provide a forum to discuss and exchange information and problems associated with the operation of CB. President, Robert Yeager; Vice President, H. Karl Rummel; Secretary, Donald Hamilton Sr.; Treasurer, Gustav Simanski, Cores. Secretary, James L. Lear. The C.V.C.A. operates in their own control center and renovations are being made for a meeting room, control room, kitchen, and lounge. The Ass'n meets the first and third Wednesday of every month at 7:00 p.m.

The Pine Tree Five Watters CB Radio Club of Bangor and Brewer, REACT Team provided communications for the 860th Medical Group of Dow AFB, during operation great effort, a simulated disaster control exercise conducted by this base in conjunction with NORAD Defense Sector. Local CB'ers maintained radio com-

munications between wing and group command posts, and all medical aid stations dispatching ambulance and reporting casualties and other pertinent medical information, further furnished casualty and radiological reports to Penobscot Control and Local CD agency. Many thanks are in order for those who took part in this operation and had to lose a day's work to make the Team Play a success.

Oct. 8th, 1964, will be the fourth anniversary of the Mt. Greylock Mobil-Ears Citizens Band Radio Club. This organization has actually participated in many local emergencies; in Civil Defense, and are members of the nation-wide REACT. It is one of the oldest Citizens Band Clubs in the area and has an active membership of fifty.

Our most recent and successful Civil Defense exercise was on July 16th, 1964. All CB'ers who took part were highly commended by local officials for their efficient and earnest cooperation. The exercise included an actual call for ambulance and police aid when an auxiliary policeman was injured in an accident. Constant communication was maintained between: mobile units (escorting ambulances), the local Hospital, Civil Defense Officials, city government officials, and the Police and Fire Departments.

Each year, the City of North Adams has a Fall extravaganza, the Fall Foliage Week. The beauty of the Berkshire Hills at this season of the year, is well known to many travelers. The people come from far and near to view the scenery and to take part in the week-long festivities. The final climax is the Parade with the Fall Foliage Queen and her Court, the beautiful competitive Floats, Marching Drum Corps, Drill Teams, and the many Political figures that join the line of march—the Kennedys, Conte, and other well known state personages. This Parade is the Fifth largest of its kind in the United States.

Equally climactic events during this week, Sept. 20th through the 27th, are the Fashion Show, Selection and Crowning of the Queen, a large Block Dance on Main St., and the Formal "FALL FOLIAGE BALL."

Of course, the Mt. Greylock Mobil-Ears supply the communications network throughout the entire Parade; at intersections for assisting Police in traffic control, along the route of march, and in the event of emergencies.

The three oldest clubs in the area had a joint picnic at Lake Lorraine, N. Y. (on the Troy-Bennington road) on August 23rd. The participating clubs were: Capitol District Citizens Band Club (Albany, N. Y.), Glens Falls Citizens Band Radio Club (Glens Falls, N. Y.), Mt. Greylock Mobil-Ears Citizens Band Radio Club (North Adams, Mass.).

The Mt. Greylock Mobil-Ears club meetings are held every third Wednesday of the month and visitors are welcome to attend. Refreshments are served. Time: 7:30 p.m. Place: Fort Massachusetts Auditorium (Central City), State Road, North Adams, Mass.

## WESTERN

Recently the Emergency Communications Organization served coffee, cold drinks and cookies to all CB'ers passing thru the Texarkana area. Also the club passed out some 3000 pamphlets to visitors, welcoming them to the area, plus signs to the same effect, REMEMBERING TEXARKANA USA, and affording a rest stop to break up the long tiresome drive. Radio Red . . .

Congratulations go to Ronald Gonsch, KFA2710, and his committee for a wonderful job well done on the Whittier, Pico Rivera & Montebello REACT Team's first Big Rally. It was held at Cluster Pine in Big Bear. There were approximately 200 people there. Shirley Keefer, KFA5990, won the big door prize of a pair of Walkie Talkies. Many stayed the week end and had fun riding Hondo's, horse back riding, sing around the large open fire. Cliff Todd won a transmitter for coming the farthest.

The committee for the Fresno Jamboree, Bill Gentry, 12W5244, the President: Paul Pascoe, 12Q2580; Harold Boudreau, KFE0114, and John Ewald, KFC3102, did a very good job in their planning. They had approximately 500 people. Many very good prizes were given away. KEJ6251, Gene Grant the S9 APRE won free passes to the Watsonville Jamboree. One way of getting him there.

New Officers for the Fresno Club are Bill Gentry, 12W5244; Vice-Pres., Robert McDonald, 12Q0500; Sec., Betty Peters, 12Q1290; Treas., Edward Peters, 12Q1290. Five clubs helped put on the Watsonville Jamboree.

Surf City Club of Santa Cruz, Family Communication Club of Watsonville, Mission City CB Club of Santa Clara, Cloud Five Radio Club of Sunnyvale and South County Rebels of Fremont. Approximately 500 people attended. Jeanne Simmon of Hayward, Miss F.C.C., won the queen contest. During the afternoon Gerald Oakley of Los Gatos and Sgt. Jerry Price of Taft gave a demonstration of sky diving. Congratulations go to the Jamboree Chairman Carol Deaton and his committees.

The new officers of the Pomona Valley Eleven Meter Association are President, Larry Long, KFA0165; Vice President, Dick Calle, KXK1381; Secretary, Nan Long, KFA9090; Treas., Ralph Browning, KEJ4514. Many of the members attended a caravan to San Clemente State Park for day of swimming and picnic. Many trips and coffee breaks are in store for the members.

San Gabriel Valley REACT team held their monthly meeting at Morgan Park in Baldwin Park. New communications Officer Frenchy Carroll, KFA6036, and they also decided to let the REACT wives vote, look out fellows!! They held a picnic at San Dimas Canyon Park. Paul Seabern won the big prize. Florence Breece, KFA5236, Bob Cottam, KFA2208, Mae and Don Helgerud, KEJ7320 of San Gabriel Valley REACT Team visited the High Desert Rats Club in Victorville.

The new officers of the El Camino Real Citizens Club are President, Fred Wallace, KFA8402; Vice President, Lauren Welch, KEJ1102, Treasurer, George Sommer, KFA1815; Secretary, Louise Welch, KEJ1102. They held their meetings Aztec Hotel in Monrovia. Plans are being made for a picnic at the San Dimas Park.

Our prayers for a speedy recovery go to Nellie Hyde, KEJ1251, of Joshua Tree who received severe burns when the butane stove in her new camper exploded. Send her a card, Nellie Hyde, KEJ1251, Redlands Hospital, Room 48, Redlands, Calif.

