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MARCH 1965

50c



the citizens band journal



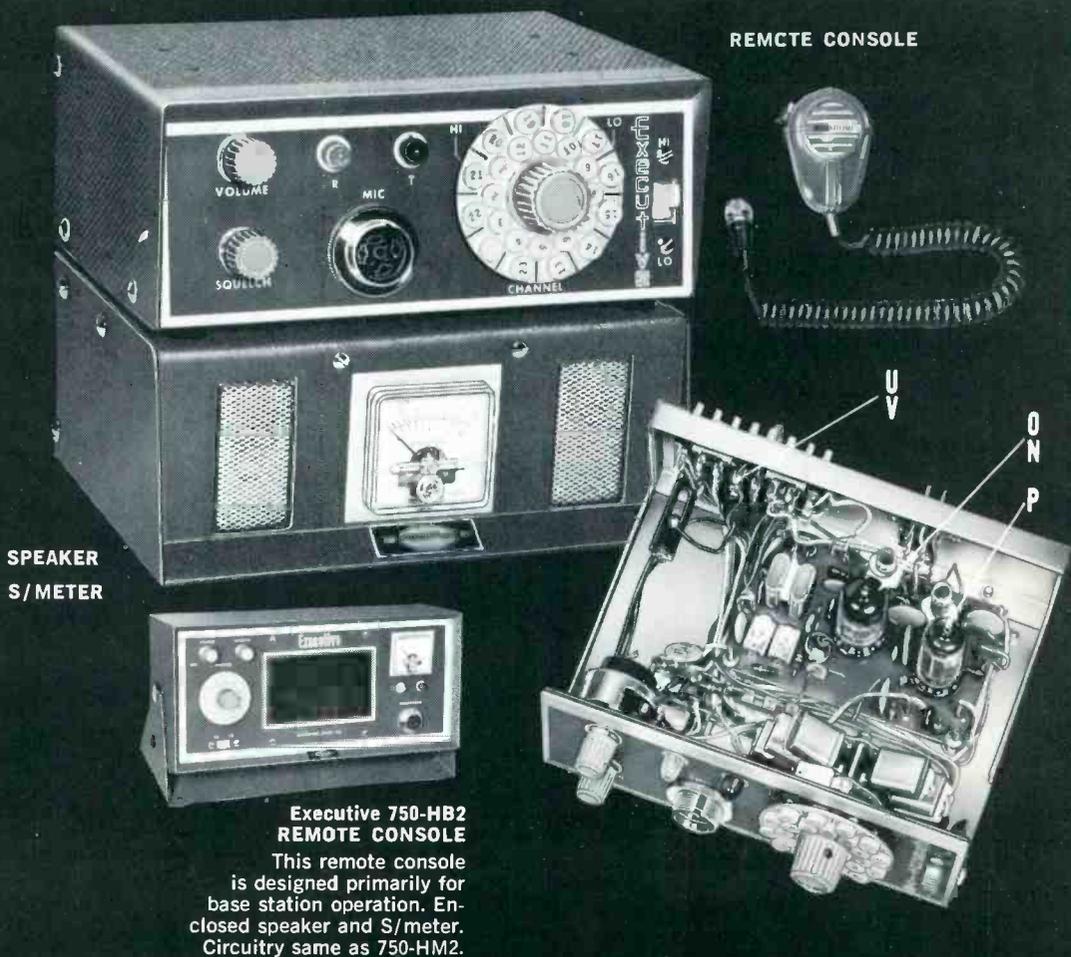
The OFFICIAL CB RADIO MAGAZINE

International's Executive 750-HM2 transceiver with 24 built-in test circuits, is truly the most versatile transceiver manufactured for Citizens Radio communication. ● At the turn of a switch, the test circuits provide a fast and positive check on the operating performance of receiving and transmitting circuits

within the set. ● This "years ahead" test feature checks the filament, plate and input voltages, transmitter forward and reflected power, modulation, etc. A 24-position switch, located on the transmitter/receiver unit, is used to select individual test circuits. Tune-up and servicing is easy. ● The transceiver has

TOTALLY NEW!

**INTERNATIONAL
750-HM2
CITIZENS BAND
TRANSCEIVER**



REMOTE CONSOLE

SPEAKER
S/METER

**Executive 750-HB2
REMOTE CONSOLE**

This remote console is designed primarily for base station operation. Enclosed speaker and S/meter. Circuitry same as 750-HM2.

a sensitive and selective dual conversion receiver combined with a highly stable and efficient transmitter. The 23-channel crystal controlled transmit and receive frequency selector circuits are housed in the remote console. ● Features include a new delayed / expanded AVC, new speech clipper/filter amplifier, new built-

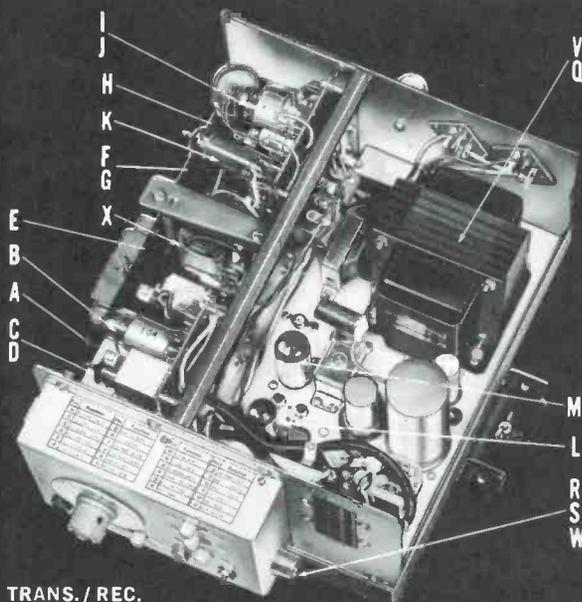
in S/meter and transmit meter. Operates on 115 vac, 6 or 12 vdc. The International Executive 750-HM2 transceiver includes remote console, speaker S/meter, transmitter/receiver unit, push-to-talk microphone cables and mounting racks.

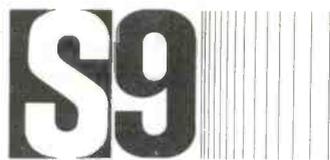
Trade-in/trade-up to a 750-HM2.



Write today for the name of your nearest International dealer.

TEST SWITCH POSITION	CHECKS FUNCTION
A	RF Amplifier Cathode
B	1st Converter Screen
C	2nd Converter Screen
D	2nd Rec. Osc. Grid
E	1st IF Amp. Cathode
F	2nd IF Amp. Cathode
G	2nd IF Screen
H	Rec. S/Meter-Trans. Audio Out
I	1st Audio Plate
J	2nd Audio Cathode
K	Audio P.A. Cathode
L	Buffer Grid
M	Rec. Relay Voltage-Trans. P. A. Bias
N	Trans. Osc. Grid
O	Trans. Adder Grid
P	Channel Osc. Grid
Q	Power Supply B+ Voltage
R	Reflected RF Power
S	RF Power Output
T	Bat. + Volts Neg Gnd.
U	Bat. - Volts Pos Gnd.
V	Fil. Voltage Level
W	Percentage of Mod.
X	Rec. & Trans. Audio Level





the citizens band journal

Vol. 5, No. 3

S. R. COWAN, KBI7182, PUBLISHER

March, 1965

OUR COVER: Fred Gwynne (left) as Herman Munster, and Al Lewis as Grandpa, think that CB radio is "the most." This is a scene from "The Munsters" (Thursdays, 7:30-8:00 P.M., E.S.T. on CBS-TV). Our thanks to CBS-TV for furnishing S9 with this photo, which was specially shot for S9.

14 Vanderventer Ave., Port Washington, N. Y.

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"PERSONAL MESSENGERS"—Compact, hand-held 100 milliwatt or 1½ watt units! Rugged and reliable—11 transistors, 4 diodes. Twice the sensitivity and 40% more range than similar units with conventional circuitry—more output than similar units with same rated inputs!

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March 1965 • 3



CHANNEL 9

Dear Tom,

Promoting Channel 9 for a National CB call channel is a fine idea. Some of us in this area who have been monitoring 11 have decided that the idea has so many advantages that we just couldn't stand there for the rest of our lives talking about it, we decided that as of January 22 we would monitor 9.

During a recent local meeting where the Channel 9 project was discussed there was a heated argument against the use of 9 as a monitor channel. Those who now use 9 as a communications channel don't want to relinquish it for monitoring. We were not so politely told that we would be clobbered on 9 if we attempted to use it for monitoring.

Indeed this is an attitude which I did not expect from fellow CB'ers. S9's reports on Channel 9 have been swell. Keep up the good work. It's too bad that there are some who haven't yet read it but just can't seem to comprehend what they read. Here's hoping that in the near future all CB'ers will be "10-10 on 9."

Deanna Smith, KLP8791
Fort Plain, N. Y.

FROM VIETNAM

Dear Tommy,

This letter is directed to Mr. Alan Aaronson of Yonkers, N. Y. who had his letter published in S9 for December.

Perhaps Mr. Aaronson should think things out a little better before he sounds off. I think that *everyone* should contact their Congressman or Senator about the CB rules. The rules should be changed to let it be used as a band for *citizens*. Recently the so-called "Business Band" came on big and would seem to be much better for commercial communications than CB.

The radio hobby is a wonderful thing in our country. A Congressman cannot win the war in Vietnam. Anyway, we are not really at war here, just advising the people. Do you know that people in Vietnam cannot have a transmitter of any kind? These people can afford them yet they cannot enjoy radio as a hobby as the lucky (and often lazy) American. Believe me, Mr. Aaron-

READER MAIL

son, I miss my CB gear while sitting here getting Molotov cocktails tossed at me doing a job which you think my Congressman should be doing. I agree with S9. I too am a taxpayer and keep my representative in Washington informed as to what I think is a proper course for him to steer. More power Congressmen, and I hope that they can do something about the new CB rules. From the looks of things, you aren't even a CB'er since you didn't have a call sign after your name. No hard feelings, but do you really have CB's best interests at heart, Mr. Aaronson?

Sgt. James E. Carey, Jr., KHD5777
Military Assistance Command
Vietnam (Saigon)
APO 314, San Francisco, Calif.

KEEP 'EM RIDING

Dear S9,

First let me say that I can hardly wait for the next issue of S9 to come out. I can't say which articles I like best, as I read them all. I am bothered only by "KBG4303 Rides Again." Not that I don't like the editorials, but I'd like to know where KBG4303 is going to ride, just once.

Arnold Sidmore
St. Paul, Minn.

KBG4303 can usually be found, on his old Palomino, slowly riding off into the setting sun.

WHAT'S IN A NAME

Sirs:

All the local CB'ers here have been wondering what your title, S9, stands for. We always hope that someday you will explain it in the magazine, but you never do. Does it refer to an S-meter, where a "9" is the best reading? Does it mean "Standby on 9"?

Please relieve our curiosity.

Gail Schwartz, KKK9606
Barstow, Calif.

We chose S9 because it was twice as good as S4½ and at least nine times better than S1. Someone once asked if it was a contraction of "assinine." Seriously, I think you hit upon it with your first guess, but the second is pretty clever and we'll think it over.

YOUR WELCOME, BOB

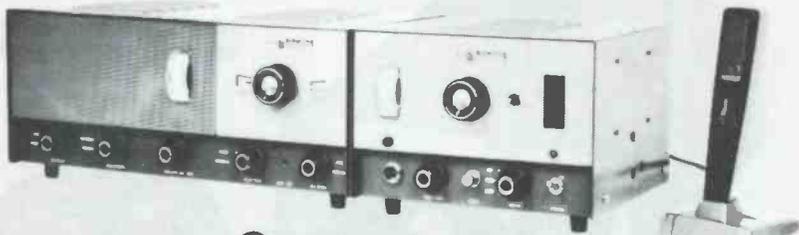
Dear S9,

I want to thank you for publishing the story of the accident I had last May in which I lost my right hand and part of my vision. I also want to thank your wonderful readers who sent cards and donations, they were all greatly appreciated. I am still in and out of hospitals, what with surgery, and would like to receive some more QSL cards from your readers.

Robert L. Goodin, KGF0813
Route 2
Rhineland, Wisc.



BROWNING . . . for CB'ers in the know.



One to stay.



One to go.

The Browning Eagle CB base station is perfectly happy to stay at home or place of business. The receiver has RF gain control, selectivity switch for broad or narrow selectivity, cascode nuvistor front end, 12 tuned I.F. coils. The transmitter has clipper-filter stage, built-in SWR meter and 23-channel operation. Everything's complete, no extras to buy. Best performing base station you can get . . . at any price. It's bound to be better, it's by Browning!

The Browning Drake M-523 likes to travel . . . by car, truck, boat, or other vehicle. It's the 23-channel mobile transceiver with the Browning base station quality features that mean perfect performance and amazing range. Compact unit measures 8" x 9" x 3". Reliable tube circuitry. Unit is complete with universal mounting bracket, 12V power supply, microphone, full set of matched crystals factory installed. Drake M-506 six-channel unit also available.

See this equipment at your franchised Browning Service Center or write factory for free color brochure.



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New CB-10 solid state transceiver



Ideal for business and personal communications

ACTUAL PERFORMANCE:

The CB-10 is a completely transistorized, extremely compact transmitter/receiver offering five-channel operation and the highest performance levels yet achieved in solid state CB transceiver design.

Its three stage transmitter is rated for full authorized power with maximum modulation capability. The dual-conversion receiver provides excellent adjacent-channel and image rejection • A series-type noise limiter drastically cuts auto and local interference • A special jack permits use of an external paging or P.A. speaker • Receiver sensitivity is less than $1 \mu\text{V}$ S/N ratio • Power requirement is just 1.0 amps on transmit (max. modulation) and 0.2 amps on receive.

ACTUAL SIZE:

2 $\frac{5}{8}$ inches high, 6 inches wide, 9 $\frac{1}{2}$ inches deep.

ACTUAL PRICE: **\$149⁹⁵**

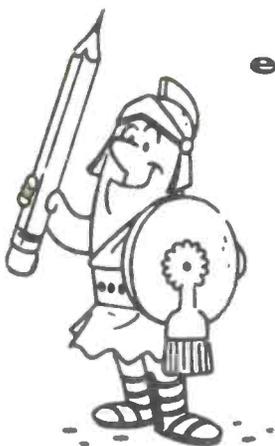


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editorial

KBG4303 rides again!

by TOM KNEITEL
EDITOR, S9

FOREIGN CB'ERS

Many letters are received here asking us to come up with the addresses of foreign CB'ers whose signals pop into North America whenever the band opens. As you probably know, there are no "callbooks" of these stations and there has never been a compilation of all of them.

We thought it might be nice to run just such a callbook right here within the pages of S9, a "bonus" for our readers, something which cannot be obtained from any other source. All it's going to take is *your* help.

Yes, we again come to our readers and ask them to share their information with other readers. Many of you have swapped cards with foreign CB'ers or have corresponded with them—you are the fellows and gals whose brains we want to pick. We ask that you folks kindly send along the information we will use to compile our directory. Here's the information we want: Callsign, Name, Address, City, Country. Please print in ink or type this information on any and all CB stations whose name and 10-20 you have, *other than* those stations located in the United States and its territories and Canada. Everyone who helps us compile this directory will receive editorial credit when it is published, and the publication date will depend upon the response we receive from *you*—how much and how soon.

Please send your listings to: CB International, % S9 Magazine, 14 Vanderverter Avenue, Port Washington, N. Y. 11050.

SCRATCH ONE FOR OUR SIDE

It's no secret that S9 was started with the hope that it would not only meet its expenses, but would also come out ahead (at least a little) at the end of the month. So each month we hope that our sources of income (subscriptions, advertising, and newsstand sales) will offset the continually growing expenditures (printing, overhead, salaries, postage, Bossa Nova lessons, etc.). This keeps our Advertising Department

crew dashing madly around the country twisting arms and displaying dotted lines; in fact, the advertising revenue of *any* magazine can be one of the major factors in the monthly life/death struggle. The relatively high mortality rate of CB publications, and the number of those which stagger along without being able to muster more than a scant 8 or 10 pages of ads each month, bears out the fact that selling ads in CB is no simple task.

About six or so issues back our Ad boys took on an advertiser who was to be with us for a page per month for the next 12 months—a total of more than \$5 thousand in business for us on a yearly basis. The first of the ads arrived and was placed in the magazine (by the way, my department seldom sees new ads prior to publication, they are generally handled by the Production Department which worries about their placement within the issue).

As soon as the issue came out we were besieged with mail regarding the new ad—some letters were downright angry, others asked for our opinion on the legality of some of the products in this ad. A quick look at it and I realized that the products which were being offered as "CB Accessories" were not acceptable for legal operation within the Citizens Radio Service. We immediately requested the advertiser to change the products and/or wording in his ad—although there was nothing actually illegal about his *advertising* the products, it was just against the law for CB'ers to *use* them. We sat patiently by for two more issues while the advertiser "decided" upon his future course of action with regard to the ad. It soon became apparent that his future course of action was to forget the whole matter and to see how long we would tolerate the ad—he knew that no magazine would casually slam the door on his \$5,000 per year. We gave him one final chance to change his ad; we even went so far as to redesign the whole ad to make it acceptable. He still wanted to "think it over."

Continued on page 66

Courier MOBILE LINEAR AMPLIFIER



**OPERATES FROM
25 to 50 mc**

(ILLEGAL ON 11 METER BAND)

1 WATT IN . . . 25 WATTS OUT
AM • FM • SSB • CW

\$109⁵⁰

slightly higher west of Rockies

Please send details on Courier Mobile Linear Amplifier.

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Address
City State

 **electronics communications, inc.**
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World famous manufacturers of quality CB & BB equipment including Courier 1M, Courier 23, Courier 12, Courier 30B, Courier 50 FM, Port-A-Lab, Transistorized Power Supply, Linear Amplifier.

SOMETHING NEW:



CB GOES BIG TIME

The automobile industry announced establishment of plans for a nationwide communications network to aid motorists in distress.

The system, to be known as *H.E.L.P.* for Highway Emergency Locating Plan, calls for the use of CB radio equipment in private passenger cars.

Motorists in need of aid would make their needs known on Channel 9 where it would be picked up by a round-the-clock monitoring station within the 10 to 20 mile range of the equipment. Monitors would include volunteer citizen teams, police agencies, road service stations and hospital emergency rooms.

Announcement of the new plan was made by the Automobile Manufacturers Association which pointed out that of the well over two million pieces of CB equipment already in use, approximately half are in motor vehicles.

AMA officials said the plan grew out of a growing concern by government agencies and highway safety groups over the lack of emergency communications facilities for motorists. They pointed out that this lack will become even more apparent as the nation expands construction of its limited access roadways. In seeking a solution to the problem, various states and areas

have experimented with systems of roadside telephones, solar powered emergency signal systems, roadside radio transmitters and emergency road patrols.

"Such systems, while commendable, may not be the most practical or economically feasible, in attempting to cover the nation's entire road system," AMA said. Therefore, the industry was asked to aid in developing improved systems.

In developing the plan, a special AMA engineering task force has been working more than a year in cooperation with leading radio manufacturers, volunteer citizen groups, and at least one CB publication.

The national *REACT* program is one of the organizations which has been working closely with the AMA to bring *H.E.L.P.* into being.

A number of volunteer groups are successfully operating smaller programs in various parts of the country, AMA said, and would be urged to join *H.E.L.P.* to effect a coordinated plan throughout the nation.

In addition to having the benefit of an effective emergency communications channel, motorists equipped with CB radio will be able to use the other channels for their business or personal





communications. Even non-equipped vehicles will benefit from the program through "Good Samaritan" motorists with the required equipment who broadcast on their behalf.

AMA said that rapid expansion of the *H.E.L.P.* program might eventually require assignment of special protected channels limited to automobile emergency use. The auto industry is petitioning FCC to study a proposal for the assignment of two such "clear channels" (22A and 22B) to encourage optimum utilization of *H.E.L.P.* installations and reduce mutual interference stemming from use of channels shared with regular CB stations.

A *H.E.L.P.* spokesman said that design engineers already are working to develop specialized auto radio equipment so that the highway emergency communications concept can be expanded.

Because the range of the equipment is limited and will be used by individual motorists only for short periods of time, the engineers feel that the "unused message capacity" could be used to a safety advantage by messages to motorists from police and highway authorities.

Present aims of the program, according to AMA is to encourage motorists installation of equipment, establishment of a nationwide monitoring system by proper groups, and to gain support for the plan from groups interested in promoting highway safety.

Information on the program can be obtained from *H.E.L.P.*, 320 New Center Building, Detroit, Michigan 48202. CB manufacturers, clubs, dealers, and individual operators are invited to request this data. Please mention *S9 Magazine* when writing.



1958...the RCA Radio-Phone Series

1959...the RCA Mark VII

1963...the RCA Mark VIII

and now 1964...

THE NEW RCA MARK NINE

the latest and greatest RCA CB radio of them all

Look at some of the new features...



NEW! Combination "S" Meter and Relative RF Output Meter

"S" Meter indicates the relative strength of incoming signal in "S" units. RF Output Meter (EO) indicates relative strength of the signal being transmitted.

NEW! Spotting Switch

Permits precise manual tuning of receiver without use of receiver crystals. Receiver can be tuned (or "spotted") quickly to any incoming channel. This means, when you buy crystals for extra channels, you can (if you wish) omit the RECEIVE crystals and buy only TRANSMIT crystals.

NEW! External Speaker Jack

Lets you connect an external speaker to the set, so incoming calls can be heard in remote locations.

RCA, a pioneer in the development of citizens' band radio, has been providing quality equipment since the inception of the Class D Citizens' Radio Service in 1958. Now, these years of experience culminate in the great new RCA Mark Nine.

Get all the Facts Before You Buy.
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- 9 fixed crystal-controlled TRANSMIT/RECEIVE channels, separately controlled
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Please send more information on the RCA Mark Nine CB Radiophone

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Address _____

City _____ Zone _____ State _____



The Most Trusted Name in Electronics

SHARPEN UP

THAT SINGLE

CONVERSION RIG

by GEORGE KUNZMAN, KIC1000

Sharpen up that "barn door" receiver?!! No, you won't have to part with a ten-spot to do it. Not even a fiver. Chances are it won't even have to cost you a cent. Here is the magic by which we pull this off. Most of these broad sets are so because they are only single conversion, and if dual-converted the tuning becomes razor-sharp. Another method, not quite as effective but still a major improvement, is to retain the same IF frequency but to add more stages and tuned circuits.

The first step is to determine the IF frequency of your set. This should be in the specification sheet or manual which came with it.

Normally for a single conversion set this will be 1650 or 455 Kc.

Next appropriate a regular broadcast receiver (you know, that dust-covered thing you haven't turned on since you brought home the CB squawk-box) and a chunk of hookup wire.

Wind a couple of turns of the wire around the back of the set near the loop antenna.

Locate the output IF transformer of the CB rig—this will be one next to the detector—first audio tube—and wind about two or three twists of the hookup wire over the lead from the IF transformer to the diode plate terminal. This should NOT be an electrical connection—do not strip the wire, leave the insulation on. We are simply capacitively coupling the IF signal to the wire.

The next step depends on the IF of your receiver. If it is 455, turn both sets on and tune the broadcast set to a spot on the dial where no station is heard. Tune in a strong signal on the CB receiver. You will notice it is heard on both receivers. A signal strong enough to occupy several channels on the dial when listening to the CB unit will probably only come in when tuned "on channel" if you are listening to the BC set. If broadcast stations are numerous or strong, short the smaller (oscillator) plates of the tuning capacitor to the frame.

If the IF is 1650 Kc tune on a strong signal and tune the BC receiver to the high end of the dial—1600 Kc. Then loosen the trimmer capacitor screws—located on the tuning capacitors—and the CB signal should come booming through. Adjust these for loudest signals.

The CB unit will still function nearly normally. Performance will be slightly down, due to a slight detuning by the coupling lead put in. Unless the tuning capacitor had to be shouted out, the radio should still work as well—or better—than ever.

If the 1650 Kc. system was used, the radio will work reasonable normally, but the stations will come in at different points on the dial, and some of the lower-end ones will be very weak or missing. Remember to tune all the way back to the top for CB!

The 455 Kc. system will enable you to listen to a moderately weak BC station and still monitor for your mobile! A strong signal will override the broadcast station and come in over it!

This method does have a couple of drawbacks. In areas of heavy noise, the lack of a noise limiter and squelch will be a drawback. However, due to the high gain the volume can usually be run so low there is little or no need for them. With the CB volume all the way off and the BC set just cracked, even weak signals are heard with plenty of volume.

This method should prove satisfactory—or at least get you by—till you get the scratch together for that little ultra-ultra version with all the frills you have your eye on down at the electronics emporium.

Editor's Note: In one version, the poor rejection of the front end is used to pass the 455 Kc signal to the converter tube, which in this case passes and amplifies the signal to and through the BC IF stages. In the other, the front end is readjusted to tune as high as 1650, and actually forms a true dual-conversion setup. The other acts as an additional two stages of IF amplification and selectivity and audio output.



CB'er, why is Mosley's Devant "1" so popular?

THE SECRET IS IN THE OUTSTANDING DEVANT CONSTRUCTION AND PERFORMANCE. LOOK CLOSELY AT THIS ANTENNA.....

Fig. 1, The vertical aluminum elements terminate in a durable phenolic sleeve. The radials terminate in a cyclac base - - equalling a 'steel-strength' construction at this all-important connection.