New officers of the Mission City CB'ers of Santa Clara are president, Ray Gnade, KFD4584; Vice President, Ray Matasci, KFD0339, Secretary, Ruby Gnade, KFD5660; Treasurer, Earl Pessoa, KFC4457. Thanks go to the committee Dick Southern, 12Q3113; Charles Tipton, KFD5542 and Casey Durso, 12Q2062 for a successful scavenger hunt.



The new officers of the Citizens Emergency Mobile Patrol of Reseda, California are President, Brian Kincaide, 11A3134; Vice President, Scott Stucker, KEJ-5772; Secretary, George Gehr, KFA0288; Treasurer, Duke Armstrong, KFA6123. They hold their meetings the first Wednesday of each month at 8209 Crebs Ave., Reseda, Calif., at 7:30 p.m. The XYL's were taken out for dinner and show by the husbands to Canoga Bowl Royal Room where they were entertained by Paul Winchell & Jerry Mahoney.

Officers of the Whispering Redwoods are President, Wayne Walker, KFC0435; Vice President, Oscar Brundin, 12W4742; Secretary & Treasurer, Eileen Jarose, KFD4967. Their regular meetings are held on the second Thursday of each month at the Arcata Airport



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Ray Duffield, president of the Armed Forces Citizen's Band Club, presents to Bobby Crumpler the first honorary membership card in the history of club. Bobby, paralyzed except for the use of his right leg and foot, is the proud operator of a short-wave radio and has found many new friends through its use. The club, made up of military and civilian personnel from Fort Bragg, Spring Lake and Fayetteville, helped Bobby to put his set in operation, erect his antenna, and then welcomed him to the airwaves as a full-fledged CB'er.

in McKinleyville. An old fashion Pot-Luck picnic was held at Orleans, Calif. for the members of Redwood Citizens Banders and their families. Had a very good turn out for their club dance, with thanks going to Mike Dykes, KFD5706, George Chamberlain, KFB0004 and Bill Kuppe, KFC3376 for the record player and records.

Recently organized in the 5 Watt Wizards CB Ass'n on San Diego, California. The club meets on the first Tuesday of each month at 7:30 p.m., 1555 South 43rd St., and monitors channels 11 and 14.

Operating a short-wave radio is relatively simple for a person with extra-sharp reflexes and two hands, but for one certain individual it is a simple operation to be accomplished quite adeptly and most accurately with the use of one foot and five toes.

Bobby Crumpler, of the Rest Haven Nursing Home in Fayetteville, North Carolina, is a twenty-three year old victim of polio for more than sixteen years. In August of 1948, just before his eighth birthday, Bobby was hospitalized with a severe diagnosis of Poliomyelitis. After fifteen years of admissions and readmissions to five different hospitals, polio centers and cerebral palsy centers in North Carolina and Tennessee, Bobby came to the Rest Haven Nursing Home in July of 1963.

For many years Bobby has dreamed of the day when he might be able to communicate with other people outside of his immediate environment, possibly through the use of short-wave radio. Somehow the word of Bobby's dilemma was passed on to the Armed Forces Citizen's Band Radio Club of the Fort Bragg area and Ray Duffield, club president, Jay Mundy, Troy Bailey, Dennis Carvalho, Rick Kelley, Rusty Collins, and

several other club members too numerous to name, installed a set, mounted an antenna, and put Bobby on-the-air.

The only physical limbs in which Bobby has any degree of mobility are his right foot and toes, requiring several variations in the normal control system for the radio. Through the ingenuity of the club members, special dials were constructed, odd parts put together, and many other innovations were made in order that Bobby be able to manipulate the knobs and switches with his toes.

Now able to maintain complete control over his radio, Bobby is, to say the least, a full-fledged CB'er, having his own screwdriver and QSL (post) cards from stations in 42 of the 50 states. This alone is a feat that takes most radio operators at least a year to accomplish, yet Bobby has done this in less than two months.

Tuesday, April 21, Bobby attended the scheduled meeting of the CB Club in his wheelchair and was presented an honorary membership card, the first in the club's history, by the club president. Bobby brought his radio with him to the meeting and demonstrated to the other club members his ability to change frequencies, increase or lower the volume, and control the switch to his boom-microphone.

Of his experiences with the radio Bobby said, "It is just too wonderful to express in words, as is my gratitude to the club for all the trouble the members went through enabling me to control the set. It is really amazing how many good friends one can find through the use of a short-wave radio."

With only two years of formal education, Bobby has a very high degree of intelligence and is a very interesting conversationalist. A handsome red-haired young man with a smile as wide as Fort Bragg, Bobby always enjoys making new friends and talking to new CB stations.

Mrs. Masters, one of Bobby's favorite nurses at the Rest Haven Nursing Home, says, "Through the thoughtful friendliness of relatives, friends, and strangers—His Smile Tells the Story."

**CENTRAL**

The Tri-State CB Club, with 57 members is one year old. The club covers sections of 3 states which includes



STILL AVAILABLE TO THE A.P.R.E. STAFF IS THE ABOVE GIANT DECAL. HAVE YOU RECEIVED YOURS! Write S9, Club Editor, John F. Krejci, 60 Division Ave., Garfield, New Jersey for more information.

Ky., Tenn. and Virginia. President, Jerry Wilson, KDB-7748, Vice President, E. B. Bernard, 18Q9515; Secretary-Treasurer, Carl Harris, KHH0946.

The North Area Emergency Radio Team have changed their meeting night to the first Thursdays of each month. Let's not forget it fellows. Thanks to S. Schaaf.

Cleveland's versatile Q-5 Radio Club follows up with courtesy mobile radio unit cards and club QSL packets for out-of-town CB'ers with another first in their area with the introduction of club road signs which are designed to assist out-of-town CB'ers in finding the clubs

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Members of the voluntary Emergency Radio Squad, erecting a portable super magnum with tripod mount for emergency control station. Members of this unit number 40 and are also members of the Five-Eleven Radio Club, Inc., Pittsburgh, Penna.

call channel for highway directions and lodgings. The club also has its official Q-5 Radio Club decal for all members. Presently membership is at 50. News of the group comes from J. Batley, S9, A.P.R.E., KH11466.

S9, A.P.R.E. Jon Batley, KH11466, attended the Mansfield, Ohio Jamboree, July 12th. Despite the bad rainy weather, which started late Saturday night, the parking lot of the Mansfield County Fairgrounds was packed with mobile units. CB'ers from Ohio, plus Michigan attended. Dealers galore, clubs from the area, and QSL exchangers. Jon, says, a good time was had by all who attended, despite the damp, muddy fairgrounds. Jon would like to thank the Mansfield CB'ers, plus many local clubs for the wonderful host during the weekend.



Officers of the Wichita CB Club are: President, Del Burges; Vice President, Bud Farmer; Secretary, Bob Ellis; Treasurer, Jack Osment. Jamboree notice was received too late for publication. News of the group comes from Peter Nosler, 17W3325.

The Lincoln Trail CB'ers are selling an area callbook which their club has published which covers over 2,000 local area CB'ers and lists over 134 towns in the east and central Illinois and western Indiana areas. Price for this valuable area callbook is one buck. For further information contact: Tom Hixon, KHC1496, Box 362, Chrisman, Ill.

The Wabash Valley Citizens Radio League had a very successful jamboree recently. Crowd attendance was excellent. A.P.R.E. Tom Hixon, KHC1496.

President, George Folk, KHA8791 of the Huntington County CB Radio Club wishes to express his thanks to the many CB'ers who helped to make their CB Jamboree a huge success. Over 1,000 CB'ers attended. A.P.R.E., R.R.H.

The Rock River CB Club has approved the letter and findings of a committee set up to try to coordinate police and CB activities on an emergency channel. Plans are in the making for a party for the physically handicapped in the area.

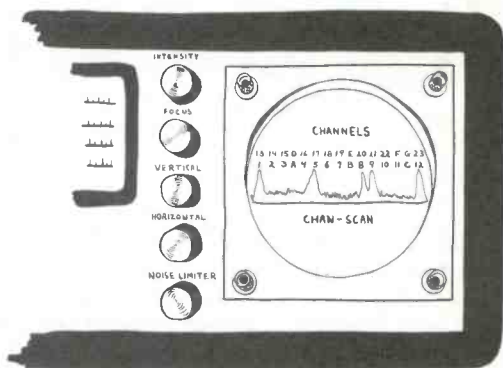
On the night of Tuesday, June 23rd, 1964, the CB Emergency Radio Unit of Civil Defense from the 11 OM CB Radio Club of Toledo, Ohio and Lucas County was called upon by Police Chief Bosch to assist the regular policemen in closing off streets and directing traffic after the Ensign Foundry Company caught fire

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and the 40 MPH wind swept sparks into the broken windows of the D. H. Overmyer Warehouse across the NYC railroad tracks some 200 feet from the Ensign Co. Area residents were urged to guard their property with garden hoses, as the embers from the flaming warehouse were strewn over the area. Three pumpers were sent on roving patrol to guard the area against further outbreaks.

This was Toledo's biggest fire in 20 years, and brought out the biggest fire-fighting crew in the city's history. More than 175 off-duty firemen were called and all reserve equipment was pressed into service.

Some suburban fire departments sent men and equipment into the Toledo fire stations to augment city crews during the blaze.

The 26 members of the CB Emergency Radio Unit of Civil Defense from the 11 OM CB Radio Club of Toledo who reported were kept busy with the traffic control and keeping the spectators out of the firemen's way.

The 11 OM CB Radio Club of Toledo publishes its monthly publication which is the Hetrodyne Gazette, a very fine paper, published by Ken Revard who is also the club's Civilian Defense reporter of the same paper. News of the group comes from Jon G. Batley.

Newly organized CB Club in Des Moines, Iowa is the Central Iowa CB Club. Officers for the coming year are President, Don Jackson, KLH5136; Vice President, Jack Doggett, KLH4994; Secretary-Treasurer, Larry Mihalovich, KLH1880; Sgt. at Arms, Angelo Cipale, KLH5796. The Club with 20 members meets the second and fourth Tuesday of each month and monitors channel 11. The club will participate in public service activities, promote friendship and goodwill, and give aid in emergencies.

The Missouri-Oklahoma-Kansas CB Radio Club recently sponsored a jamboree. More than 500 CB'ers attended their event. CB'ers from N. Y., N. H., Arkansas, Arizona, Ohio, Illinois and Iowa, attended. Jim Lewis of Joplin is president of the group, and Father William Krudwig of St. Mary's parish here is chairman of the club's emergency squad.

### ATLANTIC

The Queen City 5 Watters CB Radio Club of Cumberland, Maryland recently held their 2nd Annual CB Jamboree, June 21st at the Constitution Park. Activities began at 11 a.m. and lasted until the final CB'er departed. Prizes were awarded for various categories including, longest traveled CB'er, oldest female and male CB'er attending. Approximately 200 CB'ers from Virginia, Penna., Maryland and New Jersey. S9 Club Editor, John F. Krejc and secretary, arrived in Cumberland June 20th and attended the all-day event. Everyone is looking forward to 1965, when once again the Queen City 5 Watters will hold their 3rd Annual CB Jamboree.

The Apple Valley CB Club of Winchester voted at the June meeting to join the Virginia State CB Radio Ass'n. Also the club publishes a monthly called, The Big A.

The Free State CB Club held their 2nd Annual Family Picnic recently at Brunswick, Maryland. The big winner of the CB radio was William Steinacker, KK12596, of Alexandria.

The Roanoke Valley CB Club held a big jamboree July 18th and 19th at Lakeside Amusement Park near Roanoke, Va.

The Fairfax-Prince William CB Radio Club held their big picnic on July 26th at Lake Accotink, near Fairfax, Va. Also the club is holding elections soon and the new officers will be listed in the next issue.

Just a rumor—Word received from a reliable source tells us that several CB clubs in Maryland are discussing the possibilities of forming a State Ass'n similar to Va's.

The Arfax CB Club Arlington, Va., recently held a picnic and swimming party enjoyed by all.

The Winchester-Frederick County CB Club has a real nice looking emergency vehicle.

Channel 15, Club paper of the Fairfax-Prince William CB Club looks better with each issue. J.S.M.

The Monitors Radio Club of Newport News, Virginia with 21 member strong recently held their annual picnic. All members are listed with REACT and the club has a point system set-up for work done for the club, and with the member receiving the most points

Continued on page 66

Special club subscription rates for S9



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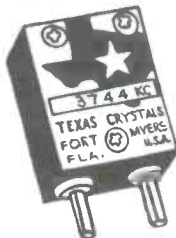
Matched crystal sets for ALL CB units (Specify equipment make and model numbers) ..... \$5.90 per set

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15 to 30 MC ..... \$3.85 — 30 to 40 MC ..... \$4.10 — 40 MC to 65 MC ..... \$4.50 — 65 MC to 100 MC ..... \$6.00 ea.