Fig. 2, The Devant "1" is easily mounted, merely by slipping the light-weight Devant "1" on the mast and tightening two screws and lock nuts, the Devant is installed. (The Mosley Coax-female connector is part of the radial support assembly insuring weather proof construction.)

Fig. 3, Illustrates 'swaging'. Tapering the ends of aluminum tubing reduces wind load and vibrations which cause metal fatigue.

Fig. 4, The loading and impedance matching in the Devant "1" is accomplished through loops of 1/8" aluminum rods. This matching system features a grounded element for lightning protection and static reduction.

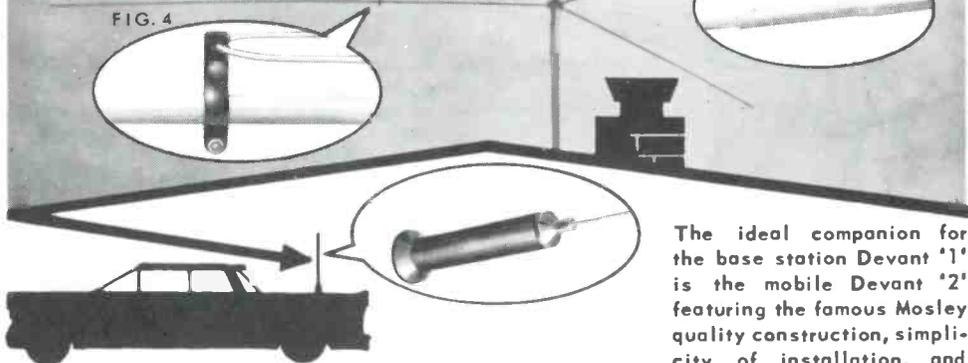
ONLY \$22.76!

FIG. 1

FIG. 2

FIG. 3

FIG. 4

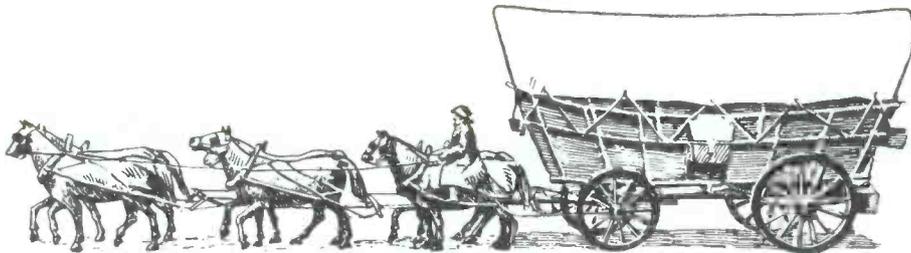


The ideal companion for the base station Devant '1' is the mobile Devant '2' featuring the famous Mosley quality construction, simplicity of installation, and easy-to-load characteristics . . . priced at only \$14.50

See the OUT-IN-FRONT Devant line by Mosley at your Dealer's showroom today! For detailed specifications and performance data write . . .

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READERS' BONANZA!

TAKE YOUR PICK OF THESE GIFTS!

For some time now we have been offering all kinds of free goodies with new subscriptions and renewals, we vary them each month. But we always seem to get requests for bonus items which haven't been offered for several months and that sends the Circulation Department into a tailspin. So here it is, a grand round-up of all the various offers, tied in with an exciting offer for you to get several of these things **FREE** with your subscription or renewal.

BONUS ITEM #1 — Large 3 inch, 3 color, "Monitor Channel 9" decal. Regularly sells for 50¢.

BONUS ITEM #2 — 50 Project Aid cards which you are required to use to notify the FCC whenever you use your CB rig to help a stranded motorist or for any emergency use. These sell for \$1.00.

BONUS ITEM #3 — Membership in the Association to Condemn Detrimental Associations (ACDA), now the world's largest do-nothing CB club. No officers, no program, it was patterned after one of the so-called "national" CB clubs. You get a big red and gold certificate for your wall with this one.

BONUS ITEM #4 — Do-It-Yourself-59-Editor-Kit — Yes, an official multicolored 59 Press Card which will get you on buses (show it when you pay your fare), also a 10-code card, plus one of our now famous green and white "Wall Certificates."

BONUS ITEM #5 — Our new insanity, the KING OF THE BAND certificate; something to hang on the wall of your shack to let visitors know that you've earned yourself a place in the sun. You get your call letters lettered across the throne. Regularly 50¢.



With a 1 year subscription or renewal you get your choice of any one of these items; with a two year subscription or renewal you get your choice of any **THREE** items, and a three year subscription earns you not only all **FIVE** items **FREE**, but we will bow towards your 10-20 once a week (on payday). Just check off the item or items you want, rip out this page and enclose it in the postage-paid envelope (in this issue) when you send in your subscription.

RATIONAL VS. IRRATIONAL:

THE FCC AND CB RADIO

by ALLEN GREENFIELD, KKN3185

The author of the following wrote this editorial comment on the current status of CB "with no holds barred." At first, I didn't know if I should permit anything so outspoken in S9. It takes several (I feel incorrect) sharp pokes at us and our editorial policy. The author's feelings, however, do seem to represent the sentiments of a number of S9 readers who have written similar thoughts to us over a period of several months. I have always felt that one of the basic tenets of a free press is the right of all parties to be heard, and certainly the CB hobbyist, legal or illegal, has long deserved a clearing of the air.

Mr. Greenfield, it can be noted, is the Editorial Director of the American UFO Committee. If the following article whips you into a mood to write to the author, contact him at 2875 Sequoyah Drive, N.W., Atlanta, Ga. 30327.

KBG4303

CB Radio is the biggest legal technicality in the United States today. The latest figures¹ show that 750,000 persons are licensed for CB operation. Of these, it is certain (though many "official" sources would deny this emphatically) that a large percentage of these licensees are using their CB units almost exclusively for hobby operations; a use which the Federal Communications Commission has labeled illegal. When put into perspective, this means that literally hundreds of thousands of generally law-abiding Americans are operating outside the framework of the law in pursuit of a hobby.

Before considering the question of why, it might be well to make it clear that the author is not advocating any form of extra-legal activity. He is simply stating the blunt facts as they are; something seldom done even in the most adamant CB magazines. Apparently many publications fear (quite understandably) to mention present hobby activities on the part of CB'ers, because they might be accused of promoting illegality. This is just one of many symptoms of the present irrationalism which seems to engulf this whole field, which the author feels is due to the totally unreasonable policy of the FCC.

The untenability of the present deplorable situation is evidenced by a number of books and publications currently on the market which—though obviously written exclusively for hobbyists—constantly implore their readers to "obey the law." The "law" obviously cannot be obeyed so long as the reader continues to pursue his CB hobby; and the publication or book in question (it is equally obvious) could not continue on a profit-making basis if the readers were to take their advice! A person unacquainted with CB might consider the status quo amusing. But upon reflecting, any responsible citizen can see the seriousness of a situation where in a United

States Government Agency, THE SAME AGENCY that controls television, commercial radio, and other communications media in this country is directly responsible for such a massive FARCE as this. It is a cause for serious alarm on the part of all Americans, whether directly engaged in CB Radio or not.

Now to the question of "Why." A widely-quoted FCC statement² makes their position on "hobby-type" communications clear: "The Amateur Radio Service is available to all citizens of the United States who are interested enough to qualify themselves—and the knowledge and code skills required to obtain a Novice Class 'ham' license are easily acquired." The statement simply does not hold water under even the most casual examination. If the requirements for the legally sanctioned "ham" service are so easily met, why have so many thousands of citizens chosen to operate outside the law? Certainly, it is not a question of economy. The cost of an average "ham" unit is most assuredly comparable with that of a CB unit. The obvious answer would then be that the problem would have some relationship to the "easily acquired" code and skills necessary to obtain a "ham" license. Tom Kneitel, Editor of *S9 Magazine*, summed up the CB'ers dilemma this way³: "The FCC says that hobby use of radio is adequately served by the ham radio 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 a citizen? Is his inability to learn, or lack of interest in electronics, a valid barrier to his being able to communicate via radio. . . . Does every-one who drives a car have to be a mechanic?"

It must be duly noted that this is not a problem of intelligence. Small children of a technical bent have qualified for a "ham" license. In addition, a significant number of people who are qualified "hams" ALSO have taken out CB licenses. We must therefore conclude that CB'ers are not—as a group—"second-class hams who couldn't get their licenses." This oft-quoted slander of CB hobbyists is purely and simply a myth; and a rather malicious myth at that.

It may at this point be well to ask if there are, indeed, as many hobbyists using CB radio as we have stated. A good portion of CB licenses issued by the FCC are for doctors, delivery services, and other vital non-hobby pursuits. No one questions the fact that these more serious uses of CB take precedence over the hobbyists.

2) From FCC *SS Bulletin* 1001a, January, 1964. Excerpts.

3) *S9 Editorial*, October, 1964 issue. Excerpts.

1) Figure from a letter from National Association for Citizen's Band Radio—10/30/64.

The FCC, in fact, gives this as the only legitimate reason for the continuation of the Citizens Radio Service. From this stems the major criticism of the present hobbyists (and, in fact, the *only* criticism this author considers at all credible), this being that numerous hobbyists jamming the CB channels prevents the commercial users from making use of the service; a service, they argue, designed only for them.⁴

Getting back to the point, the very fact that there are enough hobbyists to cause a "jamming" of the airwaves seems to indicate that a large portion of the licensees are, in fact, hobbyists. There are also other indicating factors. Take for example the sudden mushrooming of "CB Clubs." Since the present CB system became effective several years ago, a great number of clubs devoted to CB have sprung up all over the nation. Though some of these clubs—in addition to hobbying—participate in Civil Defense work, virtually all of them can be described in no other way than "hobby clubs," in the fashion of stamp collecting clubs, rare coin clubs, ham radio clubs, bridge clubs, and chess clubs. It is a staggering thing to think of when faced with the fact that all of these clubs—if only technically—are devoted to an illegal hobby. How utterly preposterous can we get! This is as fantastic as the witchcraft laws still in force in some obscure communities!

It would become tedious to the reader were we go into some of the other bizarre aspects of this curious situation, such as the fact that many well-known companies that sell CB equipment are placed in the ignoble position of being the equivalent of a dope-peddler by these anachronistic laws, or that by these laws thousands of our finest college-aged youths interested in communications are *de facto* law-breakers. There are, of course, some persons who have taken advantage of the liberal rules for acquiring CB licenses to pursue extra-legal activities. But it goes without saying that there are a few sour apples in every barrel. Most CB'ers who pursue radio communications as a hobby are as innocuous as, say, those who pursue chess as a hobby. We cannot fail to also note that the fairly high cost of CB equipment would tend to discourage those who approach the subject with purely superfluous intentions. Why this should be so blatantly obvious to us and not to the FCC is a matter for conjecture.

Having established the wide use of CB as a hobby, and further the complete *rationality* of such use, what remains is the problems of why the FCC has not to date sanctioned such use or even, we venture to say, seriously considered it. Is there any case against CB? Is there some valid reason for the perpetuation of the present policy which is, incidentally, growing progressively worse, not better? Having looked at the matter carefully, the present writer must confess that he can find no real case for the FCC position, and further cannot help but add that the FCC cannot make much of a case either. It is our unavoidable view that there just isn't a valid de-

fense for *FCC Rules and Regulations, Part 95* as it presently stands. Further, it would take massive revisions to arrive at something tantamount to realistic regulations for the Service. We say this with all due respect to the FCC as an agency. Their present policy is not merely an anachronism; it has been irrational and unconscious of the facts from the day it went into effect.

With all of our criticism the reader may wonder if we have any kind of solution to offer. To be perfectly honest we don't. However, towards finding a solution we do have several suggestions which may be of help. Though we would hope for a complete revision of present regulations, we cannot reasonably expect such in the foreseeable future, despite the valiant efforts on the part of some segments of organized CB towards this goal. We appreciate the FCC's understandable caution and therefore offer proposals more in line with what we might expect the FCC to do than with what we might *like* them to do.

Firstly, the basic demand of many CB'ers is that the Citizens Radio Service licensees be given the same communications privileges as the "hams" presently have. The FCC apparently has reservations about this, but why not try it as a test for a limited period of time? If it works out, then the FCC can consider establishing this on a permanent basis. Short of this, the Commission could try this experiment in a more limited way if it so preferred. It could be done in only one section of the country, or for that matter in one *city*, even on only one channel.

Secondly, assuming the FCC is not agreeable to the above, there are certainly some restrictions in the present regulations that could be abolished. We think that the provisions against "CQ" calling would be a fitting start, for we regard this as the absolute apex of the present incongruity. Other small inconveniences such as the five-minute time limit or the posting of this-and-that ordinance (eg. the "10 code" if used), could also be easily changed without destroying the present system . . . if the FCC is determined to maintain it. Something outside the written rules and regulations but falling into this same category should also be ended, in the name of decency if for no other reason, this being the present policy of the Commission to issue a veiled threat to CB'ers every now and then of abolishing the Citizens Service altogether if CB'ers don't "get into line." This falls just short of being blackmail.

Thirdly and finally, if the above two proposals are disagreeable to the Commission (though why they should be beyond us), there is one more minimal alternative which can be taken . . . indeed, *must* be taken. Citizens Band Radio is a hobby. It has been a hobby since the present Service was set up, and will in all likelihood continue to be a hobby in the years ahead in ever increasing proportions. The very least the FCC could do is to recognize it *as such*, and make all future rules governing CB with this fact in mind.

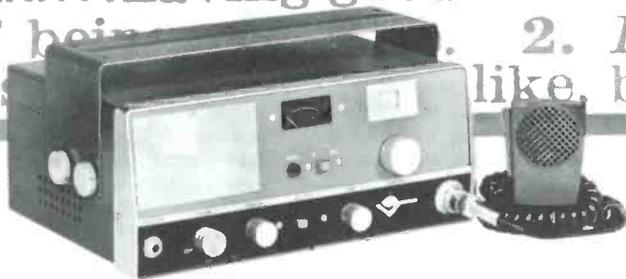
Any other course, in light of the facts, would be sheer folly.



4) One doctor reported losing a patient's life because of misuse. New rules will easily solve this problem.

***se·lec·tive**(sĭ lĕk'tĭv) *adj.*

having the function or power of selecting; making selection characterized by selection. 1. *Radio.* having good selectivity of being heard. 2. *Elect.* like, by virtue of being selected.



*CONTACT!-23

AT LAST! SELECTIVITY THAT REALLY SELECTS!

The Contact!-23 has achieved exceptional selectivity through the use of a true Mechanical Bandpass Filter — similar to that found in far more expensive ham equipment.

AND THERE'S LOTS MORE TO THE CONTACT!-23

You get crystal control on all 23 channels, both Transmit and Receive, via a synthesized circuit — all crystals included.

- Illuminated, angled front panel
- Built-in speech compressor
- Fine tuning
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- Modulation indicator
- Transistorized power supply, 12V and 110V
- Cigar lighter plug-in
- Electronic switching
- Earphone jack
- PA system jack

Complete with: microphone, cords and snap lock mounting brackets.

USL CONTACT!-23 \$19950



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Illuminated, angled front panel. 23-Ch. tunable receiver with 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 pr. of crystals and snap lock mounting brackets. Cigar lighter plug-in, easy to install. Nuvistor low noise front end.

USL T 1050 A \$11995

23-Ch. tunable receiver with illuminated dial. 6-Ch. crystal-controlled transmit & receive. Illuminated S & RF meter. Crystal spotting. Earphone jack. Nuvistor low noise RF front end. 6V or 12V power supply available (optional extra). Unit comes complete with: microphone, AC and DC cords, 1 pr. 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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ONE MONTH TO GO!

DON'T GET LEFT IN THE COLD

Last month we announced plans to issue the first edition of a "who's who" type directory of active CB operators—a gala volume of all pertinent information concerning our brother (and sister) CB'ers. This type of information has never before been available, as the regular "CB Callbook" listings have proven to be hopelessly inaccurate, muddled, outdated, and barren of any *real* information about the CB'er in question.

All we need to put such a directory together and send it on its way to fame and immortality is—*YOU!* Yes, the only one who can give us accurate information on you and your CB operation is none other than little old you. To obtain this information, we offer here a questionnaire which you may complete and return to our offices so that we may "set you in type." This form will be published only this month and next month, and clubs are requested to run it in their newsletters (together with the information on how to submit the form to us). If you don't wish to cut your copy of S9, you may duplicate the form in ink or typewriter. The absolute last day we will accept these forms in our office is April 18th, 1965.

Each CB'er listed in the directory has a chance to pass along to the CB world a 50-character message (letters, numbers, and spaces count as one character). This message might be something like: "The coffee

pot is always on," or "All QSL swap requests answered 100%," or "Let's swap tape recordings," or "Give us a buzz when passing through Omaha." We reserve the right to edit any messages which in our opinion are either in questionable taste or outside the scope and spirit of the publication.

We are making every effort to include in this directory only those CB'ers who are going to list accurate information and not make attempts at being funny with clever answers to the questionnaire. We are therefore asking that when you return the form, you enclose \$1 in cash, check, or money order (which will be put towards printing the book). This \$1 will be deductible from the final sale price of the book—so if the final price should turn out to be, say, \$3—those listed in the book would pay only \$2. Husbands and wives wishing two separate listings can submit both together for \$1.50 (this would still allow \$1 off the price).

In order to be listed in the 1965 "Who's Who in CB" Directory, do the following, and do it *NOW!* Fill out the form which accompanies this article (you may skip any questions which you don't want to answer), enclose \$1, send this to: "Who's Who in CB," % S9 Magazine, 14 Vanderventer Avenue, Port Washington, N. Y. 11050. Remember, the faster we get this information from you, the faster we can go to press!

"WHO'S WHO IN CB" QUESTIONNAIRE

IT IS NOT NECESSARY TO ANSWER EVERY QUESTION, BUT PLEASE TYPE OR PRINT PLAINLY IN INK FOR ALL QUESTIONS YOU DO ANSWER. TO BE LISTED IN THE 1965 "WHO'S WHO IN CB" DIRECTORY, RETURN THIS FORM AS SOON AS POSSIBLE (BUT NOT LATER THAN APRIL 18th, 1965) TO "WHO'S WHO IN CB," c/o S9 MAGAZINE, 14 VANDERVENTER AVENUE, PORT WASHINGTON, N. Y. 11050. ENCLOSE \$1, WHICH YOU MAY DEDUCT FROM THE FINAL SALE PRICE OF THE BOOK SHOULD YOU DECIDE TO PURCHASE IT.

CB Call: _____, Name: _____

Address: _____

City: _____, State: _____, Zip: _____, Tel. No. _____

Occupation: _____, Hobbies: _____

Wife/Husband's name: _____ Do you swap QSL's? Yes , No

CB Club(s): _____, I monitor channel: _____

Former CB calls held: _____ Ham call: _____, band: _____

Message (50 characters maximum; letters, numbers, spaces count as 1 each); all messages are subject to editing at our discretion: _____

MR. BUSINESSMAN,

DO YOU HAVE

“WHO-DAT-ITIS”?

What do CB'ers say when they hear your name? Do they shrug their shoulders and say “Who dat?” while you lose business? S9 to the rescue with a quick and easy way to cure “who-dat-itis?” And this applies to *all* CB'ers in business, not only CB dealers and manufacturers—printers, coffee shop owners, service stations, etc., can take the cure.

Very shortly, S9 Magazine will publish a big “Who's Who in CB Directory,” a guidebook which will be constantly used by thousands of CB'ers in the U.S. and Canada throughout the next year. We will be accepting ads in this volume at the lowest cut-rates ever available anywhere in the CB field—in fact, these are “display” ads at “classified” rates.

1-inch high by 2½-inch wide ad in the S9 “Who's Who in CB Directory/1965” will look like this:

QSL'S by GARTH

Nation's Largest

From \$2.50 per 100 in 3 Colors

Free Samples & Catalog

Garth Printing Co. Jutland, N. J.

OR

SOUTHERN CALIFORNIA CB'ers!

San Diego's Largest CB Distributor
All Popular Rigs • Sales and Service

Seaview TV & Communications Co.

337 Third Avenue, Chula Vista, Calif. 92010

KKX7334 Ch. 11, Open Daily 9-9 Sat. 9-6, 422-4295

OR EVEN



LARRE'S French Restaurant

LUNCHEON from \$1.50

DINNER from \$3.00

- COQ AU VIN
- FILET MIGNON

50 West 56 St., N.Y.C.

Phone: CI 7-8980 or CI 7-8557

Seats
270
Persons



What do you think it will cost? Sorry, Charlie—this time you goofed, baby. These ads are only \$10—that's T-E-N. Crazy? Yes, but you get the breaks because we expect to print so many copies that the price-per-copy of the book will permit such unheard of goings-on.

Here's how to let CB'ers know that you're “on the map.” Don't be a “who dat?” anymore. First ads received here get the choicest locations. All ads are payable in advance; sorry no photographs in the ads at these rates. Rush the form to us to take advantage.

“Who's Who in CB Directory/1965”
Cowan Publishing Corp.

14 Vanderventer Avenue
Port Washington, N. Y. 11050

Enclosed is \$10 and my ad copy for “Who Who in CB Directory/1965.” The following is the ad copy:



Name: _____

Company: _____

Address: _____

City: _____, State: _____, Zip: _____

EXCITIGATED?*



YOU CAN JUST BET WE ARE...

'cause we're set to go with the

BEST CB MOBILE IN THE WORLD!

If you're a little curious about TRAM'S new all-out development, write us and we'll send you the advance dope, quick-like-a-bunny!



*Def: Enthusigated,
titillagated

The following disclosure paragraph is in compliance with request by Federal Trade Comm.:

"F.C.C. station license required. All use must conform with Part 95, F. C. C. regulations. Hobby-type communications or aimless small talk prohibited."

TRAM

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WINNISQUAM, N.H. 03289

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Where It's Habit To Improve

THE TOOTER

AN AUTO-BURGLAR ALARM

by PETER S. CARR, KLP6503

There are many Burglar Alarms for cars available today but they all depend on the driver who must turn them on when he leaves the car. You KNOW you will remember to turn it on every time but are you sure that your wife will? Unless you are a two car family and hers doesn't have a rig, what can you do to keep that expensive piece of gear from being stolen?

The circuit in this article is a pretty good answer. It's fully automatic and offers double protection against theft. And the added bonus is that no matter whether your car is six volt or twelve, big or small, this system will work. The cost of parts and time is small compared to the replacement of your rig.

The operation of the unit works like this. When the ignition is on, Relay #1 is energized and removes power from the Alarm. When you shut the ignition off the relay closes and turns on the Alarm. This is the automatic feature of the circuit.

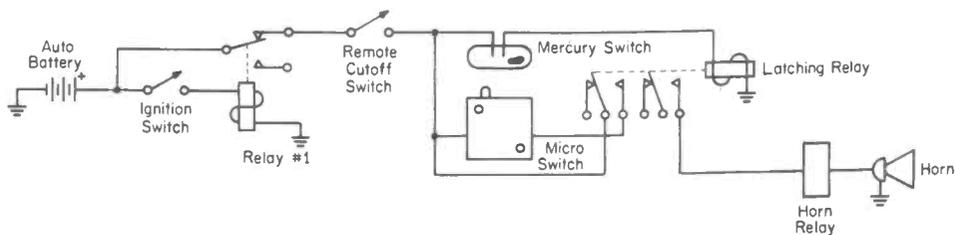
Power is applied through the manual cutoff switch to two switches wired in parallel. The mercury switch is mounted in the radio case and is set in the open position when the set is in the mount. The second switch is a Micro type which is externally mounted for two reasons. First, it acts as a decoy to warn the thief that the rig is protected and second, if not no-

ticed will serve it's normal function of tripping the car horn. It is positioned on the mobile mount so that the rig holds it in the open position under normal conditions.

If either or both the switches close they pass current to a "latching" relay which both keeps itself closed and turns on the horn. The two switches need only conduct long enough for the latching relay to close, from then on the horn will blow even if the switches are ripped out. The remote cutoff switch serves to silence the system for removal of the set by its owner and to stop the horn if an attempt has been made to take the rig.

To prevent the relays from getting dirty and affecting their operation the use of sealed types is recommended. Wiring layout and polarity are not important where the Mercury and Micro switches are paralleled should be away from the set itself. The remote cutoff switch should be easily reached but well hidden. Most types of Alarms use them and the educated thief may look for the switch before trying to take the rig. All leads from the radio can be taped to your antenna, ground or power wires so that they are not readily noticed and will not affect normal horn operation.

This is one circuit that can save you a bunch of money. So try it soon—before it's too late.



PARTS LIST

Relay #1—6 or 12 VDC Heavy Duty (Sealed Type).
Remote Cutoff SW.—115 VAC, 3 AMP S.P.S.T.
Mercury SW.—1" x 1/2", 115 VAC 3 AMP S.P.S.T.
Micro Switch—Lever or Button Type, 111 VAC 3 AMP S.P.S.T.

Latching RLY—6 or #2 VDC (Sealed) with 2 contact sets.
Misc—18 gauge Hookup Wire, Relay Mounting Hardware.



DX

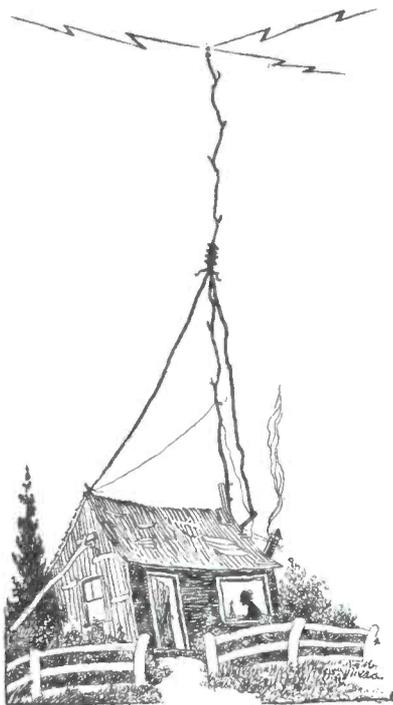
a

la

BCB

HOW MUCH CAN YOU HEAR?

by T. A. MULVANEY III



Would you believe it possible to hear Japan, China, or even U.S.S.R. on the standard broadcast band? Most DX'ers seem to overlook the broadcast band for distant reception. This is probably due to the multitude of QRM (interference) on this band. But, if you know when to listen and on what frequency you can hear these countries and dozens of others.

RECEIVER

The most important thing is a good receiver, however an ordinary house receiver can be used for domestic BCB DXing. Here in the United States there are three types of broadcast band stations. The first is the *Clear Channel*. These stations operate on clear channels with a power of 50,000 watts. Such stations are: WLS on 890 kc in Chicago, KDKA-1020 kc in Pittsburgh, WBZ-1030 kc in Boston, and about 20 more. These stations are easy to hear on most radios. The second type of station is the *Regional*. Regional stations operate on other frequencies than clear channels with a power of 5,000 or 1,000 watts. Such stations include KMEN-1290 kc in San Bernardino, Calif., WSAI-1360 kc in Cincinnati, WFLA-970 in Tampa, Fla., plus hundreds of others. These stations are harder to receive at remote points because they share the same frequency with other stations in different locations. The third type is the *Local Station*. These operate on the following frequencies: 1230 kc, 1240 kc, 1340 kc, 1400 kc, 1450 kc, and 1490 kc usually with 250 watts or less. DX'ing these stations offers quite a challenge. There is plenty of QRM as there are dozens of stations on the same channel. Examples of these are WABJ-1490 kc in Adrian, Mich., KWSL-1340 kc in Grand Junction, Colo., KMAK-1340 kc in Fresno, Calif. plus many more.

Most of these stations will QSL reception reports if you include return postage plus a good report of what you heard. All reports sent to broadcast band stations should be sent to the Chief Engineer. He is the usual person who answers such reports.

With a good receiver stations such as JOIB on 750 kc in Sapporo, Japan can be heard. The only time to hear these is this time of the year during the early morning hours. *Radio Peiping* has a strong transmitter on 1040 kc which can be heard over WHO in Des Moines after 5 A.M. EST. TGJ on 880 kc in Guatemala City can be heard here in the U.S. quite well if WCBS in New York is not too strong. Cuba has many stations also. If you listen closely you can hear Cubans under KFI on 640 kc and WGN on 720 kc. Both KFI and WGN are clear channels in the U.S.

Don't be discouraged if you don't hear much due to the QRM. Monday morning from mid-

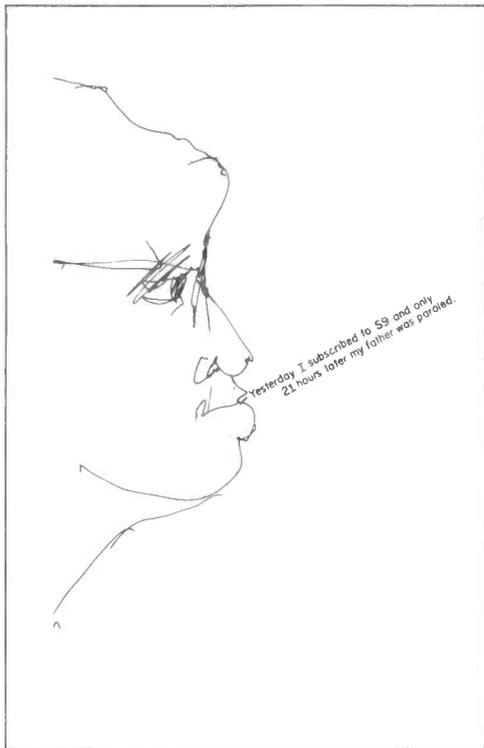


night to dawn offers good reception of distant stations because on Monday morning many stations leave the air to test their equipment, etc.

Another thing to watch for is daytime only stations, and there are plenty of these. The best time to hear these is at sunrise and sunset. Also these daytimers often come on early in the morning for test purposes. Some have a power of 50,000 watts too! KXL-750 kc in Portland and KDAY-1580 kc in Santa Monica, Calif. are two stations with 50,000 watts day only. A large number of stations also operate with a lower power at night to prevent heavy interferences. For example a station might have 5000 watts during the day and 1000 watts a night.

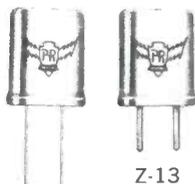
Now why don't you get down to that BCB DX'ing?

S9



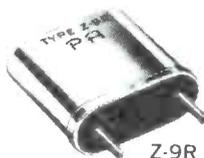
**CITIZENS
BAND**

Crystals



Z-13

**are Precision-Matched
for More than 300
Transceiver Models**



Z-9R

Get PRs from your CB Dealer. They'll not only *match* your equipment, but give you the finest frequency control that money can buy . . . and EVERY PR CRYSTAL IS UNCONDITIONALLY GUARANTEED.

Z-13P

PETERSEN RADIO CO., INC.
2800 W. BROADWAY
COUNCIL BLUFFS, IOWA

OPERATION CRASH ALERT

CB'ERS TRY, IN VAIN, TO SAVE A LIFE

by **LEE AURICK, KCD5514**

S9 always has been devoted to reporting the benefits that CB radio brings to its users.

This month, however, we would like to enter into the record an equally important service, and one that would very likely not have been available from any other service in this particular instance. It is our sad duty to report that the emergency communications invoked by the CB operators involved did not save the young man's life, but this story, told to us by Howard Vollweiler, KBI9295, should serve as an inspiration to all CB'ers who find themselves involved in a similar situation.

"A dramatic life and death struggle took place in this area one Friday night a few months ago, as Citizens Band Radio Operators of the greater Fayetteville-Fort Bragg area took part in emergency procedures in an attempt to save a young boy's life.

"Late that night a vehicle carrying two passengers went out of control, crossed a highway divider and crashed into a tractor-trailer truck, immediately killing the automobile's eighteen-year-old driver and critically injuring his young passenger.

"The youth was taken to Loris Community Hospital in Loris, South Carolina at which time a CB Radio appeal was made in both North and South Carolina for the boy's rare, type O-negative blood. Immediately the local CB'ers tackled the problem, but a check of the blood types of local CB'ers in the area had negative results.

"Rusty Collins, KKK2456, a local CB'er, then called Womack Army Hospital at Fort Bragg, who said they could furnish four pints of the life saving fluid.

"During a fast, twenty mile trip to the hospital, channel 15 was cleared for emergency traffic and CB'ers Warren Mazingo, KDA0426; J. T. Godbold, KCI0967; J. M. Smith, 5Q0565 and many others stood by on the channel to handle all messages.

"It was immediately arranged for a Cumberland County Sheriff's Department Patrol Car to meet us at the end of the military reservation and escort us through Fayetteville to avoid stop lights and traffic, but a way was found to speed the blood on its way even more quickly when Allen Fowler, KKK-6046, another local CB'er contacted Colonel Collins at Fort Bragg, who called Simmons Army Airfield and arranged for an HB-13 helicopter to transport the blood to a private airstrip just a few miles from the hospital.

"The doctors had given the young boy very little hope for survival but, twenty minutes later, the helicopter was airborne and on its way to Loris, 80 miles away. The Army helicopter touched down less than one hour after take-off to find that the sixteen-year-old victim had, minutes before, succumbed to the injuries he had received.

"There were many saddened CB'ers when the news arrived, and the channel became unusually quiet, but everyone knew he had done his best and that there are some things you just cannot change when the inevitable occurs.

"All concerned give a vote of thanks to the Cumberland County Sheriff's Department; the Fort Bragg Provosts Marshal's Office and the two Military Policemen who escorted our vehicle quickly and safely to the airfield; to the helicopter pilot and his navigator; the crew at Simmons Army Airfield, for their help and encouragement; and most of all, to Womack Hospital for their quick response to our call for help."

This report highlights the growing responsibility which CB'ers are receiving from the public. We at S9 are interested in complete reports on other disaster or emergency situations in which CB is involved. As space permits, every effort will be made to report them.

S9

Watch for next month's big issue

Who ever heard of a 30 Channel C.B. Unit?

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In addition...

we'll reveal the Poly Compact. The world's smallest 11 channel CB unit.

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THE "CINCH"

A BUILT-IN MODULATION MONITOR

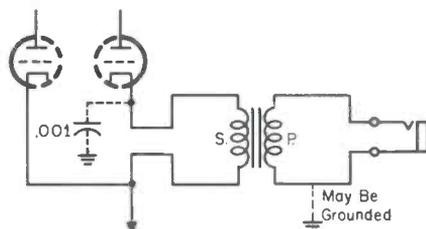
by ROBERT B. KUEHN, W0HKF/16Q0744

Many CB enthusiasts are experimenting these days with modulation limiters, purchased either ready made or in kit form. With little or no test equipment, however, the average Charlie Brown is usually hard put to tell how his set sounds with and without limiting, and must rely on the too often vague and unsatisfactory reports he can elicit from on-the-air contacts.

But there is a fairly simple and quick way one can listen to his own modulation while adjusting limiters, substituting microphones etc. All it requires is an inexpensive plate to voice coil output transformer and a pair of earphones. Such transformers are rated according to the impedance of the speaker they are designed to match, i.e., 4, 6, 8 ohms and so on. If there is any choice, the higher impedance one should be chosen, as it will tend to give more volume in the earphones.

The transformer should be placed as close to the final RF tube as space will allow. The secondary winding (usually heavier, solid leads) is connected in series with the final RF tube cathode as shown in the diagram, with as short leads as possible. The primary leads then go to the earphones. The length and placement of the latter are not critical, and depending on the type of set, a phone jack or a pair of binding posts can be mounted on the front or rear of the cabinet, or simply a pair of twisted wires running through a hole or louver can be used.

Normally, such an installation does not effect the operation of a transceiver at all, but as a precautionary measure a .001 ufd capacitor can be placed directly from the



cathode of the RF tube to ground to help keep the RF where it belongs.

With earphones connected, the results of substituting mikes, limiter adjusting etc. can be plainly heard. It should be remembered, though, that the purpose of a modulation limiter is to boost the average per cent of modulation, *not* to allow the CB'er to talk 3 or 4 feet back from the microphone. Inevitably, if the mike is not close-talked, room echo sets in, making the signal unpleasant to listen to and difficult to understand.

Acoustics within the microphone must be watched as well when trying different cartridges. Too much empty space within the mike shall sometimes give rise to unwanted resonance or echo effects. Remedy is to fill the extra space with wads of cotton.

Two standard sentences with high energy content for testing modulation are, "Joe took father's shoebench out" and "She was waiting at my lawn."

S9

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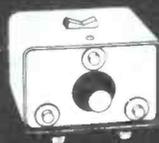
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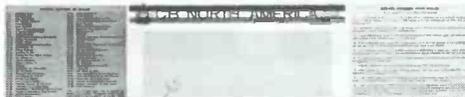
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ON THE COUNTERS



One of the most attractive additions to any CB shack we've seen is the multi-colored "CB North America" map and guide being offered by CB Calls Map, 46 Washington St., Rutland, Vt. Firstly, it is a map of the U.S. and Canada which shows all of the CB prefixes, including the new 1965 ones. All time zones are given, also the complete official CB 10-code, a résumé of FCC rules and regulations governing CB, a space for printing your callsign. This is printed in 6 colors on heavy paper and is almost 2 feet wide by over 2 feet high. We feel that this item is well worth more than its purchase price of \$1. It may be ordered directly from the manufacturer.

If you were one of the 4500 S9 readers who sent in a QSL card to United Scientific Labs in their "free CB rig" drawing, you'll be interested in knowing that S9 subscribers Bob and Eleanor Koski of Ashtabula, Ohio, won the "Contact 23" rig. The "Contact" was won by S9 subscriber Dan Pettigrew,



Pottstown, Pa., and the "T-1050" rig was carried off by Kieth Farnsworth of South Bend, Ind. Our photo shows Bernie Sussman, USL's National Sales Manager (on the right) pulling the winners out of the batch of entries. Fenimore Fisher of USL is on the left.

In January we told you about the new Menmo indoor CB antenna. The price was incorrectly reported as \$14.95; the manufacturer tells us that the correct price should have been listed as \$24.95.

Don't forget to send a QSL card to Uncle George for International Crystal's new 1965 CB catalogue. International has some exciting new gear in this book (wait until you see their new EXECUTIVE 222 rig—wow!) and it's free. International's 10-20 is: 18 North Lee, Oklahoma City, Okla.

Electra, Inc., Box 464, Somerville, N. J. offers a feed-through capacitor (.5 at 50 VDC) for cutting some of the noise out of your mobile unit. These regularly sell for \$3.50, but Electra has a special for S9 readers—only \$1.95. Compare this price!

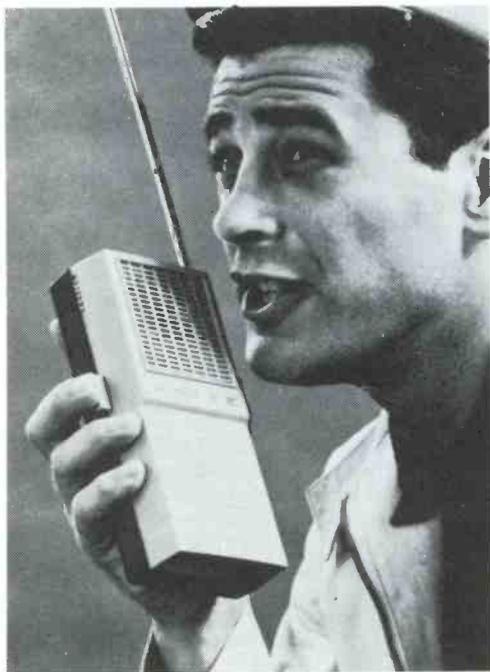
A new converter/charger for battery operated radios is being offered by Bethpage Instrument Corp., East Bethpage Rd., Plainview, L. I., N. Y. The device recharges common carbon-zinc, alkaline and mercury batteries and will also permit you to operate

HAS POWER, WILL TRAVEL

NEW CADRE C-75 2-WAY CB RADIO

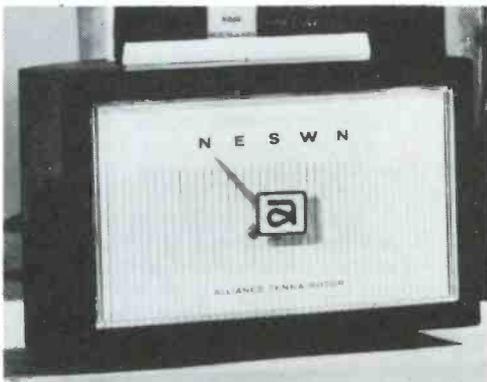
For business use, the all-transistor Model C-75 packs the power (1.5 watts) and has the portable convenience for operation anywhere. • Delivers clear, reliable communications up to 5 miles or more. • Sensitive receiver brings in signals in poor reception areas. • 2 crystal-controlled channels for perfect contact. • Completely portable (less than 2 lbs.) offers many hours of operation from penlite cells (8 hour nickel-cadmium rechargeable battery supply also available).

NEW CADRE C-60—powerful, hand-held full fledged 100 milliwatt 2-way radio with many of the features found in the C-75. For business use, it delivers clear reliable communications up to 3 miles. 2 crystal-controlled channels • Sensitive superhet receiver • powerful transmitter (70 MW output to antenna) many hours of operation from standard penlite cells or rechargeable nickel-cadmium batteries • no license needed. See Cadre CB 2-way radios at your distributor.



your rig directly from the converter itself. The unit comes in four versions—outputs of $\frac{1}{4}$, 1, 3, and 6 watts. They're low priced. Write to Bethpage Instrument Corp. for more details. Tell them that S9 sent you.

New CB rig this month from Webster Manufacturing, 317 Roebling Rd., South San Francisco, Calif., it's the Band Spanner 550, and 11 channel rig which incorporates 14 transistors and 5 diodes. About the size of a dictionary, it incorporates a special signal booster circuit to provide 100% modulation. Accessories include a tone signaling unit and the 115 VAC power supply. Suggested price of the 550 is \$179.50. Jim Adams at Webster will be happy to oblige with additional data.



A new antenna rotor has arrived upon the scene from Alliance Manufacturing Co., Alliance, Ohio. This new unit is dubbed the Model T-45 rotates your beam a full 360 degrees with no more than finger pressure on the touch control bar. Retail price is \$39.95.

If your CB club goes in for public service work you'll be interested in a complete mobile sound system from Perma-Power, 5740

 **CADRE INDUSTRIES CORP.**
COMMERCIAL PRODUCT DIVISION, ENDICOTT, NEW YORK



North Tripp Ave., Chicago, Ill. 60646. The 32-watt, all transistor, system plugs into the cigarette lighter of your 12-volt car. Inputs are provided for both microphones and radio/phonographs, and outputs for 8 and 16 ohms. Two speakers and mounting bracket are supplied, as well as a noise cancelling mike. Price of the complete sys-



tem, ready to go, is \$169.95.

Viking Products, 196 South Main St., Orange, Mass., offers a neat looking personalized pen and pencil set with your name and call embossed thereon in gold. Price is \$4.50 postpaid. The pen alone is \$2.75, likewise the pencil. Don't forget to clearly print your callsign when ordering. They're impressive, we've seen them. Group rates for clubs are available.

C.B. Supplies, 121 North C St., Hamilton, Ohio, has a number of call pins, QSL cards, log books, QSL card holder packets, rubber stamps, etc., all specially designed for CB'ers. A QSL card will bring you complete details.

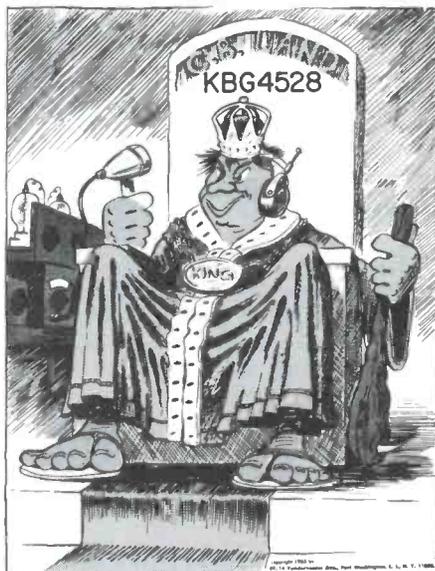
S9 Lab Reports

THE LAFAYETTE RADIO HA-115 COMPRESSION AMPLIFIER

There's no question in any CB'ers mind that a modulation booster such as a speech compressor is the easiest way to get the "effect" of an increase in power output—in short, extended coverage. The only problem with modulation

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If this doesn't shake up visitors to your CB shack, nothing will. It looks dandy in a frame and makes a sneaky gift for someone who has everything. It comes postpaid, and personalized with your call (or any other call or name you specify) for only 50¢ in coins (no stamps or checks please).

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boosters is they require critical adjustment; for many of them (most all) have enough preamplification to result in overmodulation, and this means a distorted "hashy" signal—and what good is distorted "talk power"?

But now, even if you don't have access to an oscilloscope or a modulation meter you can use a modulation booster and be *absolutely certain* you're getting optimum modulation.

The device which does the job is Lafayette Radio's HA-115, a combined compression amplifier and a *pre-calibrated* modulation meter.

The compression amplifier consists of a variable gain mike preamplifier whose gain is controlled by an audio sample from the modulator. Normally, when a transmitter hits 100% modulation on speech peaks the *average* speech power—the part the ear hears (the ear doesn't hear peaks)—runs somewhere down around 25% to 35%. What the HA-115 does is to sense the *peaks* at the modulator and then feed back a control voltage to the preamp which lowers the gain, thereby forcing the peaks down to approximately the average modulation level. This allows the overall audio level to be boosted, resulting in the average modulation approaching 100% rather than 35%. A side benefit is that once the HA-115 is adjusted a sudden increase in voice level will not cause overmodulation, to the compressor this is just another peak that is equalized to the average level.

In addition to effective compression the HA-115 has extra amplification so rigs normally shy on modulation can be brought to the 100% level.

The modulation meter, which is designed to work and be pre-calibrated with *all* AM CB transceivers—insures optimum compression adjustment to your transceiver and your voice.

Here's how the meter is used. After the HA-115 is connected to your transceiver you simply set the compression *on-off* switch *on*; then you speak in a normal voice while slowly rotating the front-panel mounted compression control until the meter indicates 100% on the loudest voice levels. That's all there is to it; no oscilloscopes or separate modulation meters needed.

(To check performance the compression *on-off* switch bypasses the compressor so you can see what the signal sounds like without compression.)

Continued on page 38

CUT ON DOTTED LINE — ADDITIONAL COPIES OF THIS CERTIFICATE ARE FREE AND MAY BE OBTAINED BY SENDING A SELF-ADDRESSED AND STAMPED ENVELOPE TO "ACHTUNG" IN CARE OF S9 MAGAZINE, ONE TO A CUSTOMER. PLEASE, SUBSCRIBERS CAN HAVE THEIR NAME PLACED ON THE CERTIFICATE IN GOTHIC LETTERING AT NO ADDITIONAL CHARGE IF THEY ENCLOSE A MAILING STRIP WITH THEIR NAME FROM A RECENT COPY OF S9 WITH THEIR REQUEST.

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Das CB-machinen is nicht fer gerfingerpoken und mittengraben. Ist easy schnappen der switchenwerk, blowenfusen und poppenwiren mit schpritzen und shootensparken. Ist nicht fur gewerken by das dummkopfen. Das machinen have ein license from der Uncle Sammy. Running das CB-machinen mittout permission ist makkin das "Show Cause" notice or money gepayen. Das rubbernecken sightseern keepen hands in das pockets. Relaxen und watch das blinkenlights, gelisten to das nutty sprechen, und to der bouncing meter pointer gewachen.



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WITH ADVANCED "RANGE-BOOST" CIRCUIT



Double Side Band Full Carrier

Model
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99-3001WX

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- ✓ Meets All FCC Requirements

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- 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.

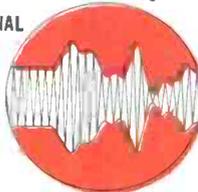
ADVANCED "RANGE-BOOST" CIRCUIT

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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!

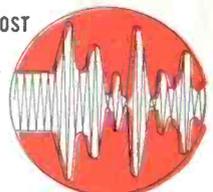
CONVENTIONAL

Average Percentage of Modulation Is Lower



WITH RANGE-BOOST

Average Percentage of Modulation is Higher—Sideband Power is Increased



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FEATURING AUTHENTIC MECHANICAL FILTER

Model HB-500



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- ✓ Low Battery Drain—Less Than 350 ma on Receive, 850 ma on Transmit!

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- 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

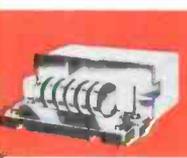
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EPITAXIAL SILICON, MESA TRANSISTORS used in Transmitter Oscillator, Driver and Final Stages.

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

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

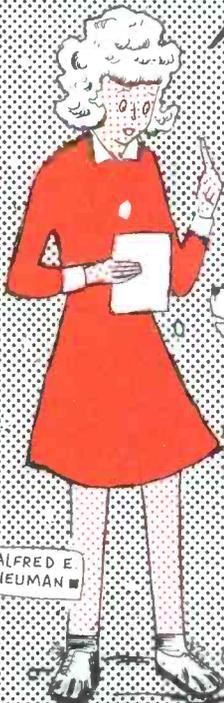
Matching solid state AC power supply for HB-500 for fixed station operation (at home, business, office). Transceiver rests on power supply to form attractive integrated unit. Size 1 1/2"x6 1/4"x3 1/2".
99-3028 Net 16.95



59 LAB REPORTS

Continued from page 32

HOLY SMOKES, CINDY,
DADDY WARLOCKS
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CB'ERS WHO DON'T
SUBSCRIBE TO S9!
WOW! GOLLY, WE'LL
HAVE TO DO SOME-
THING ABOUT THAT!



ZARF!

The electrical effect of the HA-115 is a 6 db compression (a doubling of the percent modulation); voice levels which formally gave 50% modulation now give a 100%; levels which formerly gave a pipsqueek 25% now give 50% etc. And shouts which drove into distorted over-modulation are now held to about 100%.

The HA-115 connects easily to a transceiver. The instructions are particularly good and even a rank beginner at soldering should have no trouble getting the device to work right off the bat. There is no worry about finding the right B+ point for lowest hum because the HA-115 contains its own filter—there is no hum.

The unit is supplied with a universal mounting bracket which permits attachment in virtually any position to anything—the transceiver, table mounting or under the dash.

Performance was very good on noise level tests. Under severe noise conditions where standard modulation was buried in hash the HA-115 gave just enough extra “push” to the modulation to make the signal readable. But perhaps the best feature was the modulation meter; it allowed us to set the compressed modulation to the limit without worrying about overmodulation. The signal at the receiver was clean, sharp and undistorted—the transceiver’s basic audio quality was unchanged, only the “talk power” was increased.

The HA-115 is definitely the cheapest, easiest way to get a boost in coverage. Sells for \$25.95 from Lafayette Radio, Dept. S9C-5, P.O. Box 10, Syosset, L. I., N. Y. 11791.