**FUNDAMENTAL FREQ. SEALED** From 1601 KC to 2000 KC \$5.00; from 2001 KC to 2500 KC \$4.00; 2501 KC to 5000 KC \$3.50; 5001 KC to 7000 KC \$3.00; 7001 KC to 10,000 KC \$3.25.

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Pin spacing 1/2" Pin spacing 3/4"  
Pin diameter .125 Banana pins

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1601 KC to 2000 KC: .005% tolerance ..... \$3.55 ea.  
2001 KC to 2500 KC: .005% tolerance ..... \$2.75 ea.  
2501 KC to 9000 KC: .005% tolerance ..... \$2.50 ea.  
9001 KC to 11,000 KC: .005% tolerance ..... \$3.00 ea.

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.01% Tolerance . . . \$1.50 ea. — 80 meters (3701-3749 KC)  
40 meters (7152-7198 KC), 15 meters (7034-7082 KC), 6 meters (8335-8650 KC) within 1 KC  
FT-241 Lattice Crystals in all frequencies from 370 KC to 540 KC (all except 455 KC and 500 KC) ..... \$1.25 ea.  
Pin spacing 1/2" Pin diameter .093  
Matched pairs — 15 cycles \$2.50 per pair  
200 KC Crystals, \$2.00 ea.; 455 KC Crystals, \$1.25 ea.; 500 KC Crystals, \$1.25 ea.; 100 KC Frequency Standard Crystals in HC13/U holders \$4.50 ea.; Socket for FT-243 Crystal 15c ea.; Dual Socket for FT-243 Crystals, 15c ea.; Sockets for MC-7 and FT-171 Crystals 25c ea.; Ceramic Socket for HC6/U Crystals 20c ea.

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TOTAL AMOUNT ENCLOSED \$ \_\_\_\_\_ CHARGE IT \$ \_\_\_\_\_

RUSH ME  
THIS ITEM

**WRL'S GREAT NEW "DX'ER"**  
**2-WEEK HOME TRIAL!!!!**  
**MONEY-BACK GUARANTEE\***

\*Less transportation charges  
**THE BEST CHOICE FOR**  
**BASE OR MOBILE STATION**

- Full 5 watts power—fully modulated
- Built-in 3-way power supply
- One model for 6V/12VDC/117VAC operation
- Illuminated "S" and modulation meter
- Double conversion superheterodyne receiver
- Plug-in ceramic mike, coil cord, push-to-talk
- Easy access for crystal changing



**\$119.95**  
**\$6.00 MONTHLY**

MANY DELUXE FEATURES:

- ✓ ALL CHANNEL TUNING
- ✓ 12 CHANNEL TRANSMIT
- ✓ CRYSTAL SELECTOR
- ✓ UNIQUE CRYSTAL "SPOT-QUICK" CONTROL

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THIS ITEM

**NEW WRL WT-1000**  
**3 TRANSISTOR**  
**PLEASURE TIME**  
**WALKIE TALKIE!!!**

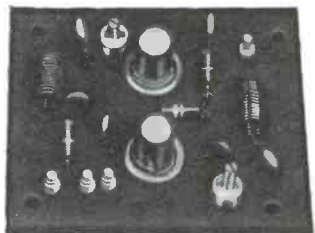
**\$10.95 NO MONEY DOWN**  
**\$20.50 FOR MATCHED PAIR**

- FACTORY WIRED—no soldering—no mess
- No license needed—no age limit
- Handsome, compact—weighs 10 oz.
- Offers up to ¼ mile on-the-move communications
- Includes battery & telescoping antenna



RUSH ME  
THIS ITEM

POSTPAID



**IMPROVE CB RECEPTION**  
**SATISFACTION GUARANTEED**

**\$11.95** CB Preamplifier  
 Model NA-27

New...Compact...CB Preamplifier  
 ...Guaranteed to improve reception of any CB receiver. Uses two 6CW4 nuvitors offering up to 20DB gain on RECEIVER SIGNALS. Ready-to-install into any CB unit. **MONEY-BACK GUARANTEE!**

**WRL**

**WORLD RADIO**  
**LABORATORIES**

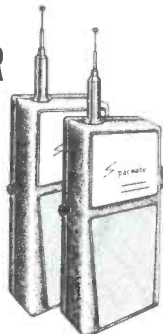
3415 WEST BROADWAY  
 COUNCIL BLUFFS, IA. 51501

RUSH ME  
THIS ITEM

**WRL "SPACEMATE"**  
**DELUXE 9 TRANSISTOR**  
**CB WALKIE TALKIE**

**\$34.95 NO MONEY DOWN**  
**\$29.95 EA. IN PAIRS**

- FOR HOME—PLEASURE—SPORTS—INDUSTRY
- Operating range—1 to 5 miles under ideal conditions
- No license or test required
- Includes leather carrying case, battery & antenna.



●●●●●●●● CLIP AND MAIL ●●●●●●●● CLIP AND MAIL ●●●●●●●●



# WASHINGTON OUTLOOK

The following CB'ers received mail from the FCC this month:

7W2005, Richard H. Sanders, Fort Lauderdale, Fla. An FCC hearing examiner issued an initial decision looking toward revoking Sanders' CB license.

7W1781, Edward N. Carlson, d/b as Micro Electronic Service, Hollywood, Fla., license revoked for repeated failure to respond to official notices concerning alleged violation of the rules.

11W4069, Paul Sigur, Compton, Calif., hearing terminated on show cause proceedings.

13W0980, Dynamic TV Service, Portland, Ore., directed to show cause why their license should not be revoked for repeated failure to respond to official notices concerning alleged violations of the CB rules.

18Q4830, Robert J. Griese, Milwaukee, Wisc., directed to show cause why the license for his radio station should not be revoked for repeated failure to respond to official notices concerning alleged violation of the CB rules.

19Q1365, Thomas H. Janes, Plainwell, Mich. First the FCC revoked his license for repeated failure to answer correspondence from them which concerned alleged violations, however Janes filed a petition for reconsideration and the FCC held up the revocation pending action on the petition.

19Q1604, Ronald Jones, Buckeye Lake, Ohio, was imposed with a \$100 forfeiture for repeated violations of the CB rules.

20Q0084, William P. Gleichauf, Rochester, N. Y., was imposed with a \$100 forfeiture for repeated violations of the rules.

KDB0264, Melvin S. Welch, Stone Mountain, Ga., had his monetary forfeiture reduced from \$100 to \$25 in view of mitigating circumstances.

KDB7479, Clarice A. Green, Mableton, Ga., hearings dismissed because the licensee requested that the station license be cancelled.

KDC2043, Thomas Hunsberger, Bloomington, Mich., directed to show cause why his license should not be revoked for repeated failure to respond to official notices concerning alleged violations of the rules.

KDD0788, Laura G. Chalker, Tucker, Ga., imposed with a forfeiture of \$100 for repeated violations of the rules.

KDD1131, Hall H. Jackson, Atlanta, Ga., hearings dismissed because the licensee requested that the station license be cancelled.

KDD3995, Robert E. Beverly, III, Atlanta, Ga., monetary forfeiture reduced from \$100 to \$25 because of mitigating circumstances.

KDD7279, Cornelius Vernon Portis, d/b as Portis Construction Co., Atlanta, Ga., imposed with a \$100 monetary forfeiture because of repeated violations of the rules.

KDD9683, George Edward Newborn, Douglasville, Ga., imposed with a \$100 monetary forfeiture for repeated violations of the CB rules.

KDH0833, Joseph S. Smith, d/b as Florida Merchant Police, Oakland Park, Fla., imposed with a \$100 monetary forfeiture for repeated violations of the CB rules.

KDH1269, James P. Bowers, Tampa, Fla., his request for cancellation of a \$100 monetary forfeiture was denied, but the amount was reduced to \$25 in view of mitigating circumstances.

KDH2463, D. J. Elliott, Fort Lauderdale, Fla., directed to show cause why his license should not be revoked for repeated failure to respond to official notices concerning alleged violations of the rules.

KDI3158, Michael S. Ross, Miami Beach, Fla., directed to show cause why his license should not be revoked for repeated failure to respond to official notices concerning alleged violation of the CB rules.

KEJ6807, William Shannon, Bell Gardens, Calif., hearings terminated on his show cause notice.

KFA3105, Marie E. Hogan, Buena Park, Calif., hearings terminated on her show cause notice.

KFA3258, William H. Stamas, Norwalk, Calif., sent a notice of apparent liability in the amount of \$100 for repeated violations of the rules.

KFA3496, Joseph Burnsworth, Paramount, Calif., a \$100 monetary forfeiture was reduced to \$25 because of mitigating circumstances.

KFA3897, Jerry W. Smith, Pacoima, Calif.,

imposed with a monetary forfeiture of \$100 for repeated violations of the rules.

KFA7737, Melvin Godfrey, Las Vegas, Nev., hearings terminated on his show cause notice.

KFA9030, Richard B. Ellwood, Garden Grove, Calif., hearings dismissed on his show cause notice as the license for this station was cancelled.

KFF0285, Donald L. Brubaker, Camas, Wash., license revoked for repeated failure to respond to official notices concerning alleged violation of the rules.

KFF0605, William B. Walsh, Jr., Vancouver, Wash., license revoked for repeated failure to respond to official notices concerning alleged violations of the CB rules.

KFF0652, Thomas W. McBroom, Portland, Ore., a \$100 monetary forfeiture was reduced to \$25 in view of mitigating circumstances.

KHH0744, James D. Blake, Saint Clair, Mich., directed to show cause why his license should not be revoked for repeated failure to respond to official notices concerning alleged rule violation.

KHH1930, Wesley L. Neville, Columbus, Ohio, directed to show cause why his license should not be revoked for repeated failure to respond to official notices concerning alleged violation of the CB rules.

KHJ3570, Arthur D. Pipes, Circleville, Ohio, imposed with a \$100 monetary forfeiture for repeated violations of the rules.

KIC1650, James L. Mancuso, Rochester, N. Y., directed to show cause why his license should not be revoked for repeated failure to respond to official notices concerning alleged violations of the CB rules.

KIC5912, Clifford L. Austin, Interlaken, N. Y., imposed with a \$100 monetary forfeiture for repeated violations of the CB rules.

KKI0350, Peter A. McAdams, Anandale, Va., imposed a forfeiture of \$100 for repeated violations of the CB rules.

KKM2540, Bobby Patterson, Lithia Springs, Ga., imposed with a forfeiture of \$100 for repeated violations of the rules.

In other FCC news, the US Court of Appeals threw out the case in which a number of radio industrial organizations were trying to kill the FCC's license fee system. Barring involvement by the US Supreme Court, the license fees are here to stay.

On the other hand, Congress branded as "disgraceful" the manner in which the FCC was processing license applications in the division which handles CB and other "special" radio services. The FCC was sharply told to "not divert any of the employees presently engaged in processing such applications" and to bring the work up to date "without further delay."



## KBG4303 RIDES AGAIN

*Continued from page 7*

who create *any* type of continuing annoyance after the new rules go into effect (on November 1st). No nonsense will be tolerated on channels 1 through 8 and 15 through 22.

Of course, the fact still remains that the FCC does not like or want what they call "hobby use" on CB, considering it contrary to the public interest.

But what is this *public interest* in which the FCC places such importance? Is it the wishes of 700,000 CB licensees? Is it the approximately 190,000,000 Americans who aren't affected by CB (except when CB Civil Defense networks save their lives and property), or is it seven FCC Commissioners sitting behind desks in Washington? Seven men who have had very little personal experience with CB.

Rather than taking a realistic approach to the CB situation (kicking out the trouble-makers and encouraging the beneficial users who perform public services), the seven Commissioners have thrown up their hands and stated that "if there is a continued misuse of operating privileges, it [the FCC] will consider again the fundamental question of whether the public convenience, interest or necessity is served by the continuance of the service."

Yet these FCC Commissioners are themselves *public servants*—men who are appointed to their jobs and whose grocery bills are paid with money extracted from *your* weekly paycheck. You are the public. Are they serving *your* interests?

You must realize that, while CB constitutes the largest number of stations licensed in any single radio service, it is a relatively unimportant cog in the overall scope of the Commission. The broadcasting industry, while having fewer stations in operation than many other services, seems to derive most of the attention from the Commission. After all, broadcasters spend many dollars to have persuasive high-pressure lobbyists looking after their best interests in Washington. For instance, recently one of the Commissioners decided that several broadcasting stations were running so many commercials that their operation was no longer in the public interest. He suggested that the Commission not renew their licenses. You may have guessed what happened—his proposal was shot down in flames by his co-Commissioners. What about the rigged quiz shows? What about the exaggerated claims in commercials? What about the fast-talk pitchmen who peddle junk over radio and TV? *Obviously* these are the folks which the Commission feels are operating in the public interest—at least we haven't heard the FCC tell broadcasters that they might dump the whole service if they didn't straighten up and fly right! Nevertheless, these broadcast violations are a fraud against the American people, costing the public millions of dollars each year.