THE KNIGHT KN2565 TRANSCEIVER



The KN2565 is among the latest additions to the third generation of CB transceivers, and typical of these units it is supplied with complete 23 channel coverage via frequency synthesis.

The receiver is double conversion, with two stages of 475 kc/s IF amplification producing excellent selectivity—adjacent channel interfer-



ence is essentially non-existent. Overall sensitivity is very good, better than 1 microvolt for a 10 DB signal plus noise to noise ratio with a low apparent noise level. The squelch and noise limiter is about average in performance; the receiver audio quality is very good.

Delta tuning is provided to compensate for received signals which are off center channel (off frequency). When the delta tuning switch is rotated right or left the tuning is shifted ± 1.5 KC.—just enough to compensate for legal transmitter tolerances.

A rear panel jack is provided for connection of a remote P.A. speaker without the necessity for modifying existing circuitry. You just plug the remote speaker into the jack, flip a front panel switch from *receive* to P.A. and the transceiver is converted into a P.A. system. A headphone jack is also provided for private listening or for easy installation of a telephone handset.

The transmitter, which can match antenna impedances in the 30-75 ohm range, delivered 2.8 watts to a dummy load and to an antenna. A TVI filter is provided.

Modulation is crisp and clean, with overall mike gain tailored for close-talking 4 to 8 inches from the microphone.

The relative power output meter is somewhat unusual in that it switches automatically. When receiving, the meter indicates signal strength in S-units. When the PTT button is depressed the meter automatically switches to indicate relative RF power output. There is a mistake in the instruction manual concerning this meter. The manual recommends the use of an in-line RF output meter when tuning the transmitter. Actually, the built-in output meter can be used for tune-ups.

Another convenience is the "modulation indicator," a front panel lamp which flickers to indicate modulation. It also flickers when modulation is received; should the volume control be turned down the flickering lamp indicates a station is on the channel.

An unusual feature is a *standby switch* which keeps the rig ready for instant use, with reduced power drain during standby. The switch breaks the B+ at the rectifiers, only the tube filaments remain *on*. Therefore, as soon as the switch is activated the transceiver is ready for use.

The transistorized (solid state) power supply works off 115 VAC or 12 VDC (no 6 VDC) and both power cables are provided.

Instead of the usual gimbal bracket, the mobile mounting consists of two separate side brackets which we found slightly more convenient to use in a compact car.

If your looking for something in the "full coverage" line we certainly suggest you consider the KN2565. It's sold by Allied Radio for \$169.95.

\$99

Some Sound Advice About the Economics of Sound

Quality CB transceivers are a vital communications link for many businesses and professions, and a great source of convenience for many individuals. BUT, you don't have to throw money away to obtain quality.

Metrotek now offers two top quality transceivers; both realistically priced.



THE MUSTANG \$74⁹⁵

Six crystal-controlled transmit channels and tunable to receive all 23 channels. Operates on any six of the 23 available CB channels in the transmit mode. Plug-in crystals, mounted on chassis can be changed to give any desired frequency. High impedance ceramic microphone, in high impact strength case is standard equipment. Push-to-talk electronic switching on mike eliminates noisy clicking relays.



THE PACER \$99⁹⁵

Seven built-in crystal-controlled channels for transmit, plus a quick-change external socket for plugging in an additional crystal of any desired frequency. This permits user to transmit on all 23 CB channels. Dual power supply for base station or mobile operation. Receiver has 8 crystal-controlled channels, plus tunable to all 23 channels. Other features include automatic noise limiter, positive squelch control, illuminated "S" meter, spotting switch for locating on channel and mobile mounting bracket.



For more information write:

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without making your car look like
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hang it anywhere



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WASHINGTON OUTLOOK

There were more than FCC actions in the CB field during the past month—quite a few more than usual. Either the number has risen because there are more violations, or possibly it's simply a result of there now being more CB'ers than there have ever been in the past. Here's what happened to who:

Directed to show cause why their respective licenses should not be revoked:

KCG0006, Albert M. Watcher, Baltimore, Md.
7W3685, Donald C. Simmons, Tampa, Fla.
KFD5199, Sidney C. Karneke, Sacramento, Calif.

KDI0322, Harry J. Salee, d/b Salee Motors, Homestead, Fla.

KDB7250, Thomas W. Clements, East Point, Ga.

7Q1601, Earl William Evans, Tampa, Fla.
KKX4033, Garlin R. Napier, Bell Gardens, Calif.

KBA8374, John T. Megas, Winter Harbor, Me.
KKM7643, Johnson Duncan, Decatur, Ga.

KID4732, David Petrilli, Rochester, N. Y.
KDD8502, Bennie W. Hundley, Jr., Knoxville, Tenn.

KDE1105, Bobby C. Parrott, Soddy, Tenn.

The following stations had their licenses revoked by the FCC:

KB13922, Irving Machlowitz, Brooklyn, N. Y.
KKX2509, Robert M. Hogan, Anaheim, Calif.

KKA6690, Gerard V. Goodwin, Franklin, Me.
KDD2726, Thomas L. Wright, Charleston Heights, S. C.

KCG1159, William R. Becker, Burtonsville, Md.

KHH1930, Wesley L. Neville, Columbus, Ohio.

KEJ7522, R. H. Blaize, III, Palos Verdes Estates, Calif.

Show cause hearings against the following stations were dismissed:

4Q0163, Arthur H. Jones, Jr., Baltimore, Md.
6W1692, Jerry S. Autry, Atlanta, Ga. (because license expired).

KEJ6589, Bob Meyers, d/b as Bob's Auto Service, Long Beach, Calif. (licensee turned in the license for cancellation).

Hearings by FCC examiners were completed and the findings were turned over to the Commission on the following:

6Q2143, William H. Deal, Camden, S. C.
KBC3368, Eric H. Granholm, Wilton, Conn.
KLK3741, Alan Morton, Terre Haute, Ind.
KDJ0319, Robert C. Massey, Miami Springs, Fla.

The following stations were imposed with \$100 monetary forfeitures:

KEB3935, Ray Richardson, Mobile, Ala.
KEI1850, Harry H. Bennett, Annandale, Va.
KKR4753, Thomas H. Adair, Mobile, Ala.
KKI1862, Joseph Cooper, Jr., Springfield, Va.
10W4410, James C. Lyon, Dallas, Texas.
KDI0678, Don Luke, d/b as Luke's TV Service, Tampa, Fla.

KEB2563, Willie L. Westmoreland, Plateau, Ala.

KEB5193, Jack H. Deakle, Jackson, Miss.
KEB3381, Ralph Frank Bass, Jackson, Miss.
KEA1418, Claude Jackson Easley, Jackson, Miss.

KEB1667, John T. Hill, Jackson, Miss.
KKI0485, Ray D. Lambert, Falls Church, Va.
KEA1696, Robert C. Lose, Mobile, Ala.
KKP2775, Edward M. Wahrhaftig, North Miami, Fla.
KDI3528, Irby C. Tyner, Ft. Lauderdale, Fla.
KKP2719, Thomas L. Oden, Sr., Hialeah, Fla.
KEB1900, Multi-Copy Printing, Jackson, Miss.

KDI3060, Leslie S. Goldberg, N. Miami Beach, Fla.

The following stations were originally imposed with \$100 fines but were fortunate in having the FCC reduce the fines to \$25 each:

KFA0936, Walter H. Dupree, Los Angeles, Calif.
KKX3975, Hubert J. Palmer, d/b as Eagle Eye Armed Guard Service, Anaheim, Calif.
KFA4967, Ivan R. Stratton, Norwalk, Calif.

In other FCC actions, Bud Moates, KDE3799, of Aragon, Ga., had asked the FCC to cancel his \$300 forfeiture. The FCC cancelled the \$100 portion of the forfeiture which was for excessive frequency deviation, and reduced the remaining \$200 to \$50.

The order to show cause why the license of Paul Knobler, KDI0246, North Miami Beach, Fla., should not be revoked was set aside.

Continued on page 66

4 FOR FREE

THREE OLD RELIABLES AND A NEW ONE

Several years ago we devised some gifts for CB'ers; a "Wall Certificate" and an "FCC Warning Sticker." Both of these appeared in S9 and we eventually had to make them up in reprints to handle the requests which came in afterwards. Next we designed an "EMERGENCY" card for CB'ers to stick on their mobile unit's sun visor—this was also a popular design and created much comment. We didn't reprint that one and you had to buy a "back issue" from our Circulation Department if you didn't want to cut up your copy to use the card. This was a pain, because it was hardly worth buying a 50¢ magazine just to chop it up for one card. So here we go, we are again giving you our three "winners" PLUS one *all new* one, the "ACHTUNG" sign. Because we wanted to give you "ACHTUNG" in dazzling color, it is being run on page 33 (color isn't available to us after page 40).

WARNING!

This radio transmitter is licensed by the FEDERAL COMMUNICATIONS COMMISSION, Washington, D.C.

It is a federal offense for unauthorized persons to tamper with radio equipment licensed by an agency of the UNITED STATES GOVERNMENT.

MEDDLERS WILL BE PROSECUTED AS THE LAW PROVIDES.

courtesy of S9 magazine.

NOTICE

**TO POLICE & FIRE AUTHORITIES.
THIS VEHICLE IS EQUIPPED WITH
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EMERGENCY

**TWO-WAY RADIOTELEPHONE EQUIPMENT
LICENSED BY THE U.S. GOVERNMENT**

courtesy of S9 magazine.

Highway N. C. 10, just off N. C. 226 on Shelby-Marion Road, Polkville, North Carolina. Sponsoring units: Little Rotunda CB Club, Polkville Fire Dept. Upper Cleveland Rescue Squad. Contact: P.O. Box 74, Polkville, North Carolina.

The Town and Country CB Radio Club, Inc., will sponsor a 2 day coffee break and pancake supper on May 22nd and 23rd, at the Fairgrounds, Hemlock, New York. More info to follow.

Quincy Area CB Club will sponsor their 2nd Annual Jamboree, August 22nd at Eagles' Alps. More info later. PRESS TIME FLASH: The Peanut City CB Jamboree, Auction and Dance on March 27 and 28 at the Shrine Club Building in Suffolk, Va. Sponsored by Peanut City CB Club and Old Dominion Citizens Radio Club, the admission is only \$1 (kids under 12 free) and baby sitting facilities are available. Lots of big prizes to be given away and you can bring items for the auction. Dance is 9 P.M. Saturday. Auction is 10 A.M. to 4 P.M. Saturday, Jamboree is Noon to 6 P.M. on Sunday. Contact Jim Boyette, Route 2, Box 862, Suffolk, Va. Last year this shindig drew 3,000 people and about 100 prizes were given away.

To assist numerous CB visitors who will be coming to New Orleans for Mardi Gras Day, March 2nd, 1965, a monitoring station will be available for CB'ers during the Mardi Gras season. Look for the "Five Watt Wonders" on Channel 12.

Beginning this month, S9 will conduct an oldtimers section, by this we mean, age wise. Yes, we are looking for the oldest active CB'er in the country to be shown in this column in a forthcoming issue. Requirements—the older the better. Name, address, call and age. But there's one catch . . . we must have a recent picture, well enough to reproduce, along with a QSL card. The contest will run this month and next, so let's get going. Please address all mail to S9, Club Editor, Oldtimers Contest, 60 Division Ave., Garfield, New Jersey. All mail prior to April 30th will be judged. The prize . . . well that's a surprise . . . Remember, your age, picture, and your nickel for postage. All pictures and letters become the property of S9. None will be acknowledged or returned. Winner will be announced here in S9.

NORTHERN

Newly elected officers of the Metropolitan Radio Communications Club include, President, J. Krejc, KB18077; Vice President, Lou Fiola, KB17928; Secretary, Mike Borisuk, 2A5880; Treasurer, Elmer Molnar, 2W4250. Meetings are held on second Tuesday of each month at the DAV Hall, Crooks Ave. and Hazel Road, Clifton, New Jersey. Everyone's invited to visit.

1965 officers of the Lakeland Waters, Inc., Radio Club are: President, Carl Williams, 20Q4283; Vice President, Lloyd Hawley, KLP9340; Secretary, Theo. DiNardo, KIC2123; Treasurer, James Hinman, KID3297. Present membership of the club is at 110 and growing every month. Of the total membership, there are 67 mobile units to meet any emergency in the area. The club is also working on an emergency van which should be rolling this summer. News comes from Steve Hara-kal, KID8688.

Elected officers of the Glens Falls Area CB'ers include: President, Herbert Colvin, KIC2999; Vice President, Harley Hermance, KJI2772; Secretary, Ruth Colvin, KIC2999; Treasurer, KIC4850.

Elected officers for 1965 of the Delaware Valley CB Ass'n are President, Bob Bryant, 3Q0804; 1st Vice President, Jack Weidow, KCC0172; 2nd Vice President, Dave Miller, 3Q2257; 3rd Vice President, Ray Jensen, 3W5325; Secretary, Alex Grubb, 3Q3040; Treasurer, Julia Martinenza, 3Q0886; Rec. Secretary, Addie Dean, 3W3389; Act. Rec. Secretary, Grace Palmer, KCD5945. The club is planning a jamboree this year. (See Coming Events calendar).

The Annual Elections of the Stonington Emergency Communications Unit were held on December 23, 1964, at the club rooms on River Road, Mystic, Connecticut. Elected for a third term as Captain was George Francis, KBA6840, and the following officers were elected to serve with him: First Lieutenant, Charles Cooper, KBA0918; Second Lieutenant, George A. Smith, 1W-7718; Sergeant, Bud Startz, KBC7411; Secretary, William F. Mitchell, KBC4201; Public Relations, Charles W. Richmond, KKA0197; Program Director, Charles T. Halligan, KKA4514, Unit 2; Steward, Dave Larkin, KBC6617.

The Club's Annual Banquet was held on January 6, at the Mayflower Restaurant, Mystic, Conn.



Newly elected officers of the Queen City 5 watters Radio Club are: left to right, Assistant Director, Alan Roby, KCG0475; Secretary-Treasurer, Merry Albright, KCG1591; Director, Richard W. Long, KCF0986.

During the past year, the club has assisted in furnishing communications for traffic control for the Fourth of July parade in the Town of Groton, Conn.; assisted in locating missing children; furnishing communications at several large forest fires; and has also furnished valuable assistance to several boats in distress by monitoring Ch. 13 from 6:00 A.M. Friday to 12:00 P.M. Sunday, relaying several messages to the Coast Guard and to several marinas upon receiving distress signals from the boats.

The services of the club are available to the various Fire Departments and Police Departments in the area upon request to the Captain.

Regular club meetings are held the second and fourth Wednesdays of each month at the club rooms on River Road, Mystic, Conn. The club monitors Channel 11 and welcomes all CB'ers to visit their meetings and get acquainted.

Att'n: New England CB'ers: Here are just a few questions that you may have been asking yourself lately!

What are these kookie-calls that are not familiar to us? What do they mean? Why are they being used, instead of every day English? Is it so we cannot understand them? Who are they? What are their operations, and how do they operate?

If a CB'er is in or around the Boston area of Massachusetts, he is more likely to hear this on channels 7 and 8, then any other part of New England. Why? Because the "Eastern States Beach Patrol," KUA0003; "Operations Control" known to many of us as "OP-CON" is based at Braintree, Massachusetts.

What are their duties you might ask? Well they mainly consist of "Life-saving operations" and secondary assisting when and where-ever possible. What does this mean? The simple fact of the saving of life and property, and secondary assisting such as motorists and local law and State law enforcement agency's through the New England area.

Some of the units familiar to us here in Massachusetts are: not only "OPCON" but Wallace, Eggnog, Shawnee, Bandog, Fleet, Fargo, Pinetree, and Maple just to name a few of the 300 units. These calls are all units of "The Eastern States Beach Patrol." Why don't they use unit so and so, etc.? Because these names are just designators; designating some particular unit. Making it easier to understand who it is calling. The codes and signals you hear mean different things such as notify a hospital, Doctor, Police or Fire, tow truck or wrecker. The reason these codes and signals are used is to cut the time used on the air, so as to leave it open for someone else whom may need or have use for it. I might add this organization does more monitoring then in actual usage. They monitor channel 7 twenty-four hours per day, 365 days per year. I might

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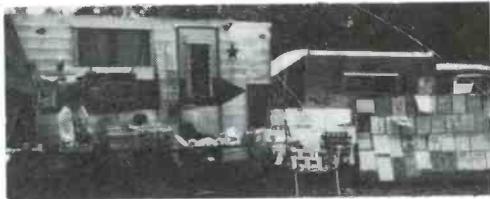
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FCC EMERGENCY NOTIFICATION CARDS ONLY 2¢ EACH!

Section 95.85(1) of the CB rules states that if you use your CB gear for any emergency, even for calling for help for a stranded motorist, you must notify (in writing) both the FCC in Washington and your local FCC office. You must do this for each time you use your CB rig for emergencies. These FCC Notification cards were specifically designed to cut to a minimum the paperwork necessary for well meaning clubs and individuals—they contain all of the necessary wording (and are even addressed)—all you do is fill in a few blanks, stamp, and drop into the nearest mailbox. They come with a list of addresses of local FCC offices. Available postpaid in packages of 50 for only \$1. Thousands of these cards are already in circulation. Order now from:

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\$9 Magazine
14 Vanderventer Avenue
Port Washington, N. Y. 11050**



Pictured above is Roy Shetlers', 20W7473, Enon Valley, Penna display at the many jamborees he attended. Roy has displayed as far as Canada in 1964. As he said, More in 1965.

add that they also monitor 2182kc of the marine band having the call letters of W08757 and their own assigned frequency KCH887, plus local law Enforcement agency's. The main reason for doing this goes back to their being in operations; Lifesaving.

The Citizens Band Radio Call Letters of "The Eastern States Beach Patrol are of a special authorization from the FCC of KUA0003.

So when you are driving those lonely roads to and from work, please don't feel alone as there are men and women traveling these highways that will stop and help you as a Public service which the Patrol offer. Also this applies on the inland waters of New England. I might add this is done on a strictly voluntarily basis.

Anyone wishing additional information may get some by writing "The Eastern States Beach Patrol" care of the Secretary, Post Office Box 156, Rockland, Massachusetts.

Presently in the process of incorporating is the Wawenock Trail Blazers CB Radio Club of Maine. The newly reporting unit will become associated with REACT in a short period also. More news of the club will be coming. Present plans are that the club will monitor channel 9, along with the 18,000 members and 600 REACT Teams throughout the country. Good luck to the unit.

The Pine Tree Five Watters CB Radio Club of the Bangor, Brewer area in Maine recently placed in office for 1965 the following: President, Edward Millet, Jr., KBC0238, S9, A.P.R.E.; Vice President, Lloyd Mann, KKA1222; Treasurer, Frank Andrews; 1Q7202; Secretary, Mrs. Raymond Dutch, KBC6234. The club has moved its meeting place to the Ctenlyville Fire Station near the CD Radio and the Buffalo herd. The REACT Team will be reactivated during this year, probably January, due to the loss of a few REACTIONARIES, James Boynton, KBA2682, was appointed club Public Relations Director and member-at-large, other members at large are Gilbert Colson, KBC0830 and Donald Goss, KBD3456.

1965 officers of the Technical Audio Communications are: President, Joe Testa; Vice President, Fred Foshey; Secretary, Don Ovellette; Treasurer, Bill Gallonio. TAC, which was formed September, 1964, is still growing and hopes in time to become the largest social type CB Club in their area.

Recently organized is the S9 Citizens Band Radio Club of Wakefield, Mass. President, David Yetman, KKB-1221; Vice President, Buddy Smith, KKB2859; Treasurer, Harvey Dellinger, KBE0345; Secretary, Harry Cabome, KKA7989-U1. Membership is presently 13. Channel 9 is monitored every night while mobile units patrol Routes 128, 28, 93 and 1. Club members are required to know first aid, and other emergency types to perform when they are needed. The club meets every Thursday from 7-9 P.M. The club probably will sponsor a jamboree this spring in the North Shore of Boston area.

New officers were installed at the Jan. 3rd meeting of the C-Banders Radio Club Inc. of Western Pennsylvania. President, Chips Wallett, KID9818; Vice President, Ted Wirth, KLP6800; Secretary, Martha Krusien-ski, KID6874; Corresponding Secretary, Jenny Gallagher, KIC5890; Treasurer, Don Hunter, KID5172. Meetings for the club are held the first Sunday of the month at the American Legion Post Home in White Oak, McKeesport. Committees were named for activities, and plans for a Jamboree are being made. Dates and places will be announced later. Mailing address for the club is C-Banders Radio Club Inc., P.O. Box 173, Glassport, Pa.

CENTRAL

The Tipton County CB Radio Club recently elected President, Franklin Wray; Vice President, Cecil Scott; Secretary-Treasurer, Anna Mae Porter. Past President of the group is Willard White.

CB'ers from Hiawatha Valley met recently and formed a club which includes 12 members. Although presently small, the club has great plans for the future. Winton Johnson, KLF1848 was appointed as Chairman and Bob Dissell, KLF1957-U2 as Secretary. CB'ers interested in joining this up-coming club should contact: Ralph Sorenson, P.O. Box 131, Bay City, Wisconsin.

The Q-5 Radio Club, Inc., had their election at the December 8th, 1964 meeting. New officers for the year are: Sig Hufenbach, KHI3300, President; Robert Gehring, KHJ1535, Vice President; Ralph Asel, KHJ1446, Recording Secretary; Bob Sharkey, KHJ2859, Treasurer; and Don Bickelmeyer, KLN8303, Corresponding Secretary. Congratulations to all new officers for 1965. Present membership stands at 55. Official mailing address for the club is: 906 Wagar Road, Rocky River, Ohio 44116.

The Q-5 Radio Club held their second annual banquet at the Brown Derby Restaurant in Brecksville, Ohio, on Saturday night, December 12th, 1964. At this time, trophies and "Certificates of Merit" were awarded to those who donated their time and effort to the club during the entire year. Chicken and steak was on the menu and the members, wives, as well as guests had an enjoyable evening at the banquet. News of the group comes from: Jon G. Batley, KHII466, S9, APRE for Cleveland.

The Twin Cities CB Radio Club recently held their Christmas party at the CIO Local 2140 Hall in St. Joseph. Chairman of the party was Mrs. Donna Felty, with a long list of helpers. Good luck to the club in their recent party. This writer received a poem from Mrs. Stella Hardin written by Mrs. Marge Swanson, KH10001, but too late for publication. Thanks again girls.

From S9 A.P.R.E. Jack Doggett, KLH4994, comes word of "THE TRAVELER." Don and Vickie Taylor, KLK1548. Their home base is East St. Louis, Illinois, to be exact—13 H Gomper Home—East St. Louis, Illinois. They are entertainers and very friendly people and enjoy their CB 23 channel ECI Courier. They entertain all over the country—coast to coast—and have entertained in our neighboring country of Canada. This young couple loves to swap QSL cards. So far in their travels, they have collected around 2,500 cards. They especially would like cards from Alaska and Wyoming (as would I). These states seem to be hard to get QSL's from. How about it Alaska and Wyoming? Don and Vickie QSL 100%.

Vickie is a very beautiful and talented entertainer and Don drives out of his way to meet and visit with CB'ers. They also have a cute black French Poodle. On Sunday, December 20, 1964, they drove 250 miles just to see yours truly and family at their home in Des Moines, Iowa. We had a very enjoyable day. "THE TRAVELER." KLK1548 met other CB'ers on this day and enjoyed visiting and watching colored television at the home of KLH8415, Bob and Alice Morey of Route 4, Indianola, Iowa.

If anyone hears KLK1548, "THE TRAVELER"—Illinois mobile—I'm sure he will welcome and answer your call. You'll have a nice surprise when you meet them. Give 'em a call and mention me—KLH4994. Thanks.

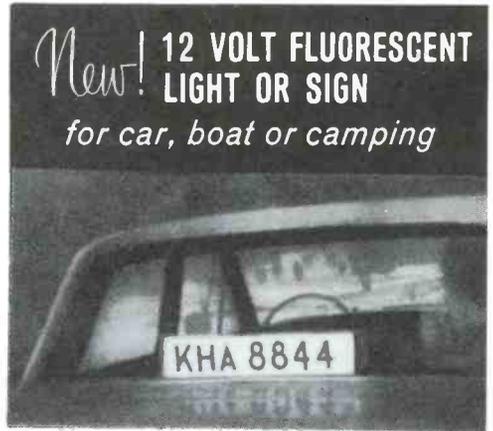
Catch their show when it's in or near your town, and enjoy yourselves!

Correction—As shown in the December issue, call letters of Mrs. Peggy Helfin, were KLK6287, which should read as KLJ6287. The KLK6287 are the proud call letters of Mr. Ronald McMullin. Sorry Folks.

On November 18, 1964, Citizens' Band radio operators from the states of Minnesota and Wisconsin joined together to form the "Twin States Radio Relay League."

The purposes of the League are to (1) Promote the interest of Citizens' Radio Service operation, (2) This is to be accomplished by close adherence of the FCC Rules and Regulations Part #95 and its amendments, (3) To provide a closer relationship between the owners of Citizens' Band Radio equipment as an organized group and not as a group of individuals with no aim or goal in mind, and (4) To assist our law enforcement agencies if they should ask for our help in any way.

At this meeting the following officers were elected;



Transistorized for low battery drain. (.6 Amps at 12 V.) Can be left on all night and car will start. Use as a sign or for radio station or company identification. (Lettering Kit included.) Use as a light for camping and other purposes. Heavy duty aluminum case with 4"x4"x24" lens. Fused for safety. Easily installed.