Now then, what harm is there to the FCC's highly valued *public interest* if, on our paltry seven inter-station channels, someone who de-

votes his time and personal equipment to public service, wants to talk about the proper operation of that equipment with another operator across town? Will it cost the public millions of dollars? Will it constitute a horrendous fraud against 190,000,000 Americans? Will it annoy the users of CB who are now able to talk to their own units on the "exclusive" channels (1 through 8 and 15 through 22)? Will it create any *real* problems at all? We say NO!

The FCC says that hobby use of radio is adequately served by the ham radio service, saying that some 250,000 persons have been able to pass the technical exam which is required to obtain a license in the service. But what about the citizen who wants to communicate but can't or doesn't want to learn anything about the inner workings of a radio transceiver? Is he any less of a citizen? Is his inability to learn, or lack of interest in electronics, a valid barrier to his being able to communicate via radio (on a group of frequencies which *the FCC* calls the *Citizens Radio Service*). Does everyone who drives a car have to be a mechanic? We wonder if the Commissioners repair their own automobiles, or if they even know what a Hypoid rear axle is.

Another thought. Since hobbyists should take out licenses for ham stations, why shouldn't commercial users of CB take out a license in any of the many commercial two-way radio bands? Within the past 9 months the FCC has reclassified a good number of commercial two-way frequencies. Whereas last year many commercial CB users could not qualify for licenses other than CB, they now have numerous available frequencies which are all but devoid of activity. Or, think about the fact that if you need a technical license to "hobby" on the airwaves, then why shouldn't you need a technical license for any commercial or "personal" use of CB? Isn't it still a matter of pressing a microphone button and talking to someone?

We therefore ask that the Commission, in the best interests of the public which it is obligated and sworn to serve, reconsider its position about hobby use of CB. We ask that they open their eyes to realize the full potentialities of the Citizens Radio Service, we ask that they do this by means of an informal conference with persons from within the Service; or that they hold a public hearing.

What can you do? For one thing, I suggest that you stay clear of unauthorized channels, that you not talk for more than your allotted 5 minutes (with a 5 minute breather), that you avoid skip like the plague, do not run overpower, and do not have anything to do with those stations which do not abide by at least this brief and simple guide.

Secondly, we ask that you immediately write or wire your Congressman or your state's Senator in Washington and ask him to look into the situation. Tell him that you want an open and public hearing regarding the Citizens Radio Service to best determine how the public interest may be served, especially in the matter of hobby use. If you don't know the name or address of your Congressman or Senator, look

it up in a current *World Almanac* or check with your local Post Office. Remember, this is an election year. We understand that *Western Union* has a special low rate for people who want to dash off a strong telegram to their Washington representatives—check with them.

If you write, please try to use a typewriter or at least a pen. Be sure to include your complete name and return address.

By the way, don't forget that *legal* hobby CB use is still permitted under Part 15 of the FCC's rules. For full information on Part 15 (100 milliwatt) CB'ing, see the article on page 46 of S9 for August (available from our Circulation Department at 50¢ per copy, if you don't have one).

Further developments on the new FCC rules and their enforcement will appear FIRST in S9 *Magazine*, so be certain to catch all of our upcoming issues.

### FTC HORNS THE SPOTLIGHT

The ever-busy FTC (Federal Trade Commission) has decided that perhaps CB manufacturers should take up a little law enforcement work. They have *requested* that manufacturers place a paragraph in their ads which briefly sums up the FCC's CB rules. (I hate to think what will happen to a manufacturer who tries to squeeze this type of thing into a 2 inch ad.)

I wonder if the FTC people have ever heard that when people apply for a CB license, they must swear that they have a copy of the FCC's Part 95 in their possession? I wonder why they feel that the FCC is not capable of policing the airwaves? I wonder why firearms manufacturers aren't required to tell prospective purchasers that it might be illegal to shoot someone with their products, or why car ads don't tell you that it's illegal to leave the scene of an accident?

### WASHINGTON CONFIDENTIAL

Nobody ever knows for sure what goes on behind the scenes in someone else's office, and this goes double when the other office happens to be a government agency. Being an editor, and (by nature) a nosy person, I make every effort to find out at least *some* of the more interesting things at the Commission to pass along to you.

For instance, I've heard many CB'ers grumbling about some of the Commission personnel, especially in regard to some of the recent rules. Here are some facts: there are at least *two* FCC Commissioners who would just as soon see the Citizens Radio Service die a natural death (that is, the FCC would stop giving out new licenses, and not renew present ones). The FCC Chairman, E. William Henry, fought like the dickens to keep the service in existence. Also fighting to *keep* the service were Ivan G. Loucks, Chief of the Amateur and Citizens Radio Division, and two members of the Amateur and CB Division staff, William Grenfell and Richard Everett. From what I hear, regardless of the rules, we have these men to thank for even having the CB service!

There has been scuttlebutt that Chairman

Henry may not be with the Commission after the elections (regardless of who wins in November). Bill Henry has been most kind to the Land Mobile Radio Services, and CB'ers "in the know" hope that the stories are nothing more than "scuttlebutt." These stories, by the way, appeared in several electronics trade publications.

Newspapers have also had their share of Speculating. The Lawton (Oklahoma) Morning Press, in an editorial (August 8th) questions if there was a connection between Barry Goldwater's use of CB at the Republican National Convention and the sudden passage of the new CB rule modifications immediately after the convention. The paper notes that Goldwater has many followers among Hams and CB'ers and that "a million" radio hobbyists could form a "formidable clack for him." As you may know, Goldwater is a very active Ham operator and also operates CB. We had occasion to ask Goldwater about the possibility of the CB service being closed down if he was elected—and his reply was in our February issue. His opinion was that it would be "preposterous" to cancel the service.

We took the Lawton paper's editorial to the people at the FCC to get some opinions. They said that the Lawton story had become a popular bit of gossip in Washington social circles, but that, as far as they knew, there was no basis for it as the CB rules had long been expected to be announced in the summer.

### CLUB NEWS

At a recent press conference, all of the editors involved in CB were invited to hear about the National Association for Citizens Band Radio. Several issues back we commented on this organization in S9, stating that it might just be another in the long line of fly-by-night groups out to separate CB'ers from a buck.

After meeting the founder of the Association, we can say that it would appear that they are not out to make a buck from CB'ers. Among the aims of the club are the obtaining of more freedom of operation and speech on CB (obtained by legal methods), to promote the *personal* use of CB (as opposed to the strictly *commercial* uses), to obtain additional channels, to encourage manufacturers to build the most efficient gear at the lowest prices, to make the CB service an integral part of Civil Defense and other emergency groups, and to obtain the same operating privileges for CB'ers that the Hams have. While I do not, in all earnestness, personally support all of the proposals—you might find them up your alley. Further details may be obtained from Mr. Gordon Brown, National Association for Citizen Band Radio, Inc., 230 East Avenue, Rochester, N. Y. 14604.

### 10 CODE

Anticipating the FCC's new rules which state that if you use the "10 Code" you must have a copy of the complete code at your base station and each of your mobile units, S9 is happy to furnish you with a free tear-out and colorful copy of the code in each issue. Additional copies of this code may be had by sending a stamped,

self addressed envelope to: "10 Code," S9 Magazine, 14 Vanderverter Avenue, Port Washington, N. Y. 11050. Clubs requesting more than 20 copies please write on official club letterheads, signed by an officer. This is the "Official National CB 10 Code," which has been officially adopted by numerous clubs across the nation, and endorsed by all CB publications.

Remember, even if you say "10-4," without having a copy of the 10 code at your station, you are violating 95.83 (a) (16). The rule goes on to say that any FCC representative may demand that you show him your copy of the 10 Code, should you use any of the codes in your operation.

### NEXT MONTH IN S9

Next month S9 comes up with something called the "November Election Special" issue—and, like all of our previous "special" issues, we think that you will find it to live up to its description of really being something *special*. We have finally worked out details with our newsstand distributors to chuck an additional 10,000 copies of S9 onto the newsstands each month. We earnestly hope that this will help to satisfy the appetites of the daredevils among our readers who play *Newsstand Russian Roulette* each month, taking chances on missing out on our higher selling issues. A subscription form (post-paid) is hidden away in the rear of this issue if you finally have decided that it's not only easier to subscribe than search us out on the stands, but it's plain and simple *cheaper* to buy S9 for less than 42¢ per copy than it is for 50¢. Oh well, some people *like* to do things the hard way.



### CB CHIT CHAT

*Continued from page 61*

will receive an award. One rule of the club, is that upon payment of yearly dues, member may receive S9 at no extra charge. Club meets 1st and 3rd Wednesday of each month, with 5 members holding Red Cross First Aid Cards. The club is headed by President, H. E. Williams, KC16631; Vice President, H. L. Simmons, KC15425; Secretary, J. T. Rawles, KC12904; Treasurer, W. L. Brackenridge, KCJ5123; Communications Officer, W. B. Sheldon, KKK2188.

#### PACIFIC

Recently, Wes Castros, KFC1282, President of the Capital City Monitors, Inc., received a call asking if the club would work in the American Legion Parade. Under short notice, Wes gathered 10 units and responded at the official area. Each mobile was spotted at a strategic point along the parade route. Parade officials were very pleased, and asked the club for their services again in November. The Capital City Monitors, under the leadership of President, Wes Castros, has grown from the original 8 members to 70 plus and is the REACT affiliate in the Sacramento Valley. Thanks to Alyce Eggleston.

#### SOUTHERN

The Spaceport Radio Club begins its third year in serving the "Missileland U.S.A." This organization can truly justify its name. Their headquarters are in Satellite Beach, Florida, with many of the members employed at Cape Kennedy and at Merritt Islands Launch Annex, from where the U.S. will send a team of three astronauts to the moon within a decade. In their space time, these missilemen have constructed a mobile communications vehicle second to none. Newly elected officers are: President, Jim Edwards, 7Q0462; Vice President, Paul Kurek, KD11147; Secretary, Dave Wheeler, KD10564; Treasurer, Al Santer, KKP0070.



Always say you saw it in S9

## CB SHOP

Rates for CB SHOP are 10¢ per word for advertising which, in our opinion, is obviously of a non-commercial nature. A charge of 25¢ per word is made to all commercial advertisers or business organizations. A 5% discount is in effect for an advance insertion order for six consecutive months.

We do not bill for advertising in CB SHOP. Full remittance must accompany all orders and orders sent in otherwise will not be run or acknowledged.

Closing date is the 15th of the 2nd month preceding date of publication.

We reserve the right to reject advertising which we feel is not suitable.

Because the advertisers and equipment contained in the CB SHOP have not been investigated, the publishers of S9 cannot vouch for the merchandise or services listed therein.

QSL CARDS, EYEBALL CARDS. The largest designs, colors, cardstock. Samples—10¢. APRIL SIGN, 56290 Van Dyke, Washington, Mich.

CB QSL CARDS—100 two-color \$3.00 postpaid, samples—10¢. Rusprint, Box 7575, Kansas City, Missouri 64116.

A few choice territories are still open for Browning franchised sales & service centers. Contact E. A. Coons, Browning Laboratories, Inc., 100 Union Ave., Laconia, N. H.

QSL's, CB, WPE, Samples 10¢. Nicholas & Son Printery, P.O. Box 11184, Phoenix, Arizona 85017.

"Obtain Lasting Results! Not promises. Dual Conversion easy-do adapter kit improves selectivity, increases sensitivity. HE-15, A; 15B; 115B; 20, A, B, C; 90; 800; 910, B; Mark VII; 770, 1, 2; Messenger; GW-10 etc. \$15.50, with tubes \$17.50. Unique Speech Clipper-kit complete, \$19.85, or \$5.00 deposit plus C.O.D. Free literature. Bainbridge Radio, 214 East 180th St., New York, N. Y. 10457."

CB—QSL's, 200 designs, state maps, humorous, regular. Catalog—samples 25¢ (refunded). KCJ-1955, Lile Guill, Rustburg, Va.

FREE SAMPLES—CB QSL CARDS—\$2.50 per 100 in 3 colors, POSTPAID. Garth Printing Company, Box 51S, Jutland, New Jersey.

FREE SAMPLES—CB QSL CARDS—\$4.00 PER 100—TWO COLOR—POSTPAID. QSL PIONEER, P.O. BOX 2451, PATERSON, NEW JERSEY.

CONVERT the inexpensive Surplus BC-659 to CB with crystal filter, AVC, squelch bias, Pi coupling, electronic push to talk, xtal controlled receiver, 2 RFs, 14 tube operation. Conversion parts kit and plans \$20.60. Plans only, \$2.00. Jay's CB Service, P.O. Box 173, Citrus Heights, Cal.

CB Calibration—Repairs. Free estimates, reasonable prices. FCC licensed. Northwest Camera & Electronic Repair, 3119 Arcade Bldg., Seattle, Wash.