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NOW! Roam Entire CB Range with *Master Mobile* Range BUSTER Antenna



Under field test conditions this antenna outperformed any other CB unit and maintained a 1:1 standing. Wave Ratio over entire CB frequency. It's stainless steel with layover extension and weather-sealed center loaded coil plus flexible 17-7 PH whip. Can be mounted anywhere on car for dependable performance. Removable whip steel. Can be cut to frequency. Fits any 3/8-24 thread mount. Overall length is 6'3". 11 Meters, 27 Megacycles. **MODEL CB-35**

19.95
NET

UNIQUE NEW LAY-OVER DESIGN

Quick, simple screw action of coupling permits "lay-down" to avoid low overhanging obstacles or garage doors. You'll appreciate the ease.



Model CB-29 — 15.95 Net

For deck or finder mounting, this CB antenna includes 86" stainless steel whip plus 36" lay-down extension, permitting adjustment from 104" to 119". 11 Meters, 27 Megacycles.

Model CB-32 — 16.95 Net

This 83" antenna has stainless steel lay-down extension with 47" top loaded fiberglass whip for radiation efficiency and increased range. It has simple peaking adjustment and more than 4 db signal to noise improvement. Matches 52 ohm coax cable. 11 Meters, 27 Megacycles.

Model CB-33 — 16.95 Net

Same as CB-32 except whip is only 18" and overall length only 57". 11 Meters, 27 Megacycles.

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Bob Langermann, KLF0755, President; Phil Nelson, 16Q1077, Vice President; Debra Nessel, KGF1361, Recording Secretary; Barb Langermann, KLF0755, Corresponding Secretary; and Calvin Bozeman, KLF2750, Treasurer. The Club's address is Twin States Radio Relay League, St. Croix Falls, Wisconsin 54024.

Citizens Band operations, if local and area license holders have anything to say about it, will play an important role in making life easier and more interesting for a Port Clinton, Ohio, young man.

He's Tom Branum, 22, son of Mr. and Mrs. Carl Branum, who has been confined to his home at 322 West Sixth Street in Port Clinton, Ohio, for several years. Tom is almost completely paralyzed as the result of a diving accident.

Friends have let him use a CB set for listening purposes. Because he does not have a license as yet.

But—friends working in his behalf have installed "cranks" instead of dials and switches. A desk mike is being used.

Now they are asking the cooperation of area CB operators. If you feel this to be a worthy cause, send your donations to the following person at this address: William Twynham, 226 West Fifth Street, in Port Clinton, Ohio. His call is: KHJ6709.

With donations from CB'ers, they hope to receive enough to purchase a new set, an antenna and a desk mike. An application for a license will be filled out and sent to the FCC.

The used equipment was installed so that Tom's wheelchair will be able to reach it at right-arm length. He has enough use of that arm to turn the "cranks" and press the desk mike button.

According to those who are close to the family, Tom has been allowed to have his set near his chair for monitoring purposes and listens in daily. Already it's served as a great time-passer for him.

In his first attempt to transmit, Tom proved to have a clear and well-modulated voice. At first he had difficulty in operating the mike button, but this was remedied by installing a piece of plywood which later was found to need only a little arm pressure.

Several Port Clinton operators contacted Tom, giving him encouragement in using the unit. He hardly needed it, for he had almost mastered the manner in which calls are handled.

Tom also likes to collect QSL cards too. Hope you will drop him a few of your cards to his home address above.

By the time this goes to print, Tom should have his new set, his antenna, and his own call numbers too, thanks to all of you CB'ers.

Elected to lead the Citizens Radiophone Ass'n of Detroit, Michigan for 1965 are: President, Ronald Lemanowski, KH19385; Vice President, James Leary, KHJ0805; Treasurer, William Conn, KLM8429; Exec. Secretary, Donald C. Ludwig; Sgt. at Arms; Larry Belloli, KLM8867. President, Ron is a 2nd class ticket holder which will be a vast asset to the CRA member. At his first board meeting many constructive programs were set among them is the creation of a set of instructional slides on the proper conduct of CB'ing and air ethics. The slides will be explained with a synchronized tape with dubbed voices both transmit and receive. More will be explained in the Clubs paper, the **GRIDLEAK**.

1965 Officers of the Paper City CB Radio Club include: President, Lucky Montague, KLN2891; Vice President, M. J. Capman, KHJ3354; Secretary, Marilyn Montague, KLN2891-U2; Treasurer, Bill Stewart, KHJ-8939. The club meets the 3rd Thursday of every month at Burdick and Crosstown Pkwy. St. branch of the American National Bank and Trust Co., Kalamazoo, Michigan. CB'ers are invited with meetings at 8:00 p.m. sharp!

Three members of the United Citizens Band Organization of Fort Atkinson, Wisconsin assisted in the rescue of two men from the frigid waters of Lake Koshkonong, in Jefferson County, Wisconsin, recently. The two men were rescued while ice fishing when their car went into a crack in the ice. The car did not go all the way thru, but hung up in about 3 1/2 feet of water. The men could not get from the car, due to the formation of the ice around the car. The car was equipped with CB and a call for help was sent out, answered by Maynard De Nolf, member of the U.C.B.O. Also assisting were Pat McGinty and Glenn Miller, along with the Jefferson County Sheriff's Office.

1964 inventory of the 11 Meter Communication Club of Fort Wayne, Indiana includes, helping local Sheriffs



Mr. Ivan Loucks, of the Federal Communications Commission, seated with other members of MCEU, Inc., at the Buffet Supper which was served as part of the MCEU, Inc. National Convention and Jamboree in July, 1964. This Jamboree was held at Kalamazoo, Michigan under the direction of Governor of Michigan Ken L. Kirk and the Kalamazoo Chapter. Represented at the Jamboree and Convention were Chapters from all over the United States. One of the newest Chapters has just been formed in Alaska. Shown in the picture are (left to right): Ginny Vernon, KDB4576; Mary R. Deveau, 1Q-0086 (back to camera); Governor of Connecticut George J. Deveau, 1W8215 (with beard he grew especially for the occasion); May Salisbury of Jefferson County Chapter and National President Ralph Tanner, (back to camera). During the Convention and Jamboree, many QSL's were swapped, and there were distributors of all kinds of radios and other equipment present. Numerous items were discussed and voted on during the National Board Meeting, which is part of the Convention. A good time was had by all, in spite of the terrible heatwave and crowded conditions. This year's Jamboree and Convention will be in the mid-west, probably sometime in the month of July.

Dept., traffic protection, traffic guards, transporting people to and from local hospitals, highway service, helping a family when their home was burned and to collect clothes for them, purchasing Xmas gifts for needy families and a distribution of CB equipment when needed. A most important charity project that would outshine all others—buying paint and trimming a retired couples home, who through his good-will, helped many CB'ers with his radio through personal communications. The person is question, yes, Elmer (Pop) Cornewell, 18B0551, of channel 9. Hats off to the club. The REACT members is as follows: Harold H. Peck, 18A4254; Captain, Jack Forbing, KHC2683; Information Dispatcher, Marion Martin, KHA5867, among others.

The Quincy Area CB Club, now in its 5th year, with a membership of 65 strong. President, R. J. Wierprecht, KHB2069; Vice President, Marvin Mahoney, KHD7726; Secretary-Treasurer, Wilbur Simonson, 18Q5831. The club is associated with REACT and monitors channel 9, is active in all civic affairs, emergencies, etc., and has 4 mobile emergency teams which can be activated on short notice. Each team consists of 5 mobiles, most of whom are trained in First Aid. Club paper is the GEM CITY CB NEWS.

Recently, the Twin States Radio League raffled off a 16" table model TV set, which the winning ticket was drawn by the Mayor of North Branch, Minnesota. Most of the proceeds of this event were divided between a Minnesota State Hospital for Children and a Wisconsin State Hospital. The club in doing, so hoped to make this Christmas Season a very merry one for all. In the future, the Twin States Radio League hopes that it can have many of these and other projects to help as many people as they possibly can.

The BIG Switch Is To 59

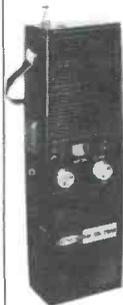
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CB IN ACTION

By Les Hench, KHA3272
Sales Manager
Pearce-Simpson, Inc.

CB IN ACTION is a community project. In keeping with this theme we are giving Pearce-Simpson personnel an opportunity to express their views on CB.

This month Fred Schloss, our Order Department Manager, has written about the CB Jamboree, its purpose and meaning. This is our way to salute the tireless, hardworking people who spend hours of their own time putting together this important function.

Support your local Jamboree, its vital to all of us.

"THE CB JAMBOREE"

A hundred years ago our forefathers used to hold town meetings to discuss mutual problems and future plans. Today, within our CB community we also hold town meetings—in the form of CB Jamborees.

What makes up a CB Jamboree and what are its purposes? First and foremost, the CB Jamboree serves all CB'ers in stimulating an exchange of ideas and thoughts which are so important to progress. Secondly, it gives CB'ers a chance to meet one another in person and fosters friendship and cooperation. Thirdly, the personal contact and interchange of information creates a strong bond, which encourages general progress and prosperity within the citizens band community and industry.

There are many additional advantages, too numerous to list here. Some of the more important benefits are: Previewing new equipment; learning more about CB products and their proper installation; aiding in the establishment of CB clubs and public service organizations (mobile radio patrols, etc.).

From the CB equipment manufacturers' point of view, a CB Jamboree is very vital because it provides a direct link between the manufacturer and the CB'er; thus furnishing engineering and design with the needs and desires of the consumer. Many of us are forever complaining about how the FCC regulations are making it difficult to operate. Some of these complaints are valid and others are not. However, the nationwide program of CB Jamborees creates a united front, and presents the thoughts of the individual in block form, therefore bearing more weight.

We would like to use this opportunity to thank those staunch and gallant members of the CB community who are giving so generously of their time and effort in making the CB Jamboree possible. We look forward to meeting you at the many forthcoming Jamborees.

WIN A COMPANION CB

Remember you can win a "Companion II" CB transceiver for your "CB In Action" story. Send in your story—any experience in which you or your club helped your community with CB. Write to Les Hench, Sales Manager, Pearce Simpson, Inc., 2295 N.W. 14 Street, Miami, Florida 33125.

SOUTHERN

Elected officers for 1965 of the CENLA CB Club include: President, Huey Mathews, KKR1812; Vice President, Thomas LeJeune, KKR1811; Secretary, Ruth Voorhies, KEB3764; Treasurer, John David, KKR2161. The club's calling and monitoring channel is 11, but also will include channel 9. General meetings are held the second Wednesday of every month at the Alexandria Court Room, 7:30 p.m. Info concerning the group contact: Thomas LeJeune, 3216 Laurel St., Alexandria, Louisiana. Editor of the fine paper is Charles Pospisil, KEA2231. The club is registered with the Alexandria Chamber of Commerce and is affiliated with the Citizens Band Highway Safety Patrol, the Louisiana CD, under the direction of Major General, E. W. Wise.

The Greater Baton Rouge Citizens' Communication Association elected as their Officers for 1965: President, Wm. H. Johnson, KEB1338; Vice President, Prentice Massey, KKR3253; Secretary, Joe Watson, KKR2871; and Treasurer, Fred Dawson, KEA1372.

GBRCCA is now in the second year. This part year has seen many activities. The picnic at Beechwood Park, early in the year, had an attendance of well over a hundred people some from as far away as North Louisiana and Texas. 125 people attended the picnic at Audubon Memorial Park. Ten attendance prizes were given away. Bingo was one of the highlights of the second picnic at Beechwood Park later in the year. A communication coordination exercise had 16 mobiles covering key traffic points making the traffic tally and car lights malfunctions count. Hurricane Hilda had GBRCCA jumping to cover communication needs for the Red Cross shelters and Civil Defense.

GBRCC Board of Directors are: Chairman, Prentice Massey; Recorder, John Buie, KEB5383; Wm. H. Johnson, Joe Watson, Fred Dawson, Joe Aldridge, KEB1938, Carlo Maddie, KEB0170, Billie Barnett, KEA2263, Jack Ray, KEB3629, Lewis Bagot, KEB0689, Gano Bergeron, KKR3283, and Wm. E. Boucher, KKR0281.

GBRCCA meetings are held on the second Monday of each month. The Board of Directors meet on the fourth Monday of each month. These meetings are held at the Chamber of Commerce Building at 7:30 p.m. All CB'ers are invited to attend.

PACIFIC

The Snake River Valley CB Club of south-western Idaho recently elected the following officers: President, Ted Hanberg, KLC0768; Vice President, Tim Huston, KLC0664; Treasurer, Lavonna Snook, KFG1902; Secretary, Norma Peterson, KLC0271. Meetings are held the 3rd Saturday of the month with several coffee breaks monthly. CB'ers passing through the Nampa-Caldwell area should call on channel 9 or 11. Jim Roberts said: The coffee pot is always on, as well as a good sized stack of wall paper.

New officers for the Spokane (Washington) CB 7-11 Radio Club for 1965 are President, Don McGowan, 13W0336; Vice President, Larry Probes, KLD0752; Secretary, Ken Wolkey, KLD1107; Treasurer, Jerry Woodland, KF12384; Board of Directors are Bill Eadie, KFJ2228, Harry Walters, KFJ1971, and Randy Green, KFJ0375. Special congratulations and many thanks for a job well done from all members of the CB 7-11 Club go to the 1964 outgoing President, Guy Phillips, KFJ0655, for his many devoted hours to CB.

CB 7-11 "TOO" Auxiliary consisting of YL's and XYL's of CB 7-11 donated food and clothing to help a needy family in the Spokane area was their December project. Officers of the Auxiliary, whose purpose is to promote a closer relationship of CB to all interested women, are President, Lucy Phillips, KGA0130; First Vice President, Donna Chafee, KLD1434; Second Vice President, Kay Procell, KLD0752; Secretary, Jo Stafford, 14Q0979; and Treasurer, Leona Anderson, KLD-0378.

On open letter from President, Lester L. Warringer, CB Minutemen of Washington, Inc. All mail should be addressed through the S9, Club Editor, John F. Krejc.

The CB MINUTEMEN OF WASHINGTON, INC., as the oldest and largest CB oriented organization in the Pacific Northwest would like to enlist your help.

This organization since its inception in 1961 has attempted to maintain an emergency channel capability for use as aid to travelers, search and rescue and as a calling channel. We have had amazing coopera-

tion by the individual CB'ers when they realize what this channel can and does mean.

About this time of year though we run into trouble. The manufacturers of the 100 milliwatt units which are widely used by children and other people who have no further interest in CB other than the capability of talking "on the air" and making like noise makers on this emergency channel.

Channel 9 is known throughout the width and breadth of this nation as a channel where assistance can be obtained. Even now the FCC has mentioned that the CB'ers themselves must not be such bad people or organizers when they can—on their own accord—set aside a working frequency for emergency or aid communications.

It is our hope that we can enlist your aid in getting our words to the manufacturers and distributors of this 100 milliwatt walkie talkie equipment in the hopes that they would see the wisdom in eliminating the frequency of 27.065 mcs. from their units. It is very disturbing to a 24-hour monitor station to be awakened from sleep by children using this equipment.

CB radio has proven itself in the Pacific Northwest and we who use it as it was intended to be used are very much interested in keeping the service. Education of the users is the only way to accomplish this and it is our hope that your fine publication will continue to use your editorial facilities to attain this end.

WESTERN

Present membership of REACT of Ridgecrest include: G. E. Whiteside, KEJ6964, P. C. Whiteside, KKK1588, T. L. Wright, KFA2936, H. E. Wright, KKK1888, J. E. Malone, KFA2936, J. E. Ferguson, KEJ4111, B. Ferguson, KFA3161, C. J. Ulrich, KKK-2674, J. W. Raffel, KKK3382 and W. L. Raffel, KEJ-3475.

The Emergency Communication Organization of Texarkana, Texas is under the new following direction. Director, James Rice, KKV5832; Assistant Director, Harold Sawyer, KEG3057, plus a completely new Board of Directors. Present membership of the club is 45.

One of the newer Clubs in California is The Desert CB'ers, located in the Coachella Valley (Indo area).



Although only about 18 members at present, they are a very active group. Monitoring Channel 11, they are always present to aid tourists with weather and travel information. Present officers of this fine club are: Bill Metcalf, 11Q1842, Pres.; Larry Blumenthal, KFA2390, V.-Pres.; Lotta Arnold, 11Q4912, Treas. and charming Mary Wiltshire, KKK3069 is the Secretary. Ray Quick, KEJ0638 is the able chairman in charge of outings. Good Luck to the Desert CB'ers during the new year.

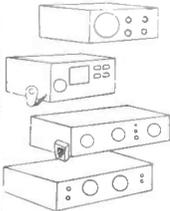
The Hi-Desert CB Radio Club, still continues to grow. Their membership count in December was over 75 active members. Being a REACT unit they have followed the national setup, and now Monitor Channel 9—24 hours a day. Channel 11 being the popular standby channel in this desert area, many of the REACT units, when not on active watch, still monitor Channel 11; so motorists traveling the 29 Palms highway can always reach assistance on either channel. Few people outside of these desert areas, realize how great a part CB radio plays in the every day lives of these desert communities. Vast areas have no other means of communications. Water is ordered, Doctors, Law Enforcement Agencies, Fire Protection, food, fuel, auto towing and repairs and many other services are all within reach by CB radio. If you can't reach them direct, the Hi-Desert REACT units can and will make the



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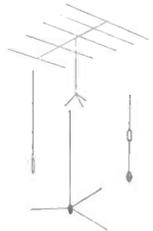


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necessary contact. The desert people are truly thankful for this dedicated group of CB'ers. Their 24-hour coverage, provides comfort and peace of mind for hundreds of people that live in the California desert country.

Recently organized in the San Gabriel area is the San Gabriel Valley Eagles led by President, J. D. Lucky, 11Q3933; 1st Vice President, Ken Reeves, KKK7669; 2nd Vice President, Harvey Bryan, KKK1295; Treasurer, Edward Lawson, KKK1759. Meetings are held at the T and J Restaurant each month. Interested CB'ers should contact: Bill Phillips, 7729 E. Young St., So. San Gabriel, California.

The first annual Christmas party of The Rose City Five-Watters CB Radio Club of Tyler, Texas was held Tuesday, December 22, 1964.

Members of the club drew names earlier and bought gifts for one another not costing more than \$1.00. The two most unusual gifts were a bow and arrow set for Larry (Robin Hood) Smith, KKV6688, and a cold chisel for Don (Cold Chisel) Bostic.

The wives of the club members served them coffee, punch, cake, and sandwiches.

Members attending the first annual Christmas party were: Ed and Judy Livingston, KEH4002, Mr. Leslie Smith, Larry Smith, KKV6688, Miss Johnnie Harper, Roy and Mary Tomberlain, KEH4723, Coy Hams, KKV-7030, Mr. Hollie Grooms, Dickie Grooms, KKV6165, George and Bennye Rice, Jr., KKV2215, Jim and Ann Mullins, KKV4468, Don and Ruth Bostic, KEH4175, Bill McClenny, KKV8165, Bernard Langford, KKV-7429, Max Gilfillan, KEH7052, Miss Martha Kenndy, and Albert Gray, KKV5833.

The annual election of officers of the Mountain-Aire's CB Radio Club, was held recently. The following members will take office at our first regular meeting of the New Year on the 6th of January, 7:30 p.m., at the El Paso County Sheriff's Office: President, Buck Bouker, KLE0571; Vice President, Jim Best, KDE4140; Treasurer, John Surprenant, KHA9843, Secretary, Gary Schench, KGC1199.

A membership drive will begin in January and will run up to the 2nd of March. Membership will include a subscription to S9, the citizens band journal. Many club activities are planned for the forthcoming year, to include many family activities. Any one interested in joining this progressive, hard working club, contact any one of the club officers.

EXTERIOR

The Waianae CB Radio Club, Inc., originated in July, 1963, is an organization of men and women who are interested in the proper use of radio communication for public services and entertainment. Many of their members are in State of Hawaii Civil Defense and The American National Red Cross Disaster-Service Communication. The Club has participated in Civil Defense drills, tidal wave alerts and keeps its services always available to the community.

Officers are President, Andrew Rabanes, KIG0225; Vice President, Andrew Kaawa, Jr., KIG0221; Secretary, Jeanne Kaawa, KIG0242; Treasurer, Florencio Rita, KIG0104; Radio Officer, Victor Humalon, KIF-0159; Welfare Chairman, Josephine Rabanes, KIG0267; Project Chairman, Richard Keohuhu, KIG0278; Sergeant-at-arms, Jack Kumalaa, KIF0038; Robert Paaluh, KIG0184.

Those CB'ers in Oahu, Hawaii interested in joining the club or in enlisting its services should write to: Waianae CB Radio Club, Inc., P.O. Box 436, Waianae, Hawaii 96792.



Watch for next month's big issue



BEST BETS FOR LISTENERS ON THE DX BANDS

by RICK SLATTERY

A report from W. E. Lipis, El Cajon, Calif., tips us off to station HCRM1, Quito, Ecuador, on 565 kc/s at 0230 EST with classical music. Also heard was Dakar, Senegal, on 764 kc/s at 0230 EST. Two South Americans (both in Colombia) were also added to Bill's log—HJBI, Santa Marta, at 0100 EST on 840 kc/s, and HJAV, Monteria ("R. Cordobesa") at 0450 EST on 1220 kc/s. Bill listens on a Navy surplus RBO 12 tube receiver with a 577 foot long wire.

Anthony Calvello, Brooklyn, N. Y. tells us that he has sent out 32 reports and has received 31 verifications in return. Can anybody beat this percentage?

John McNally, Grimsby, Ont., says that two good ones to try for are XEWA, 540 kc/s, in San Luis Postosi and XEJP, 1150 kc/s, in Mexico City. Says they really blast into Canada, but XEJP can be heard only on Sunday nights when CKOC in Hamilton is silent.

Old time S9'er John Batley, KH11466, looks like he "got bit" by the DX bug from the looks of this photo of his SWL shack. John, send us in some of those loggings.

Reader Harold Rumer, K2BVN/KBC5624, Brooklyn, N. Y. says that he's had mucho luck with an indoor shortwave antenna consisting of one of those *Slinky* toy springs stretched across his room. The receiver is connected to it by means of an alligator clip from the lead in.

Riley Sundstrom, 2Q3671, Stockton, N. J. is not only an old time CB'er, but one of the better known DX enthusiasts going. Riley says that two interesting *Radio Peking* channels are 9955 kc/s at 1500 EST and 9785 kc/s at 0555 EST. Among Riley's better broadcast band catches are YNOL, Managua, Nicaragua on 828 kc/s at 0300 EST; CSA2, Lisbon, Portugal, 665 kc/s at 0305 EST; and BBC, Brookmans Park, England, at 1735 EST on 1214 kc/s.

Rambling on the bands: R. Canada, Montreal, in French at 17820 kc/s at 0820 EST; LRA,



Buenos Aires, Argentina, in Spanish on 15345 kc/s at 1330 EST; OIX4, Pori, Finland, good signal to North America at 0845 EST on 9555, 11805, 15185 kc/s; *Vatican Radio*, Vatican City, loud and clear at 1950 EST in English, on 7350, 5985, and 9645 kc/s; *Radio Nederland*, Hilversum, Netherlands, blasting through in English at 1555 EST on 6085 kc/s; YVKX, *La Voz de Patria*, Caracas, Venezuela, at 2230 EST on 3305 kc/s.

For "Utilities" enthusiasts we suggest 8905 kc/s which really swings with a Pacific area aeronautical network. Listen nights for stations in Honolulu, Anchorage, Hong Kong, Tokyo, etc. And don't forget 8880 kc/s which turns up many of the same stations, frequently heard working PAA flights (identified by the word "Clipper" followed by a number). On 6420 kc/s a number of readers report hearing land and ship stations along the Mississippi River in communication with each other—of course the old marine standby frequency is still 2182 kc/s, you can't go wrong there if you want to roll up a healthy log of ship and shore stations.

Let's have those reports, gang.





KYLE'S KORNER

WRITE TO:

JIM KYLE, KEG3382
% S9 MAGAZINE
14 VANDERVENTER AVE.
PT. WASHINGTON, N. Y. 11050

This month I finally got around to straightening out the combined shack-lab-office where all this emanates from, and I stumbled across a whole batch of letters in a package on which I had written a note to myself way last summer: "For Immediate Reply."

So those of you who have been cussing me since then know what happened. My intentions were good, but you know what road is paved with good intentions! Here, mixed with the current crop of questions, are the answers.

TRANSISTOR SOURCE

Several years ago I built a pre-amp for my . . . microphone which did work very good on my CB rig. It does not work now due to the fact that I need a new Delco DS-22 or DS-25 transistor. Can you let me know the name of a company where I may obtain the exact transistor?

—P.H., Port Jervis, N.Y.

Delco, as you may know, is primarily in the autoparts business (though they're going great guns in transistors too) and most of their components can be located most easily by checking with your friendly auto mechanic as to where he gets them. I don't have an address from which the DS-22 or DS-25 can be ordered. However, the Sams "Transistor Substitution Handbook," 3rd edition, lists as substitutes for the DS22 the following types: BE6, BE6A, and HF12H. The BE6 and BE6A are distributed by Workman TV, and are available at most parts houses for around \$1 each, while the HF12H comes from Semitronics Corporation and is also widely available. Continuing, as substitutes for the HF12H (on the theory that we might as well substitute for the substitute!), a whole string is listed: 2N113, 2N139, 2N140, 2N218, 2N271, 2N302, 2N409, 2N414, 2N428, 2N481, 2N580, 2N616, 2N1281, 2N1316, 2N1346, and I won't even list the oddball "non-2N-" numbers. Surely at least one of these types ought to be on the shelf at your favorite supplier.