**THIS MONTH'S BRAINWASHING: Subscribe!**

## NEW CALL PATCHES

ONLY 50¢ each - postpaid

ANY FIRST NAME OR CALL

No matter what it is! Popular 4" Shield. Bright Red on White Felt. Fast color. Sticks to Garments - Leather - Glass - Plastic. ORDER TODAY! Send Check or M.O. - We Pay Postage. Satisfaction Guaranteed! WRITE FOR CLUB PRICES. T'S • SWEAT SHIRTS • JACKETS • EMBLEMS  
NATIONAL SPORTSWEAR & CREST CO.  
Westville 9, N. H. 03892



## WE NEED CB DEALERS!!

AS distributors handling all Major brands of CB equipment, antennas, and accessories we can offer local dealerships to aggressive CB dealers and installers. Write at once for information and your costs on the brands you prefer to handle. Dept. 642

**KNOX ELECTRONIC SUPPLY, INC.**

67 N. Cherry St., Galesburg, Illinois.

## ATTENTION

ONCE IN A LIFETIME Opportunity for Citizen Band Class D (and A) Sales & Service Man. Booming business in a romantic and exploding western city. Many exclusives. Owner desires to retire and beachcomb. Write or wire, Beachcomber, P. O. Box 5027, Reno, Nevada. P.S. You can buy it at a good price.

## INTRODUCING

For the first time a device which will delight CB'ers - The unit, known as the *Moniscope* is a miniaturized cathode ray monitor with a 2" screen.



**Only \$34.95  
postpaid**

Some uses to which you can put the moniscope are: Visual Tuning of incoming signals, for exact adjustment of speech clippers & other audio devices, to check modulation in both incoming signals and signals from your own Transmitter. Also checks percentage of modulation and to "see" different types of interference.

This is *not* a kit, it comes completely wired and factory tested. One wire and a shield is all that is necessary to connect it to your rig.

**CONTROL RADIO LABS  
123 Avenue "U"  
Brooklyn 23, N. Y.**

# CARD PACKET

FRAMES &  
DISPLAYS  
20 CARDS  
IN CLEAR  
PLASTIC  
3 FOR  
\$1.00  
10 FOR  
\$3.00  
POSTPAID  
AND  
GUARAN-  
TEED  
FROM  
YOUR  
DEALER OR  
DIRECT



**TEPABCO**  
Dept. S-10

Box 198 — GALLATIN, TENN.

## CB SIGNAL SUPPRESSOR



This precision engineered signal suppressor will "hold down" those blasting locals which overload your receiver, while still permitting weak distant stations to come through. Easily attached to any rig which has AVC. Weighs only 12 oz. and designed in attractive silver, gold and black colors. This is a MUST for every CB'er who has ever wished that there were no such things as "loud locals" to jam a CB channel! Less than \$20. Write for further details and the name of your nearest dealer. Dealer inquiries invited.

**BAUER ENTERPRISES, INC.**

P.O. Box 657

Wendell, N. C.

Available at the following distributors:

Northern Division—E & G Specialties, P.O. Box 193, East Nassau, N. Y. 12062.

Eastern Division—Linear Electronics, Inc., 13 Oak St., Rochester, N. H.

CB QSL Cards. New Kute, Klever, Komical designs. Reasonable prices. Brilliant colors, including beautiful silver and gold. Samples Free. M. Hellwig, Box 425, Lake Wales, Fla. 33583.

**DANDY HAM STATION!** Thinking about going Ham? Buy my transceiver—cheap! Am selling my beloved Clegg 99'er 50 mc (six meter) transceiver after two years of faithful service. Runs 8 watts input on phone; double-conversion superheterodyne receiver. Everything in one unit: all you need is a mike and antenna. Worked (and QSL'ed) 31 states with this unit from the mobile! Price: \$97.00 postpaid. Make it \$110.00 and we'll throw in a completely transistorized speech clipper-compressor device, used successfully in conjunction with the 99'er (designed by Don Stoner). Will ship immediately on a first-come basis: Bob Brown, KBG-8417/K2ZSQ, % S9, 14 Vanderver Avenue, Port Washington, L. I., New York 11050.

CB QSL's—**BROWNIE W3CJI/3W1974.** 3111D Lehigh, Allentown, Pa. 18103. Catalogue with samples 25¢.

CB QSL SWL Cards that are different. Quality Card Stock. Samples 10¢. Home Print, 2416 Elmo, Hamilton, Ohio.

**RHOMBIC ANTENNA:** You can have a finer signal today with a Rhombic antenna. Increases your range and reduces noise level. Excellent where long distance communication is necessary. 12 db Forward Gain, 100 db Front to Back ratio. Works well on all channels. Easy to match to transmitter. Easy to install. This is the same antenna used by the American Telephone and Telegraph Company for overseas communication. **ORDER NOW!!** Only \$19.95. The Hilliard Laboratories, Box 2614, Macon, Georgia.

**PERSONALIZED ASHTRAY,** gold-trim approx. 8 x 10, \$2.75 plus 25¢ handling. Send QSL card or call letters and name. Parti Bucklew, Tunnelton, W. Va.

**NOW, Amateur Radio License Correspondence Classes!** Free details, write Valley Schools, Dept. D-11, Box 608, Aurora, Illinois.

CB Jamboree Cards, 1¢ each in 2 colors. Catalog and samples 10 cents. Sacandaga Press, Broadalbin, New York 12025.

QSL's! Gorgeous Rainbows; etc. Top quality! Fast service! Low prices! Samples 10¢ refundable. Harms, KD11143, 905 Ferneld, Edgewater, Florida.

QSL Cards—Full Color, Glossy Stock. Free Samples. F. B. Mathews, 1616 Rural Street, Rockford, Illinois.

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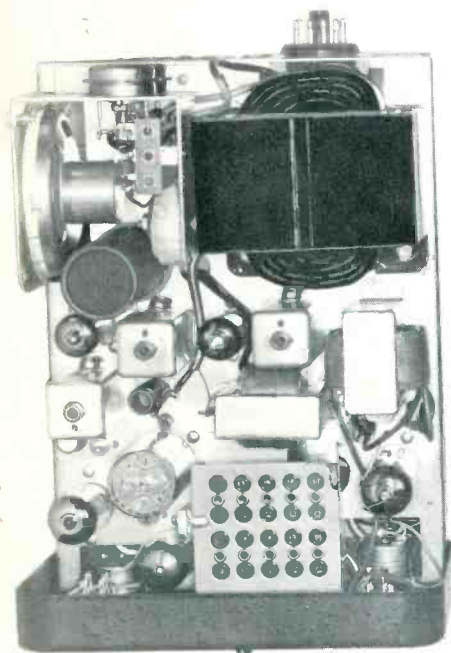
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