In addition, I'm familiar with the preamp circuit you have (only one was ever published

with the DS-22 in it!) and I can assure you that virtually any PNP transistor with medium to high gain will work, so there's really not much point in going out of your way to find an exact replacement. The old standby, the 2N107, is excellent. The 2N109, an audio type, is better yet, and the 2N508, which is built for particularly low audio noise level, is the best of all. You may have to change the value of the load resistor when you change transistors, but most probably you'll find no difference with all the rest of the circuit left alone.

ALTERNATOR AVAILABILITY

I would like to know where I can purchase the alternator system mentioned in your story in the May issue of S9. Thank you.

—D.S., Geneva, N.Y.

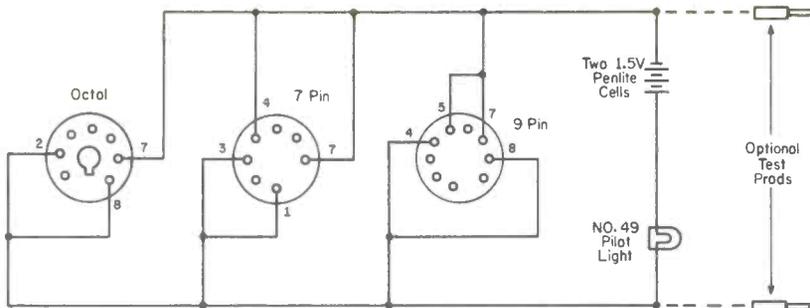
The alternator system mentioned in that article was the Motorola all-electronic system. On page 387 of Lafayette Radio's 1965 catalog, three sizes are listed. The 35-amp system sells for \$50.63, the 40-amp model for \$57.38, and the 55-amp for \$60.75. If you're going to do it, it's well worth the extra \$10 to get 55 amps in place of 35. Lafayette's address is 111 Jericho Turnpike, Syosset, L.I., N.Y., zip 11791. If you order, don't forget to include postage for 15 pounds' shipping weight. The same system is also distributed on a nationwide basis through new-car dealers, at a slightly higher price.

TUBE TESTING

I would like to be able to test the tubes in my receiver. Is there any inexpensive way to do this?

—M.A., Cedar City, Utah

I'm tempted to say, "Take them to the nearest supermarket," but I don't think this is really what you meant. (Aside, however, this actually is one of the easiest ways; most supermarket testers are fairly accurate. You can always buy the new tubes at the parts house.) Back in Jan-



"World's Cheapest Tube Checker"

PARTS LIST

- 1 Octal tube socket (Amphenol 77MIP8 or equiv.)
- 1 7 Pin tube socket (Amphenol 77MIP7S or equiv.)
- 1 9 Pin tube socket (Amphenol 77MIP8T or equiv.)
- 2 1.5 volt penlite cells (Eveready 912 or equiv.)
- 1 No. 49 pilot lamp
- 1 Socket for pilot lamp (Dialco 708 or equiv.) (optional) Small plastic box, battery holder, optional test prods.

uary, 1963, these pages had an article on building the "World's Cheapest Tube Tester" which costs less than a buck. While it only tests whether or not the filament is burned out, that's the most usual thing wrong with tubes, so it's a useful device. The schematic for it appears somewhere around here. If you want a more accurate test than this, all the mail-order houses offer inexpensive emission-type testers in the \$15-to-\$25 price range, and these are at least as accurate as the supermarket kind. For a super-duper test you'll have to have a professional tester, and these start at around \$60 and go up from there. The one I've had my eyes on for several years sells for a hair less than \$2,000! And even this one won't tell you *for sure* whether any one tube is a good oscillator. For this, the only test is substitution.

WANTS A SCOPE

Everybody tells me that the right way to check modulation of any rig is with a scope. I've read the books and know how to do it—but I hate to spend more than \$50 for a scope. Do you know of an inexpensive scope, either one I can buy or one I can build?

—K.P., Decatur, Ga.

I don't know of any commercial unit you can get for much less than \$50, unless you just happen to stumble across a bargain. However, back in September, 1963, on page 14, there was an

article on one you could build for under \$20. I believe that you can still obtain a copy of this issue from the circulation department here.

I have used a scope built to this same design, and it works well for checking modulation. It is fairly free of extra frills, but is excellent for the intended purpose. There is one possible problem with it, which wasn't mentioned in the original article: it uses a line-type power supply, which means that if you let any of the wiring get in contact with the case, you'll have fireworks when the unit is hooked up. In the one I used, the case was connected to the "B—" side of the line. It worked fine until one day the plug got turned around in the wall socket. The next time I switched to transmit and the relay closed to put the rig on the air, the 115-volt line power went sailing through the metal case of the scope, arced to the transmitter chassis, welded the relay contacts shut, and while it was at it, set fire to the antenna connector! This won't happen if you (1) keep all wiring free of the case, or (2) install an "isolation transformer" under your desk (this will cost about \$5) and feed the scope from the isolation transformer rather than from the line.

UNUSUALLY STUBBORN IGNITION NOISE

I really have a problem. I drag race, and the ignition system of my Ford is beefed up all the way. I even have ignition noise in the broadcast band! Now I've gone CB, and I can't seem to lick the noise. Do you have any suggestions?

—A.B., Casa Grande, Ariz.

I assume you've already done all the "standard" things such as suppressors on plugs and distributor. However, have you put a bypass on the coil primary leads (both of them, if you have two)? About a year ago I had occasion to look around the wiring of an idling auto, using a top-quality lab-type scope. We were hunting the source of a whine which was getting into a mobile P.A. system. We found a very large audio-frequency square wave, which was on virtually every power wire in the vehicle. It turned out to

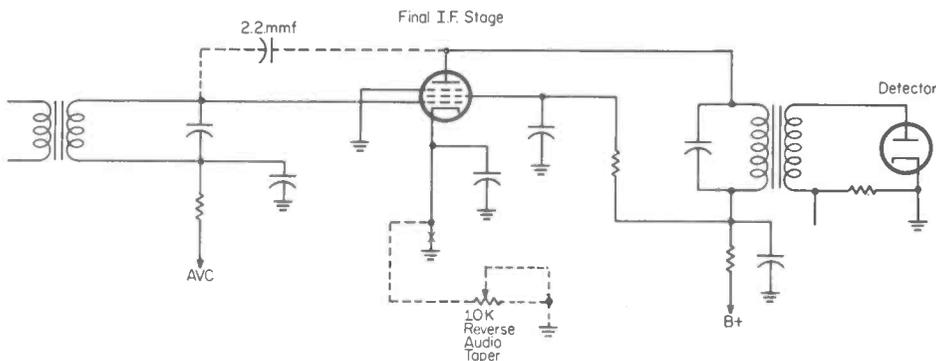
be caused by the operation of the ignition system. It won't show on any DC instruments, and doesn't seem to be very big on most AC meters—but the scope indicated a walloping 50 volts of it, with a 12-volt car. A beefed-up ignition could easily produce even more. This square wave has a lot of RF energy in it, which will sound just like it's coming from the plugs. The only way to lick it is to hold the square wave off as much wiring as possible, and that means bypassing the coil primary. This may, in turn, upset your timing, so be ready to re-time. And when you bypass, use good capacitors; they have to stand up to the full peak-to-peak value of that square wave, which *could* go as high as 500 volts with really hot ignition. If this works, you might try taking out the resistive suppression on the plugs, etc., and seeing if it was really doing much in the first place!

SHARPENING THAT RECEIVER

In the August, 1963 issue of S9, on page 15, you had a story called "Sharpen That Receiver." I followed your instructions exactly but it just made the receiver go dead. The only way I could make it work was to change it back the way it was before. What did I do wrong? Or was it you?

—P.A., Detroit, Mich.

In that article, I said to use a 2.2 mmf capacitor from plate to grid of the final IF stage and add a gain control. The schematic is around here



Original diagram for sharpening up a receiver.

someplace. It appears that the mistake was mine, because a lot of people had trouble (though a lot more *didn't*). Apparently, for many rigs, 2.2 mmf is way too much, and forces them to oscillate despite the gain reduction caused by the control. Try replacing the 2.2 mmf capacitor with a "gimmick", which is simply two pieces of ordinary hookup wire twisted together (see sketch). Three or four twists should be enough for a start. If it still dies, or squeals, or the control seems to be exceptionally "touchy", untwist

Keep Ends Separated



Insulated Hookup Wire

"Leads"

Making A "Gimmick"

a turn or two and clip off the ends. You may even get down to having only half a twist, with some of the hotter new tubes now in use! The same idea works with transistor sets, but the gain control circuit has to be very different. It's not really practical to try to modify them in this way.

VIBRATION PROBLEM

The CB unit in my truck takes a beating whenever I drive over rough roads. Will all this bouncing around hurt the tubes? If it will, can I get tubes that will stand up to it?

—K.L., Birmingham, Ala.

You can answer the first question better than I can! If tube life seems to be about normal (which is around 1000 hours average for entertainment-type tubes, which most CB rigs use), then the vibration isn't hurting them. If they go dead faster than this, they're suffering. In theory, at least, vibration certainly isn't good for a tube. There is a whole series of "ruggedized" tube types built to stand up to vibration, and if you search hard enough you can get them. Most likely source is through industrial electronic

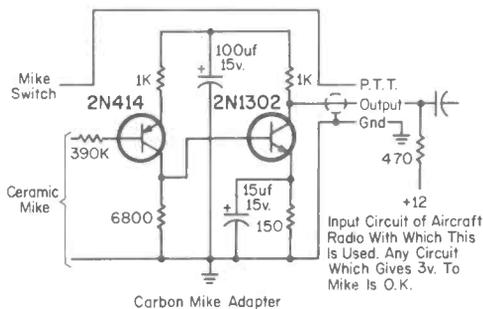
supply houses; second most likely is the military surplus store, since almost all military tubes are ruggedized. Several cross-reference lists have been published in S9 in the past, correlating the regular tube type numbers to the numbers of the rugged variety. Of course, some CB rigs are built especially for this kind of service. General Radiotelephone makes one vibration-resistant rig, and almost any all-transistor rig will stand up to shock better than the average tube-type transceiver. This might be your best bet if you're thinking of a new rig anyway!

REPLACING CARBON MIKE

My rig came with a carbon mike on it (yes, I know it's an old one, but I like it) and I want to replace the mike with one that won't be as noisy. How can I do this?

—J.A., Shelbyville, Ind.

This past summer I helped work out a unit for aircraft radio which ought to fit your need perfectly. It's a two-transistor amplifier which fits into the case of a Euphonics model C47D noise-cancelling ceramic microphone, and gets its power from the original carbon-mike circuit.



The schematic for it is around here someplace, and if you can fit it into a 1-inch-square piece of perforated board there's room in the mike case for it. It will also work with any other ceramic mike. If you want to buy the whole thing ready built, drop a note to Mr. James Speck, Aircraftmen, Inc., P.O. Box 82516, Oklahoma City, Okla., to get the price. You can also get a circuit board, designed to use 1/10-watt resistors and Cal-Rad miniature electrolytic capacitors, for \$1.50 postpaid from E.C.A., 517 S.E. 19th, Oklahoma City, who makes them for the aircraft firm. They tell me the board is etched and drilled, but not marked for parts location. However, they will enclose a sketch showing location of the parts if you request it.

ANTENNA TUNER PROBLEM

I want to try the antenna tuner you put in the August '64 S9, but so far I haven't been able to find any Airdux 808 coil. Would you mind letting

me know the turns-per-inch, etc., so I can wind my own? me the B&W number, that will
—M.C.G.

Airdux uses a very simple code; digits indicate the turns per inch, and that indicate diameter, in eighths of an inch. Thus type 808 is 8 turns per inch, 8/16 or one inch diameter. All their coils are wound with No. 20 wire. The corresponding B&W number is 3014.

Getting the conversion from Airdux to B&W coil stock numbers isn't always the easiest thing in the world. Keep in mind the simple Airdux code, and the following listing will give you the size of any Airdux or B&W coil stock anyone may specify in a construction project:

AIRDUX	B&W	AIRDUX	B&W
404	3001	604	3009
408	3002	608	3010
416	3003	616	3011
432	3004	632	3012
504	3005	804	3013
508	3006	808	3014
516	3007	816	3015
532	3008	832	3016

In addition to these sizes, Airdux makes a number of other sizes which have no B&W equivalents. Some of these are 410, 510, 610, and 810, which are 10-turn-per-inch coils in 1/2-inch, 3/8-inch, 1/4-inch, and one-inch diameters.

COLD SOLDER

I've heard that there's a true cold solder out now, which doesn't require any heat at all and makes a joint as firm and as good electrically as regular solder. Is this true, or is somebody pulling my leg?

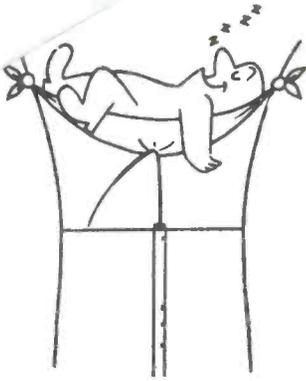
—D.G.F., Los Angeles, Calif.

It's true, but I doubt that it's what you would call "commercial" yet. A number of companies make the stuff, which is a variant of the familiar epoxy cement which holds anything to anything. One firm making it is Electro-Science Laboratories, Inc., 133-35 Arch Street, Philadelphia 7, Pennsylvania, and I just happen to have their price list on hand. They call the material "No. 2209 Conductive Adhesive" and they'll sell you a 4-ounce kit for \$15. If you want it by the pound, it's \$40 per. Now, if you're still with us and still interested, you can get all the dope on it by writing them for their "Product Bulletin No. 109." I'll stick to solder, myself until the prices come down in a year or three!

CB DOOR OPENER?

Tell me what's wrong with my latest brain-storm. I know that radio-controlled garage-door

Continued on page 67



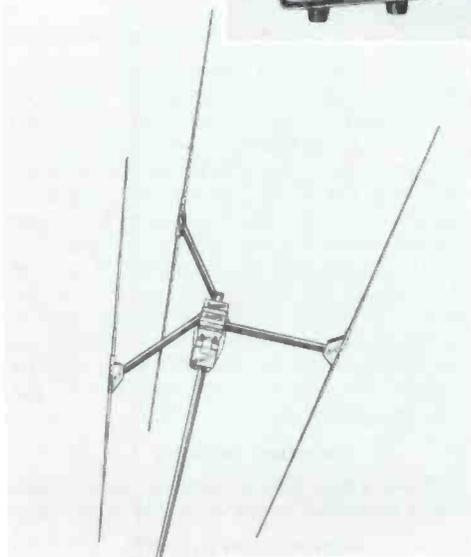
ANTENNAS

by LEN BUCKWALTER, KBA4480

THE SCANNER

"Wait'll I swing the beam on you," the familiar cry of the beam boys, is due for some change. Soon you'll hear, "I'm *switching* the beam." Reason is the new trend in CB directional antennas; elements that remain rock-solid in place, but give the effect of movement. It's like watering the lawn; only now the hose stays still, the grass moves. Latest entry into the field of non-budging beam antennas is the "Scanner", brought out recently by Antenna Specialists.

The secret is a little control box, which remains in the shack, and three vertical elements (see photo).



Squirting the signal in a desired direction is done by switching the control box. A relay up on the mast connects one of the three antenna elements to the CB rig. The other two elements now form a screen to reflect and focus power on the active element. If this looks suspiciously like the action of a conventional 3-element beam, it is. The arrangement provides gain of nearly 8 db, which multiplies signal power by about 6 times. During receive, the same effect reduces interfering signals outside the pickup pattern.

Such electronic rotation eliminates the mechanical rotator. Also, there is no waiting for the beam to swing around; the choice among patterns occurs as fast as you can flip the control-box switch. Those patterns add up to full-circle coverage, based on one of three sectors at a time.

Like any new product, the Scanner didn't burst on the scene. About a year ago, Antenna Specialists engineers started work on the earliest prototypes. Most designing was done in the lab, but didn't end there. The Scanner had to prove its worth out in the field under actual operation by CB'ers. So the company farmed out eight of the prototype models. They went to various sectors of the country: Texas, Missouri, Minnesota, Georgia and California. Two units remained at headquarters in Cleveland.

Mixed with enthusiastic reports that filtered back were suggestions for improving the engineering model. Some CB'ers thought that mechanical assembly should be simpler—too many small hardware parts. So the engineers modified the antenna with more factory pre-assembly. To make the unit child's play to put together, they also added a color-coding feature for quick matching up of parts.

Then someone said that it wasn't easy to identify which pattern was selected. The answer takes the form of three pilot lamps on the control box. They glow white, red or amber to signify the pattern in use.

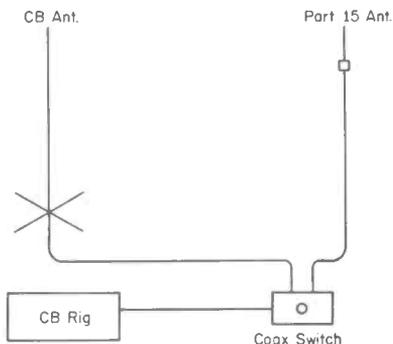
Finally, someone observed that it was possible to turn "off" the antenna (which opens up the relays) and run the risk of operating the CB rig with no load. The solution here is simple. An AC outlet is now mounted on the rear of the control box. With the CB rig plugged into this source, it is impossible to operate with no load. The on-off switch on the control box turns off both rig and antenna at the same time.

So the antenna went from rough prototype to commercial product. Antenna Specialists estimates that, at \$66, the Scanner is about 30 percent cheaper than a regular beam. And it also moves closer to that attractive goal; less mechanics, more electronics.

New life may be breathed into Part 15 operation, the low-power, license-free band, with the announcement of a new kind of rig by one CB maker. The rig will operate either as a standard 5-watter, or reduce power down to 100 milliwatts. This instant conversion from Part 95 to Part 15 could prove popular. After operating within CB regulations, the user can switch to low power and rag-chew without limits. Range is shorter, of course, but there's enough soup to contact the local cronies.

But CB and Part 15 collide on the matter of antennas. Just reducing power isn't enough. There are several important differences in antennas for each service. They are not interchangeable.

In regular CB operation, an antenna may reach up as high as 20 feet. It may have several elements, like those of a directional beam. Part 15 has more limits. As the rules state, a low-power antenna must be no longer than five feet and have just a single element. So you can't mix systems at least for antennas.



But there's one approach open to the CB'er who wishes to squeeze the last bit of performance out of a Part 15 operation. Why

Continued on page 66

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 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 15¢ ea.; Dual Socket for FT-243 Crystals, 15¢ ea.; Sockets for MC-7 and FT-171 Crystals 25¢ ea.; Ceramic Socket for HC6/U Crystals 20¢ ea.

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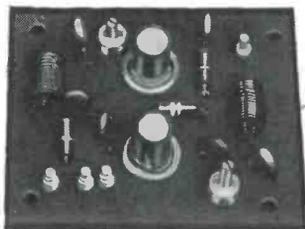
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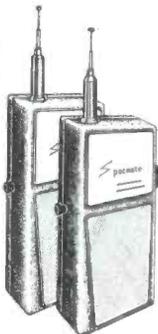
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- | | | |
|--------|---|--|
| SACA | 202 Edwin Bouligny, KLV0017, Washington, D.C. | 242 Tom Gerhart, KCE0001, Robesonia, Pa. |
| | 203 Harry Nechetsky, KKP2504, Niceville, Fla. | 243 Edwin Bouligny, KLV0017, Washington, D.C. |
| | 204 Pete Nosler, 17W3325, Wichita, Kansas | 244 Harry Nechetsky, KKP2504, Niceville, Fla. |
| PX-25 | 381 Charles Stafford, KLA0834, Fresno, Calif. | 245 Larry Maiden, KKK0717, Raleigh, N.C. |
| | 382 Edward Field, KEB1659, Gautier, Miss. | 246 Ben Michel, KLD0488, Seattle, Wash. |
| | 383 C. L. Nourse, KFA8968, Pismo Beach, Calif. | 247 Charles Powers, KHC9353, Louisville, Ky. |
| | 384 Marje Engel, KLK5976, Berwyn, Ill. | |
| | 385 Edwin Bouligny, KLV0017, Washington, D.C. | PX-125 |
| | 386 Ted Brown, KIE0816, Penn Yan, N. Y. | 174 Charles Stafford, KLA0834, Fresno, Calif. |
| | 387 Robert Levy, KLN2595, Columbus, Ohio | 175 Steve Yankee, 19A5551, Manistee, Mich. |
| | 388 Larry Murdock, KKN0206, Enterprise, Ala. | 176 Edwin Bouligny, KLV0017, Washington, D.C. |
| | 389 George Dresser, KBI0724, Peekskill, N.Y. | 177 Larry Maiden, KKK0717, Raleigh, N.C. |
| | 390 Richard Reynal, New Britain, Conn. | 178 Bill Giles, KKI0688, College Park, Md. |
| | 391 Arthur Tress, KKD2305, Union City, N.J. | 179 Eugene Cagle, KKP3468, Coral Gables, Fla. |
| | 392 Larry Maiden, KKK0717, Raleigh, N.C. | 180 Ronald Walters, KKL6913, Freeport, Ill. |
| | 393 Don Arndt, Cleveland, Ohio | PX-150 |
| | 394 Bruce Farley, KLA6402, Palo Alto, Calif. | 137 Charles Stafford, KLA0834, Fresno, Calif. |
| | 395 Ben Michel, KLD0488, Seattle, Wash. | 138 William Kocher, KCD5000, Bethlehem, Pa. |
| | 396 Ernie Wagner, KHC5181, Ashley, Ill. | 139 Dale Fletcher, KKK5201, Yucca Valley, Calif. |
| | 397 Norman Bernstein, KKD4799, Massapequa Pk., N.Y. | 140 Big Bill Britton, KLN7118, Dayton, Ohio |
| | 398 Benlah Cassell, KHI6760, Clendenin, W. Va. | 141 Richard Cady, KHJ6874, Winchester, Ky. |
| | 399 James Losey, KLP8296, Troy, N.Y. | 142 Wm. Holt, 2W7638, Dunellen, N.J. |
| | 400 Charles Powers, KHC9353, Louisville, Ky. | PX-175 |
| | 401 Dennis Dvorak, KLM2357, Cleveland, Ohio | 122 Charles Stafford, KLA0834, Fresno, Calif. |
| PX-50 | 335 Charles Stafford, KLA0834, Fresno, Calif. | 123 Marilyn Wise, KXX4804, Anaheim, Calif. |
| | 336 Edward Field, KEB1659, Gautier, Miss. | 124 Pete Nosler, 17W3325, Wichita, Kansas |
| | 337 C. L. Nourse, KFA8968, Pismo Beach, Calif. | 125 Richard Cady, KHJ6874, Winchester, Ky. |
| | 338 Edwin Bouligny, KLV0017, Washington, D.C. | PX-275 |
| | 339 Ted Brown, KIE0816, Penn Yan, N. Y. | 101 Stanley Pencil, KJ13337, Utica, N. Y. |
| | 340 Robert Levy, KLN2595, Columbus, Ohio | MSA |
| | 341 Larry Murdock, KKN0206, Enterprise, Ala. | 147 Pete Nosler, 17W3325, Wichita, Kansas |
| | 342 Vincent Cavicchi, KKD7623, Morristown, N.J. | 148 Geo. Radenheimer, KHH1363, Middletown, Ohio |
| | 343 Larry Maiden, KKK0717, Raleigh, N.C. | SSC-1 |
| | 344 Steve Minish, KKC6262, Winston-Salem, N.C. | 166 Edwin Bouligny, KLV0017, Washington, D.C. |
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| | 348 Marje Engel, KLK5976, Berwyn, Ill. | 170 Gene Cagle, KKP3468, Coral Gables, Fla. |
| | 349 Dennis Dvorak, KLM2357, Cleveland, Ohio | SSC-2 |
| PX-75 | 258 Charles Stafford, KLA0834, Fresno, Calif. | 135 William Kocher, KCD5000, Bethlehem, Pa. |
| | 259 Edward Field, KEB1659, Gautier, Miss. | 136 Bill Giles, KKI0688, College Park, Md. |
| | 260 Edwin Bouligny, KLV0017, Washington, D.C. | SSC-3 |
| | 261 Dewey Myers, KFA5970, Long Beach, Calif. | 116 Gene Ashley, KGB1886, Glendale, Ariz. |
| | 262 Larry Maiden, KKK0717, Raleigh, N.C. | SSC-4 |
| | 263 John Myott, KKA3088, Westfield, Mass. | 111 Wally Foster, 1060, Sierra Vista, Ariz. |
| | 264 Steve Minish, KCJ6262, Winston-Salem, N.C. | 112 Gene Bull, KFA1059, Sierra Vista, Ariz. |
| | 265 Ernie Wagner, KHC5181, Ashley, Ill. | 113 Gene Ashley, KGB1886, Glendale, Ariz. |
| | 266 Alberta Lai, KLA0858, Sacramento, Calif. | SSC-6 |
| | 267 Charles Powers, KHC9353, Louisville, Ky. | 107 Walt Wise, KFA4659, Anaheim, Calif. |
| | 268 Bob Vance, KLN4913, Cleveland, Ohio | SSC-7 |
| | 269 Marje Engel, KLK5976, Berwyn, Ill. | 106 Bud Fowkes, KLP5005, Duncansville, Pa. |
| PX-100 | 241 Charles Stafford, KLA0834, Fresno, Calif. | SSC-8 |
| | | 107 Bud Fowkes, KLP5005, Duncansville, Pa. |
| | | SSC-15 |
| | | 102 George Thayer, KLQ1624, Salamanca, N. Y. |
| | | SSC-16 |
| | | 102 George Thayer, KLQ1624, Salamanca, N. Y. |
| | | SSC-17 |
| | | 102 George Thayer, KLQ1624, Salamanca, N. Y. |

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 Un-

limited, 14 Vanderverter Avenue, Port Washington, N. Y. 11050. Deadline for listing in the May issue is March 12th.

Here are this month's swappers:

- 1Q0407 Gerard Lemire, 59 Summer St., Berlin, N. H.
 1W6216 Errol Engraving, 36 Hampden St., Westfield, Mass.
 2A5034 John Chomyk, 415 Madison St., Westbury, L. I., N. Y.
 2Q0152 Karl Weiss, 245 Ashmore Ave., Trenton, N. J.
 2Q1147 George Delaney, 308 - 47th St., Union City, N. J.
 2Q1911 William Plog, 11 Gould Rd., Centereach, L. I., N. Y.
 3Q1618 Everett Lindsey, R. D. 1, Mount Holly, New Jersey
 5Q2178 Elwyn Beam, Rt. 2, Vale, N. C.
 6Q0054 Glenn Poore, 1316 Pixson Pike, Chattanooga, Tenn.
 6Q4378 Ernest Watson, P. O. Box 104, Alpharetta, Ga.
 6W4390 Claude Witt, 814 S. Webb Ave., Crossville, Tenn.
 6W7263 Bill Orton, 905 Altamaha St., Chattanooga, Tenn.
 8Q1009 Sid Coryell, 4502 W. 29th St., Little Rock, Ark.
 9Q1018 Harold Sanders, 4640 Pittsburg St., Beaumont, Texas
 9W1506 Earl Bethscheider, 1006 Kress St., Houston, Texas
 11Q0822 Gordon Fleming, 10999 Standard Ave., Lynwood, Calif.
 11Q1313 George Strainline, 1171 W. Miracle Mile, Tucson, Ariz.
 11Q2714 Eileen Inns, 530 Catalina Dr., Newport Beach, Calif.
 11W8551 Bob Blakeley, 3064 Royce Lane, Costa Mesa, Calif.
 11W9751 George Strainline, 1171 W. Miracle Mile, Tucson, Ariz.
 12Q1341 Dave Jensen, 815 "B" St., Yuba City, Calif.
 18B2648 Glenn Davis, 6143 N. Rockwell St., Chicago, Ill.
 18B2698 Maxine Dick, P. O. Box 167, Kokomo, Ind.
 18Q4913 Tom Leadbetter, R. R. 4, Box 40, Muncie, Ind.
 18Q8866 Richard Cary, Route 4-Box 176, Russell Springs, Ky.
 18QA1528 Fred Schuemelfeder, 316 West Park Rd., Round Lake, Ill.
 19A5551 Steve Yankee, 357 1st St., Manistee, Mich.
 19A5964 Stan Sickler, 2310 Commor, Hamtramck, Mich.
 19A6598 Charles Ash, Box 66, Tippacano, Ohio
 19Q0707 Jim White, Box 108, Syracuse, Ohio
 19Q8152 John Kasten, 5916 Westbrook Dr., Brookpark, Ohio
 19Q9470 Adrian Fallert, 121 N. "C" St., Hamilton, Ohio
 19W8131 Robert Tatum, 23748 Haig Rd., Taylor, Mich.
 20Q0255 Philip Lundy, 48 Sodus St., Clyde, N. Y.
 20Q1272 David Covert, 6 Langford Apts., Barbourville, Ky.
 20Q1360 Ivan Smith, 419 Water St., Danville, Pa.
 20Q4816 J. F. Simpson, Box 56, R. D. 3, Everett, Pa.
 KAC2486 Dave Buda, 717 Centre St., Nutley, N. J.
 KAC2607 Ernest Sawyer, P. O. Box 146, Marshall, N. C.
 KAP2563 Burl Davis, Rt. 5, Parkersburg, W. Va.
 KBA3924 Edward Davis, Lobster King, St. George, Maine
 KBA5557 Ted Cummings, Bellflower Rd., Billerica, Mass.
 KBC0533 Ruth Charon, 109 Bowers St., Holyoke, Mass.
 KBC4768 George Sherman, 25 Church St., Rutland, Vt.
 KBC5455 Sandy Fitzgerald, 30 Stevens St., Chicopee, Mass.
 KBC6510 Ralph Bryant, 716 Riverside Dr., Fairfield, Conn.
 KBC6692 Mert Swett, RFD 1 Raymond Hill Rd., Uncasville, Conn.
 KBC6819 Robert Giustina, 68 Dunmoreland St., Springfield, Mass.
 KBC8093 Dennis Cidale, 17 Water St., Stonington, Conn.
 KBC9392 Joe Perry, 136 Tallman St., New Bedford, Mass.
 KBD0092 Bob Foster, 37 Lennea Lane, Reading, Mass.
 KBD0454 Ed Harhausen, 20 School St., No. Woburn, Mass.
 KBD0585 Paul Roy, 225 Elm St., Southbridge, Mass.
 KBD0747 Herb Girard, 348 Carrington Ave., Woonsocket, R. I.
 KBD1222 Judy Bloxson, 1647 Park Ave., Bridgeport, Conn.
 KBD1300 Jay Grele, 9 Argyle Circle, Seymour, Conn.
 KBD2689 L. Dawson, R. F. D. 3, Houlton, Maine
 KBD4096 Buck Lambert, RFD 1, Lebanon, N. H.
 KBC2292 Hermann Schulz, 471 Hilltop Rd., Yorktown Heights, N. Y.
 KBC4667 John Krueger, 23 Standpipe Rd., Freehold, N. J.
 KBG5169 Ivan Enslor, 203 Canterbury Gate, Lynbrook, L. I., N. Y.
 KBC5624 Harold Rumer, 912 Elton St., Brooklyn, N. Y.
 KBC6576 Charles Armwine, 725 South Broad St., Trenton, N. J.
 KBG7180 Pat Purcell, 99 Harvard Dr., Hartsdale, N. Y.
 KBG7387 George Schechter, 3535 Kings College Pl., Bronx, N. Y.
 KBG7687 Robert Thatcher, R. R. 1 - Box 59-B2, Hudson, N. Y.
 KBG8079 Alvin Allen, 610 Prospect Ave., Spring Lake Hgts, N. J.
 KBG8102 Clarence Gouger, 32 Clinton St., Newton, N. J.
 KBG8153 Betty Krueger, 23 Standpipe Rd., Freehold, N. J.
 KBH0301 Jack Whittier, 2400 Johnson St., Janesville, Wisc.
 KBH0797 Stan Shafer, 2205 North E. St., Richmond, Ind.
 KBH0853 Tom Walton, 324 Kenilworth Rd., Louisville, Ky.
 KBH1426 Fred Stearman, R. R. #1, Box 16, Erie, Ill.
 KBI0275 Hank Mancura, 64 Meadow Lane, Levittown, L. I., N. Y.
 KBI2083 Narce Radkiewicz, 1015 Cross Ave., Elizabeth, N. J.
 KBI2123 Richard Rios, 2897 Ardsley Rd., Wantagh, L. I., N. Y.
 KBI2251 Mona French, 19 Essex Lane, Old Bridge, N. J.
 KBI3455 John James, 299 1/2 Lark St., Albany, N. Y.
 KBI3661 Bob Buchanan, 79 Bayard Lane, Princeton, N. J.
 KBI3957 Mitch Berson, 67-45 Kissena Blvd., Flushing, N. Y.
 KBI6480 Art Scheid, 2 Essex Place, Hartsdale, N. Y.
 KBI7938 Joe DiGiaino, 287 E. 29 St., Paterson, N. J.
 KBI8077 John Krejc, 60 Division Ave., Garfield, N. J.
 KBI8797 Jo-Jo Tybush, 20 South St., Albany, N. Y.
 KBJ0326 Joan Tybush, 20 South St., Albany, N. Y.
 KBJ1238 Mike Enslor, 203 Canterbury Gate, Lynbrook, N. Y.
 KBJ1323 Bob Churgin, 588 Grand Blvd., Brentwood, N. Y.
 KBJ1722 George Hunt, 353 Highland Ave., Middletown, N. Y.
 KBJ1890 Douglas Weiss, 80 Woodward St., Roslyn Hgts., N. Y.
 KBJ1921 Paul Price, 117 No. Montgomery St., Valley Stream, N. Y.
 KCC1515 Orville Wright, 5856 Chestnut St., Phila., Pa.
 KCC1541 Donald Berle, 228 California Rd., Quakertown, Pa.
 KCC1860 Hank Thompson, 915 High St., Bethlehem, Penna.
 KCC2976 Alta Dicks, 320 N. High St., Millville, N. J.
 KCC4133 Anna Marie Castaldi, 5317 Grays Ave., Phila., Pa.
 KCD1896 Howard Taylor, South DuPont Rd., Penns Grove, N. J.
 KCD3262 Dick Davis, 232 E. Garfield St., Shippensburg, Pa.
 KCD3398 Roger Miller, R. D. 2, Kempton, Pa.
 KCD4540 Mike McClatchy, Bowker Rd., Medford Pines, N. J.
 KCD5154 Pete Rogers, 224 Tuscany Rd., Maple Gardens, Chester, Pa.
 KCD5491 Bernie & Phyllis, 1509 Bondridge Rd., Wilm., Del.
 KCE0001 Tom Gerhart, 38 E. Lincoln Ave., Robesonia, Pa.
 KCF0823 Jim Cross, 755 S. Potomac St., Hagestown, Md.
 KCF1224 Harold Channell, Box 126, Alexandria, Va.
 KCG0706 Eddie Becker, 4305 Franconia Rd., Alexandria, Va.
 KCG1087 Barney Ross, 425 Garden St., Washington, D. C.
 KCG1835 Edsel Peacemaker, Route 2, Winchester, Va.
 KCG2891 Edith Becker, 4305 Franconia Rd., Alexandria, Va.
 KCG3068 Ricky Lowman, 1001 W. Addition St., Martinsburg, W. Va.
 KCG3569 Charles Berry, Nonreh Road, Rt. 3, Crestwood, Salisbury, Md.
 KC11656 Allen St. Clair, 2847 Cannady Rd., Roanoke, Va.
 KC12842 Clarence Moore, Rt. 4, Box 34, Thomasville, N. C.
 KC16280 D. W. Ruffy, Taylorsville, N. C.
 KCJ0690 James Deavers, Box 214, Bladenboro, N. C.
 KCJ1066 Kermit Minter, 314 W. Maryland Ave., Draper, N. C.
 KCJ2292 Hazel Stubbs, P. O. Box 1076, Rockingham, N. C.
 KCJ2780 R. K. Harris, 513 McDonald Ave., Charlotte, N. C.
 KCJ3095 Donald Kellogg, Glen Allen, Virginia
 KCJ4079 Jack Kirby, 3601 North Ave., Richmond, Va.
 KCJ4187 Joel Smyre, 747 S. Brady Ave., Newton, N. C.
 KCJ4911 Jearl Bishopt, 1801 Chatham Ave., Charlotte, N. C.
 KCJ5092 Doug Paynter, 1001 East Jefferson St., Charlottesville, Va.
 KCJ5269 Lawrence Paysour, Box 591, Dallas, N. C.
 KCJ6180 Buddy Williamson, 604 Gillespie St., Greensboro, N. C.
 KCJ6413 Wendell Proco, Rt. 1 (Rt. 114), Cambria, Va.
 KCJ6987 Tommy Pollok, Gladys, Virginia
 KCJ7698 Joel Dawson, 1125 Tabors St., High Point, N. C.
 KCJ7737 Alton Clarke, 1009 Hamilton Ave., Clifton Forge, Va.
 KCJ8516 The Morrison's, 826 Longview Dr., Woodbridge, Va.
 KCJ8638 Roger Duncan, 610 Church St., Spray, N. C.
 KCJ8765 T. L. Matlock, RFD 5, Box 558, Greensboro, N. C.
 KCJ9372 Gene Andrews, Route 5, Box 204, Glen Allen, Va.
 KDA0119 Jack Hall, 32 Pickard Circle, Lexington, N. C.
 KDB0371 Bill Howell, 545 Palmetto Lane, S. W., Aiken, S. C.
 KDB5962 Robert Furline, Route 1, Siluria, Ala.
 KDC0390 Jerry Pater, 1195 Dale Road, Hamilton, Ohio
 KDC0843 Raymond Sheely, Box 95, Petersburg, Ohio
 KDC1255 Ben Hefner, 1804 Lennox Ave., Lima, Ohio
 KDC1358 W. L. McKeever, 435 Lynn Ave., Lakeside, Ohio
 KDD1805 Freddie Martin, 897 N. Highland Ave. N. E., Atlanta, Ga.
 KDD2134 Michael Ashby, 316 S. Franklin St., Tullahoma, Tenn.
 KDD6368 Dennis Laxon, Route 3, Box 387, Lenoir, N. C.
 KDD7568 Bill 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.
 KDE0198 Alayne Watson, P. O. Box 104, Alpharetta, Ga.
 KDE0565 Rodney Wise, P. O. Box 2953, Asheville, N. C.
 KDE1377 George Geriner, 4087 Lewer St., Memphis, Tenn.
 KDE2266 Richard Bolding, 805 W. Crawford St., Dalton, Ga.
 KDHI318 Robert Dwyer, 105 Mc Kinley Ave., Cocoa Beach, Fla.
 KDII289 Bill Cherry, P. O. Box 1114, Vero Beach, Fla.
 KDJ3211 Donna Wendy, 1601 Cimarron Trail, Wichita Falls, Texas
 KDJ3426 Dozier Hendry, 2071 North Moon Ave., Brandon, Fla.
 KDJ0332 Nick Miller, Box 3006, St. Petersburg, Fla.
 KEB1659 Ed. Field, P. O. Box 481, Gautier, Miss.
 KEB1661 Bob Fancher, Darling, Miss.
 KEB4002 Al Mayer, 306 West 8th, North Little Rock, Ark.
 KEB4614 Carlos Bailey, Rt. 6-Box 400, Pine Bluff, Ark.
 KED0572 Arthur Cates, 2708 Virginia, Baytown, Texas

KEE1986 Jim Hawkins, 2502 Spokane Rd., San Antonio, Tex.
KEE2031 John Wasson, 334 Cypress, Lake Jackson, Texas
KEE2099 Bill Hills, 181 Linda Circle, Ocean Springs, Miss.
KEE3243 Jesse Meadows, 7307 Adelbert St., Houston, Texas
KEE3761 H. Broadus, 1300 Kyle Rd., Clute, Texas
KEH0445 Wally Williams, 1428 Purdue, Oklahoma City, Okla.
KEH1105 Fred Kimbro, 213 N. Edmond, Muskogee, Okla.
KEH2115 Ray Harper, Box 1083, Lubbock, Texas
KEH5846 Kenneth Bales, Box 295, Guydon, Okla.
KEH6424 Melvin Ervin, 112 West Madison, Mangum, Okla.
KEH7235 John Glover, 2428 Hugo St., Dallas, Texas
KEJ0071 Melvin Nutting, 932 Western Ave., Colton, Calif.
KFA1739 Eddie Davis, 1609 W. 10th St., Santa Ana, Calif.
KFA3071 Dennis Hook, 391 Freear Drive, Buellton, Calif.
KFA4167 Mike Daugherty, 2736 E. Fairmount, Phoenix, Ariz.
KFA4659 Walt Wise, 613 No. Glenwood St., Anaheim, Calif.
KFA9144 Thomas Couch, 9422 Blackley St., Temple City, Calif.
KFB0396 Ron Federico, 815 No. Palisade Dr., Santa Maria, Calif.
KFC3866 Rex Mathews, 407 Potomac Ave., Sacramento, Calif.
KFC4415 Jimmy Bennett, 12 Nielson Ave., Yuba City, Calif.
KFD1525 Chuck Watrous, 421 W. 12th St., Tracy, Calif.
KFD2055 Chuck Boehnke, P.O. Box 223, Los Gatos, Calif.
KFD3924 Steve Seteroff, 380 "B" St., Hayward, Calif.
KFD4230 Neil Sweetland, 2505 Arthur Ave., Fresno, Calif.
KFD4362 Ron Leshar, 2585 Painted Rock Dr., Santa Clara, Calif.
KFD4509 Loraine Deming, 548 Vista Mar, Pacifica, Calif.
KFD4865 Bob Deming, 548 Vista Mar, Pacifica, Calif.
KFD4870 Bud Fischer, 1525 Blackstone, Fresno, Calif.
KFD5811 Larry Klueder, P.O. Box 183, Oroville, Calif.
KFD6256 Sparky Pinola, 3335 Mabel St., Sacramento, Calif.
KF11219 Jack Sudduth, 8103 16th S.W., Seattle, Wash.
KF11731 Frank Vestal, 1414 No. Oakes St., Tacoma, Wash.
KFJ0479 Agnes Sudduth, 8103 16th S.W., Seattle, Wash.
KFJ0963 Larry Vestal, P.O. Box 474, Tacoma, Wash.
KFJ1703 Jim Woodland, 2011 West Broadway, Spokane, Wash.
KFJ1939 Bob Hudson, 2505 NE 135th, Seattle, Wash.
KGC2028 Roy Dakin, 4161 South Lincoln St., Englewood, Colorado
KGF1276 Don Nelson, 5912 West 46 St., Sioux Falls, S. Dak.
KGF1733 Dave Kryzer, 553 East 7th St., Winona, Minn.
KGF2118 John Nelhart, 1590 So. Mississippi Blvd., St. Paul, Minn.
KG33372 Wayne Hutchins, P.O. Box 311, Carthage, Mo.
KG16082 Bill Wilson, 900 South Madison, Plainville, Kansas
KG16100 Robert Schmink, 357 No. Waco, Wichita, Kansas
KG18017 Mel Hammer, Box 326, Valley Center, Kansas
KHA3006 Harold Calhoun, R. 2-Box 198, Ft. Madison, Iowa
KHA7523 Kay Kagel, P.O. Box 3504, South Bend, Ind.
KHA8376 The Velpels, 801 S. Franklin St., Garrett, Ind.
KHB0639 Dick Kesler, R. 4, Olney, Ill.
KHB1535 Bob Kagel, P.O. Box 3504, South Bend, Ind.
KHB2113 Rilsley Farms, R.F.D. 4-Highway 15 West, Mt. Carmel, Ill.
KHB2216 Ed Myers, 509 S. Fellows St., South Bend, Ind.
KHB2233 Harold Conley, 1516 Hedge Rd., Chanpaing, Ill.
KHC0280 Dick Dills, 5 West Cherry, McLeansboro, Ill.
KHC1431 Roger Johnson (no address enclosed)
KHC4075 Ron Gauke, 3851 N. 3rd St., Milwaukee, Wisc.
KHC4185 Lou Chappell, 3644 E. Minnie St., Decatur, Ill.
KHC8347 Jim Taylor, Rosine, Ky.
KHC8816 Gene Butler, R. 2, Box 41, Williamsport, Ind.
KHD4555 Ben Dennis, 2835 Glenwood, Rockford, Ill.
KHD4705 George Newberry, 1027 W. Douglas St., Freeport, Ill.
KHD6168 Leo Hazen, 1224-14th St., Rock Island, Ill.
KHD6438 Charles Weatherholt, On Highway 140, Alhambra, Ill.
KHD6704 Geo. Corter, 1512 W. School St., Chicago, Ill.
KHD8210 Adelaide Harris, R. R. 5, North Vernon, Ind.
KHD8505 Lucile Webber, Box 421-A-1, Spring Grove, Ill.
KHD8713 Bob Graham, Box 3, Kenilworth, Ill.
KHD8768 Geo. Jones, 929 Hardin Ave., Jacksonville, Ill.
KHE0875 Weldon Jones, Box 26, 504 W. Kirkwood, Bloomington, Ind.
KHE0968 Mick Newton, 634 Madison Ave., Evansville, Ind.
KHG4493 Chuck Cooley, 2243 Ham. Cleves Rd., Hamilton, Ohio
KHG4945 C.M. Cooley, 1006 Hooven Ave., Hamilton, Ohio
KHG5522 Vi Holt, Clare, Mich.
KHG6303 Walter Dodds, 4216 W. 22 St., Cleveland, Ohio
KHG9069 Herb Riggle, Route 5, Zaniesville, Ohio
KHG9554 Kenny Roberts, 1584 Stewart Rd., Lima, Ohio
KHH1363 Geo. Radenheimer, 3121 Andrew St., Middletown, Ohio
KHH3134 Flint McCullough, 800 12th St. S.W., Massillon, Ohio
KHI0402 Bill Palmer, 120 Ohio Ave., Wadsworth, Ohio
KHI2703 James McClure, R.R. 1, Box 217, Yawkey, W. Va.
KHI2786 Don Steinmetz, 125 N. William St., Marine City, Mich.
KHI2916 Larry Bauder, 120 Bradley Rd., Midland, Mich.
KHI2952 Bill Culver, 119 East Brooks, Howell, Mich.
KHI4300 Larry Doyle, 171 Gregory Lane, Hamilton, Ohio
KH15457 George Barker, 343 N. 27th St., Battle Creek, Mich.
KH17117 Melvin Anderson, Rt. 1, Box 155-A, Hinton, W. Va.
KH19979 Gene Taylor, 121 N. Adolph Ave., Akron, Ohio
KHJ1206 Herb & Marty Snyder, 1516 Lockwood Rd., Barberton, Ohio
KHJ1415 John Bryant, Route 1-Box 254-G, Bellefonte, Penn.
KHJ1858 Norm Owing, 505 N. Clairmont, Springfield, Ohio
KHJ2097 Rick Hilberg, 3403 West 119 St., Cleveland, Ohio
KHJ2246 Gus Cottis, R. D. 2, Bantam Ridge, Wintersville, Ohio
KHJ2653 Jeff Cunningham, 3317 Orchard Dr., Portsmouth, Ohio
KHJ3477 Donald Belitz, 13474 Enid Blvd., Lake Fenton, Mich.
KHJ3482 Robert Albright, R.#2-Box 184, Buchanan, Mich.
KHJ4670 Allen Zielke, R.#2-Box 184, Buchanan, Mich.
KHJ4747 Don Senger, 2650 Mandale, Orchard Lake, Mich.
KHJ5190 Terry Elliott, 327 Riverside Dr., Battle Creek, Mich.
KHJ5485 Don Larabell, 14865 Stout, Detroit, Mich.
KHJ6091 Justus Kunk, No. 13, Pew Place, Scio, Ohio
KHJ6270 Lois Albright, 110 W. State, Box 369, Springboro, Ohio
KHJ6874 Richard Cady, P.O. Box 193, Winchester, Ky.
KHJ7270 Bob Wilkinson, 500 Magnolia Ave., Cuyahoga Falls, Ohio
KHJ7217 Ray Smejkal, 2652-A Hickory, Glasgow AFB, Montana
KHJ8843 Bob McCarty, Route 4, Mt. Sterling, Ky.
KHJ9317 James Denman, 809 E. Bellefontaine St., Wapakoneta, Ohio
KHJ9411 Jim Waters, 1430 Maysville Ave., Zaniesville, Ohio
KHJ9508 Jim Fosnough, P.O. Box 674, Killeen, Texas
KHJ9618 Lou Orgovan, 3302 Cypress Ave., Cleveland, Ohio
KIA0174 Tom Rogowski, 2915 Noddin Way, Portsmouth, Ohio
KIA0762 Leroy Budler, 1808 Lennox, Lima, Ohio
KIA1323 Nancy Harris, P.O. Box 263, Steubenville, Ohio
KIA1514 Bev. Bashore, 916 N. Miami, Sidney, Ohio
KIC1185 Curt Hammond, Box 85, Rensselaer Falls, N. Y.
KIC1207 Arlene Warner, 2273 Mosser Ave., Williamsport, Pa.
KIC2126 Richard Snively, 724 Leshar Ave., Waynesboro, Penna.
KIC2881 Mike Ripski, 72 Mooney Rd., Plymouth, Pa.
KIC3500 Ruthie Bopp, 350 W. 5th St., Lewistown, Pa.
KIC7539 Kevin Parris, 132 Cantwell Dr., Buffalo, N. Y.
KID0007 Fred Martz, Davis-Lane Speedway, Hustontown, Pa.
KID0186 Kathy Reshtar, 102 1/2 Walnut St., Binghamton, N. Y.
KID0696 Pat Norton, 3 Wheeler Ave., Cortland, N. Y.
KID2617 George Thayer, 62 Clinton St., Salamanca, N. Y.
KID3725 William Walters, 4th Ave. & Decker St., Monongahela, Pa.
KID4563 Pete Gabrielli, 751 Parsells Ave., Rochester, N. Y.
KID5293 George Gould, Box 42, Hudson Falls, N. Y.
KID5869 Robert Kolock, 844 Taylor Rd., Hamburg, N. Y.
KID5968 John Norman, Box 249, Watkins Glen, N. Y.
KID6004 Tony Kogut, Frankfort 2, N. Y.
KID6303 Ted Bluey, 422 S. Fifth St., Jeannette, Pa.
KID6356 Roscoe Harrington, 5 Schuyler St., Hudson Falls, N. Y.
KID6623 George Kline, 508 Monroe St., Jamestown, N. Y.
KID7164 Lyle Powell, Welch Road, Geneva, N. Y.
KID8232 Roy McGregor, R. D. 2, Central Square, N. Y.
KID9968 Edwin Kamerer, 715 Millcreek Rd., Johnstown, Penna.
KIE0296 Gerald Knouff, 507 East High St., Ebensburg, Pa.
KIE0628 Al Gullyer, R. D. 3-Box 392, Coraopolis, Pa.
KJH0080 Robert Grubbs, R.F.D. 3, Winston-Salem, N. C.
KJ10777 John White, 311 Owen Ave., Elmira Heights, N. Y.
KJ11072 Len Siedinski, 18 Ames Ave., Tonawanda, N. Y.
KJ11893 Andy Denko, 66 Monroe St., Saratoga Springs, N. Y.
KJ12293 Frank Dykeman, 339 Harter St., Herkimer, N. Y.
KJ12342 Fenton's Electrical, 125 A-W Lake Rd., Penn Yan, N. Y.
KJ12543 Jerry Shawwers, 103 Lauch St., Beaver Falls, Pa.
KJ12623 Dave Jensen, 440 Walker Rd., Walker, N. Y.
KJ13033 Eugene Jackson, 896 Blanchard Ave., Chambersburg, Pa.
KJ13114 Walter Bourne, 184 Ogden Center Rd., Spencerport, N. Y.
KJ13337 Stanley Pene, 1524 Mt. View Ave., Utica, N. Y.
KJ13461 John Garzel, Box 286, Austin, Penna.
KJ13462 Maurice Wykle, P.O. Box 191, Bradford, Pa.
KKA0095 Dick Trapp, Box 259, Stafford Springs, Conn.
KKA0608 Sandy Lemoine, 24 Noble St., Springfield, Mass.
KKA0658 Jerry Cote, 105 Old Walpole Rd., Keene, N. H.
KKA1333 Johnny Williams, 60 Cornub St., Lynn, Mass.
KKA1362 Chet Decker, Dark Harbor, Maine
KKA1485 Wendell Dashno, 14 S. Elm St., Albans, Vt.
KKA1997 Jim McSwain, RFD 2 Windsor, Vt.
KKA2191 Alvin Arthur, P.O. Box 27, South Weymouth, Mass.
KKA3002 Charles Henriksen, R. R. 2, Senexet Rd., Woodstock, Conn.
KKA3088 John Myott, 16 Washington St., Westfield, Mass.
KKA3124 Sidney Cheney, 37 School St., South Portland, Maine
KKA4210 Dick Clogston, Starks, Maine
KKA5021 Wendell Palmers, West Peru, Maine
KKA5072 Bob Knowlton, 166 Pleasant St., Otter River, Mass.
KKA5305 Chase's Engraving, 175 Kitemang Rd., Uncasville, Conn.
KKA5586 Trish Doyle, 379 Farmington Ave., Hartford, Conn.
KKA5683 Bod Holmes, King Road, Monson, Mass.

KKA5810 Kurt Fritzing, 22 Howard St., Reading, Mass.
 KKA6048 Mike Suintava, 198 Mercier Ave., Bristol, Conn.
 KKA6634 Gordon Newell, 18 Lilly St., Florence, Mass.
 KKA6698 Clarence Castor, 22 Cottage St., Keene, N.H.
 KKA6783 Frank Gumbus, 725 Stratford Rd., Stratford, Conn.
 KKA6885 William Lafond, Eagle Peak Rd., Pascoag, R.I.
 KKA6894 David Goodwin, 68 South Broadway, Lawrence, Mass.
 KKA7688 Bill French, 52 Pendexter St., Lynn, Mass.
 KKA7816 Anthony Silva, 9 Holway Ave., Provincetown, Mass.
 KKA8456 Joe Cambio, 31 Woodbury Ave., Norwalk, Conn.
 KKA8538 Bud Bayliss, 32 Garfield St., Calais, Maine
 KKA8764 Alan French, 470 Eastern Ave., Lynn, Mass.
 KKA8782 Don Russell, R.F.D. 1-River Rd., Bucksport, Maine
 KKA9350 Bob Christensen, 8 Eighth St., Newington, Conn.
 KKA9690 Peter Flynn, 212 Allen St., Springfield, Mass.
 KKA9788 Steve Kaplan, 91 Valentines St., New Bedford, Mass.
 KKA9907 Alfred Rawley, P.O. Box 426, Camden, Maine
 KKB0085 Richard Reynal, 82 Pendleton Rd., New Britain, Conn.
 KKB0087 Walter Lacey, 46 Oread St., Worcester, Mass.
 KKB0210 Ginny Weigel, 119 Shaw St., New London, Conn.
 KKB0348 Gary Marsh, RFD 1-Box 159, Lebanon, N.H.
 KKB0463 Steve Baranowski, 46 Joseph Rd., Naugatuck, Conn.
 KKB0552 Dick Waldrons, Spruce Head, Maine
 KKB0712 Steve Chmura, 268 Parker St., Indian Orchard, Mass.
 KKB0748 Tom Pluta, 31 Stony Hill Rd., Indian Orchard, Mass.
 KKB1195 Bud Geray, 183 East Main St., Chicopee Falls, Mass.
 KKB1522 Jim Milo, 26 Taunton St., Southington, Conn.
 KKB2011 Frank Miller, Thomas Circle, Southampton, Mass.
 KKB3063 Floyd Magmano, 136 Liberty St., Middletown, Conn.
 KKB3393 Henry Lemay, 34 Center St., Lawrence, Mass.
 KKB3548 John Monaco, 118 Ledgcrest Ave., New Britain, Conn.
 KKD0117 Dan Weggeland, 173 Madison Ave., Morristown, N.J.
 KKD0349 Jack Golden, 5025 Broadway, N.Y.C., N.Y.
 KKD0491 Mike Kaplan, 37 Fairview Terrace, Maplewood, N.J.
 KKD1177 Christopher Ordal, 5 Shelley Rd., Short Hills, N.J.
 KKD1311 Don Brandt, 1 Farmstead Rd., Short Hills, N.J.
 KKD1553 Norm Schweitzer, 99 Featherbed Lane, Bronx, N.Y.
 KKD1946 Allen Neely, 90-26 215 Place, Queens Village, N.Y.
 KKD2495 Jay Dubner, 1072 Ruth Place, North Bellmore, L.I., N.Y.
 KKD2679 Charlie Schmeltz, 9 Middle Rd., High Falls, N.Y.
 KKD2992 Edward Litke, 18 East Main St., Beacon, N.Y.
 KKD3296 George Masny, 299 E. 8th St., New York, N.Y.
 KKD3429 Cliff Share, 132 Greenway, Albertson, L.I., N.Y.
 KKD4711 Norman Strells, 165 Lehigh Ave., Newark, N.J.
 KKD6219 Bob Reedy, 349 N. Boston Ave., N. Massapequa, L.I., N.Y.
 KKD6253 Ronnie Bloom, 1212 North Pierce Ave., North Bellmore, N.Y.
 KKD6257 Gary Epstein, 1252 N. Pierce Ave., No. Bellmore, N.Y.
 KKD6389 Jean DuBois, R.F.D. 4-Chestnut Hills, Middletown, N.Y.
 KKD6477 Mitch Pomerantz, 439 Hawthorne Ave., Newark, N.J.
 KKD6535 Steve Ternlund, 521 East 35 St., Brooklyn, N.Y.
 KKD6776 Edward Nowak, 162 Shaker Rd., Albany, N.Y.
 KKD7398 Vera Leitans, 246 Second St., Alb., N.Y.
 KKD7499 Norman Bernstein, 90 Redwood Lane, Massapequa Park, N.Y.
 KKD7623 Vinny Cavicchi, Lake Valley Rd., RFD 1, Morristown, N.J.
 KKD7750 Joel Fishman, 1810-80th St., Brooklyn, N.Y.
 KKD8046 Ellen Sonkin, 246-15 57 Dr., Douglaston, N.Y.
 KKD8372 Mike Mazzone, 438 Livingston Ave., Albany, N.Y.
 KKD8811 Gino Pezzella, 853 Flatbush Ave., Brooklyn, N.Y.
 KKD8859 Charles McNally, 36 Marble Hill Ave., New York, N.Y.
 KKD9403 John Allen, P.O. Box 127, Park Ridge, N.J.
 KKD9486 Willie Bergman, 248-02 76th Ave., Bellerose, L.I., N.Y.
 KKD9511 Mitch Zimmer, 1213 East 83rd St., Brooklyn, N.Y.
 KKD9780 Steve Szymanski, R.D. 1-Box 52, Kingston, N.Y.
 KKD9884 Mitchel Gruck, 925 Warring Ave., Bronx, N.Y.
 KKG0046 Ira Pitel, 17 North State St., Vineland, N.J.
 KKG0335 Larry Love, East Landis Ave., Vineland, N.J.
 KKG0371 Ken Yost, Sunset Lake Road, Newark, R.D. 1 Del.
 KKG0930 Lee Keen, South Chestnut St., Elverson, Penna.
 KKG0960 Robert Ream, 608 High St., Lancaster, Pa.
 KKG1063 Edw. Stone, R.D. 3, East Stroudsburg, Pa.
 KKG1268 Ralph Hunsinger, 891 N. Adams St., Pottstown, Penna.
 KKG1280 Mary Diehl, 800 Mohican St., Bethlehem, Pa.
 KKG1761 The Axe's, 218 S. Hawthorne St., York, Pa.
 KKG2520 Norman Betty, 3801 Newport Gap Pike, Wilmington, Del.
 KKG2712 Claude Dye, R.D. 3, Pottstown, Pa.
 KKG3061 Ralph Stark, 146 Grape St., Reading, Pa.
 KKG3229 Don Schmitt, Box 14, Gettysburg, Penna.
 KKG3920 Ruddy Freimann, 47 Barto Rd., Bally, Pa.
 KKG3924 C.F. Koehler, 1015 Pennsylvania Ave., Prospect Park, Pa.
 KKG3987 John LeMay, 28 E. Water St., Gettysburg, Pa.
 KKG4762 Charlie Stauffer, R.D. 1, Holtwood, Pa.
 KKI0503 Tim Aaron, 116 Wilmont Ave., Cumberland, Md.
 KKI1526 John Warrenfeltz, 1005 Bramly Court, Hagerstown, Md.

KKI2000 Tom Termini, 4611 Langdrum Lane, Chevy Chase, Md.
 KKI2063 Joe Mory, 2501 Washington Blvd., Balto., Md.
 KKI2263 Sonny's Sundries, 767 South Division St., Salisbury, Md.
 KKI3315 Bryan Walters, 1520 Quincy Ave., Falls Church, Va.
 KKI3745 Don Petri, 2712 White Ave., Balto., Md.
 KKI4003 Jeff Loveless, Box 112, Owings, Md.
 KKK0745 Jimmy Chocklett, 504 Denby St., Wilson, N.C.
 KKK2869 Kelly Howard, 415 Broad St., Oxford, N.C.
 KKK4396 Lynn Bailes, 3033 Maywood Rd. S.W., Roanoke, Va.
 KKK4428 Jack Lineberry, Rt. 2-Box 250, Glen Allen, Va.
 KKK4966 Jeff Hardee, 2530 Sunset Ave., Greenville, N.C.
 KKK5474 Bill Riggelman, Edom, Virginia
 KKK5782 Richard Mitchell, 403 E. Delaware, Draper, N.C.
 KKK6182 Gordon Gallahan, 211 Butler Rd., Fredericksburg, Va.
 KKK6552 Johnny Ruffy, Route 2, Taylorsville, N.C.
 KKK6606 Rob Dalton, Bland, Va.
 KKK7323 Carolyn Riggelman, Edom, Va.
 KKK7365 Bob Crumpler, Rest Haven, Dum Rd., Fayetteville, N.C.
 KKK7367 Jim Wilhelm, 729 Pee Dee Ave., Albermarle, N.C.
 KKM0562 Bill Gibson, P.O. Box 2004, Macon, Ga.
 KKM0735 Ebbie Odum, 140 Dupree St., Chester, S.C.
 KKM0911 Grady Hill, 205 Walnut St., Union, S.C.
 KKM1246 Delmar Gilbert, P.O. Box 1991, Chattanooga, Tenn.
 KKM2213 Lee Harvey, 2478 Sharronda Dr. N.E., Atlanta, Ga.
 KKM2422 Charles Farmer, 401 Beets St., Clinton, Tenn.
 KKM4156 Fred Monday, 77 Brownwood Ave., Asheville, N.C.
 KKM4178 Bernie Broster, 150 Thronton Ave., Cedartown, Ga.
 KKM4430 Wayne Morris, 630 Vinton St., Erwin, Tenn.
 KKM7129 Carl Stapleton, Rt. 1-Box 179-N, Helena, Ala.
 KKM7376 Donald Wilson, 1529 Bush Blvd., Birmingham, Ala.
 KKM7447 Robert Carlton, 506 E. General St., Tullahoma, Tenn.
 KKM7482 Charles Cromer, Rt. 1, Box 282A, Newberry, S.C.
 KKM9147 John Bessinger, 1 Apple St., Barnwell, S.C.
 KKN0206 Larry Murdock, 408 West Lee Ave., Enterprise, Ala.
 KKN0300 Steve Masten, P.O. Box 4, Boone, N.C.
 KKN0628 Glenn Owens, Route 3, Newport, Tenn.
 KKN0793 G.W. Page, Box 398, Lake View, S.C.
 KKN0882 F.L. Parmenter, 229 Ridgeway Rd., Hueytown, Ala.
 KKN1274 Bob Still, Box 543, Barnwell, S.C.
 KKN1717 Bud Carpenter, Route 3, Box 521A, Erwin, Tenn.
 KKN2781 George Williams, Walters St., Plains, Ga.
 KKP1393 Jeep Rhoads, Rt. 6-Box 203, Lakeland, Fla.
 KKP1645 Henry McLeod, P.O. Box 126, Perry, Fla.
 KKP2504 Harry Nechetsky, 133 N. Partin Dr., Niceville, Fla.
 KKP3015 Patrick Flynn, Cherry Plaza Hotel, Orange County, Florida
 KKP3209 Bill Martin, 1301 Pine Ridge Dr., Holly Hill, Florida
 KKP4124 Gene Pairgin, 5111 68th St. North, St. Petersburg, Fla.
 KKP4260 Clark Dickinson, Rt. 2-Box 50, Perry, Fla.
 KKR0741 Clifford Pittman, P.O. Box 105, Tommonen, Miss.
 KKR2520 Walker Winans, 667 Laurel St., Baton Rouge, La.
 KKR2939 Bobby Sanford, 111 King St., Columbus, Miss.
 KKR2942 Wayne Williams, 1305 Marquette, Tupelo, Miss.
 KKR3158 Robert Choate, P.O. Box 314, Simsboro, La.
 KKR4584 Brent Stephenson, 7138 Sevenoak Ave., Baton Rouge, La.
 KKT3677 Jerry Smith, B-4-Z College View, College Station, Tex.
 KKV2029 Dave Fair, 1911 Vincent, Brownwood, Texas
 KKV3836 Clarence Norton, 512 W. Broadway, Longview, Texas
 KKK2733 Richard Starr, 10081 Gramercy Pl., Riverside, Calif.
 KKK2834 Bessie Strainline, 1171 W. Miracle Mile, Tucson, Ariz.
 KKK5201 Dale Fletcher, 54728 El Prado Trail, Yucca Valley, Calif.
 KKK5603 Steve Nelson, Box 747, Buellton, Calif.
 KKK6042 Curly Bartlett, 123 W. Branch St., Arroyo Grande, Calif.
 KKK6329 George Bright, 3895 Monroe, Riverside, Calif.
 KKK6641 Harvey Ingersoll, 12859 Sherman Way, No. Hollywood, Calif.
 KKK7083 James Fuller, 405 Fillmore St., Taft, Calif.
 KKK7214 Cliff Heron, 1458 Mulberry St., Riverside, Calif.
 KLA0472 Charley Lively, 1708 Midfield Ave., San Jose, Calif.
 KLA1014 Bob Balanco, 2183 Altamont Rd., San Leandro, Calif.
 KLA2692 Jeff Stern, 2307-IJ-Pauline Dr., San Jose, Calif.
 KLA3491 Russ Gevertz, 1982-44th Ave., San Francisco, Calif.
 KLA3648 Jim Cox, 1865 Michigan, Stockton, Calif.
 KLA5269 Carroll Hatchell, 2222 Sacramento St., Vallejo, Calif.
 KLA6402 Bruce Farley, 3679 Bryant St., Palo Alto, Calif.
 KLC1458 Ben Kuehn, 19337 N.E. Gilsan, Portland, Oreg.
 KLD0462 Hubert Ingersoll, 548 Edith, Walla Walla, Wash.
 KLD0953 Keith Howe, 9001 - 16th Ave. S.W., Seattle, Wash.
 KLD1817 Don Fletcher, 3432 So. 180 Pl., Seattle, Wash.
 K LH4947 Steve Kirkpatrick, 5633 W. 18th St., Topeka, Kansas
 KLH6583 William Royal, Syracuse, Nebraska
 KLH7398 Bob Carr, 1507 Jefferson, Great Bend, Kansas
 KLH7458 Chuck Stagner, 3833 East 68th St., Kansas City, Mo.
 KLH8133 Norman Royal, Syracuse, Nebraska
 KLH9131 Ron Slattens, Bethany, Mo.

KLJ0477 Ted Hesselstines, 3829 E. 42 St., Des Moines, Iowa
 KLI0919 Bob McGuire, 927 N. Madison, Topeka, Kansas
 KLI0255 Bob Pierce, 182nd St. -Box 382, Lansing, Ill.
 KLJ0404 Don Thielsen, 2803 Iroquois Trail, McHenry, Ill.
 KLJ1614 Jack Llewellyn, 112 S. Griffin, Danville, Ill.
 KLJ2067 Butch Felmeten, 4401 West Shore Dr., McHenry, Ill.
 KLJ2946 Harold Bjorkquist, 8878 South 84th St., Franklin, Wisc.
 KLJ3382 Earl Gordon, 419 W. Grand Ave., Decatur, Ill.
 KLJ3945 William Turner, 1728 Ford Ave., Owensboro, Ky.
 KLJ3893 Eva Luströ, 1440 W. Fullerton Ave., Chicago, Ill.
 KLJ4006 Al Waldsmith, 2710 W. State St., Rockford, Ill.
 KLJ4663 Bev Chappell, 3644 E. Minnie St., Decatur, Ill.
 KLJ6057 Myrde Hittle, 1601 So. 4th St., Richmond, Ind.
 KLJ6355 Ernie McMichael, 2310 W. 28th, Muncie, Ind.
 KLJ6791 Lou Rubenstein, 9901 Calhoun Ave., Chicago, Ill.
 KLJ6815 Liz McMichael, 2310 W. 28th, Muncie, Ind.
 KLJ7778 Harold Thompson, 731 East Jefferson, Chrisman, Ill.
 KLJ8181 Bob Bruce, Sadorus, Ill.
 KLJ8373 Guy Bolin, Rt. 1, Plainfield, Ill.
 KLJ8983 Joe Hagan, 2027 East 21st St., Owensboro, Ky.
 KLJ8721 Ray Bruce, Sadorus, Ill.
 KLJ9180 Jerry Gaughan, 1826 Davis Ave., Whiting, Ind.
 KLJ9236 Jane Bachman, 2725 Vinton Ave., Rockford, Ill.
 KLK1217 Dick Fairheart, 909 North Bentley, Marion, Ill.
 KLK1408 Pat Adams, 509 May St., Sumner, Ill.
 KLK1581 Frank Hawley, 2313 Johnson St., Keokuk, Iowa
 KLK1975 W. H. Willett, Lewisport, Kentucky
 KLK2079 Russell Smith, 107 So. State St., Louisville, Ky.
 KLK2149 Rexford Niccum, R. F. D. 1, North Manchester, Ind.
 KLK3190 Steve Scherer, 103 West 4th St., Fowler, Ind.
 KLK3310 Tom Wells, 911 Oakley St., Evansville, Ind.
 KLK3619 Matt Loeffler, 2169 South 64th St., West Allis, Wisc.
 KLK4399 Virgil Watts, 4255 E. Lincoln, Decatur, Ill.
 KLK4537 Clinton Whitney, R. R. 2, Warsaw, Ind.
 KLK4588 Ruth Copples, 1749 W. Ravina Park Rd., Decatur, Ill.
 KLK4958 Jesse Wade, 224 W. Elm St., Chillicothe, Ill.
 KLK5585 Lloyd Aumock, 840 1/2 E. Pleasant St., Freeport, Ill.
 KLK6316 Paul Vargyas, 119 South McKinley, Warsaw, Ind.
 KLK6983 Jim Schmitz, Route 51 South, Pana, Ill.
 KLK8405 Betty Dungan, 208 N. Main St., Dunkirk, Ind.
 KLK9539 Mike Geiger, Box 83, Culver, Ind.
 KLM2786 Bob Starkey, 2834 Berrell Ave., Columbus, Ohio
 KLM3893 Robert Elam, 714 Livingston, Pontiac, Mich.
 KLM4446 Scott Wittenburg, 3037 North Hill Rd., Portsmouth, Ohio
 KLM4842 Hessel Hazen, 231 North Mead St., Zanesville, Ohio
 KLM5233 Cecil Campbell, 5687 Eldridge, Pontiac, Mich.
 KLM6546 Mike Craft, 510 Miller Ave., Hinton, W. Va.
 KLM7311 Richard Heysek, 2430 West Sprague Rd., Parma, Ohio
 KLM7450 Bill Piper, Route 5-Box 414, Swanton, Ohio
 KLM7508 Barb Rutkowski, 14942 Kilbourne, Detroit, Mich.
 KLM7763 Jim Warner, 836 Pensacola, Pontiac, Mich.
 KLM9197 Bob Fritz, 801 Chestnut St., Coshocton, Ohio
 KLM9517 Jim Rollins, 805 W. Lawrence Ave., Charlotte, Mich.
 KLN0934 Leonard Beaudry, 32821 River Rd., E. Rockwood, Mich.
 KLN1595 Florence Shane, Route 1, Lakeville, Ohio
 KLN1831 Roy Bullock, 5th Street Rd., Corbin, Ky.
 KLN2595 Bob Levy, 2728 Burnaby Dr., Columbus, Ohio
 KLN3731 Norm Sieggreen, 1532 N. Bond, Saginaw, Mich.
 KLN3897 Jerry Harris, 651 Cove Road, Weirton, W. Va.
 KLN4091 Clare Wilson, 94 E. Colgate, Pontiac, Mich.
 KLN4366 Grant Bryan, 669 Harvard St., Akron, Ohio
 KLN4587 Bud Felix, 2825 Corinthia St., Rochester, Mich.
 KLN4898 Ernie Zam, 2737 Northvale Rd., Oregon, Ohio
 KLN4913 Bob Vance, 2200 Fulton Rd., Cleveland, Ohio
 KLN5237 Ken Hess, 2005 Beal Ave., Lansing, Mich.
 KLN5410 Bill Schmidt, 734 N. 11th St., Miamisburg, Ohio
 KLN5649 Roy Wallington, Route 1-Box 19, Augres, Mich.
 KLN5768 Jim Noonoy, Falling Rock, West Virginia
 KLN5784 Ellen Bryan, 669 Harvard St., Akron, Ohio
 KLN5795 Mike Salzman, 2854 Lincoln St., Lorain, Ohio
 KLN5848 Al Willis, 6497 Graham, Pontiac, Mich.
 KLN6401 Don Goretzki, 605 McEwen St., Sandusky, Ohio
 KLN7718 Steve Wenger, 526 46th St., Sandusky, Ohio
 KLN7841 Grace Beaudry, Route 1, Rose City, Mich.
 KLN8383 Jim Samuel, 3503 Orchard, Portsmouth, Ohio
 KLN8462 Earl George, R. D. 5, Salem, Ohio
 KLN8807 Tom Wood, 1795 Kahn Ave., Hamilton, Ohio
 KLN8974 Don Clink, Route 1, Lindsey, Ohio
 KLN9152 Carl Lockhart, Box 28, Coolville, Ohio
 KLN9288 Bill Roys, N. 17 Baseview Trailer Ct., Emerado, S. Dak.
 KLN9798 Gene Neumann, Box 294, Bucyrus, Ohio
 KLO0660 Earl Sayres, P. O. Box 83, Marietta, Ohio
 KLO0957 David Curtis, 505 Miller Ave., Hinton, W. Va.
 KLO0175 Paul Manville, 1736 Lombardy, East Highland, Mich.
 KLP0290 Norm Dill, 1025 Powell Ave., Erie, Pa.
 KLP0319 Pete Hons, 614 Main St., Portage, Pa.
 KLP1619 Joe Martin, 500 1/2 Porter St., Watkins Glen, N. Y.
 KLP2186 Carl Mollitt, 123 Dennison St., Wyoming, Pa.
 KLP2358 Donald Miles, 1015 Dryden Rd., Ithaca, N. Y.
 KLP2753 Horace Morath, 2380 Woodard Rd., Elma, N. Y.
 KLP2846 Harold Greba, 610 Henry Lane, Irwin, Penna.
 KLP3111 Paul Miller, 8 Clark St., Canton, N. Y.
 KLP3221 John Collins, 229 Maryland Ave., Erie, Pa.
 KLP3284 James Phillips, 599 West 8th St., West Wyoming, Pa.
 KLP3496 Jerry Babcock, Abbotts Corners, R. F. D. 1, Cuba, N. Y.
 KLP4213 Dennis Cray, 3750 W. 10th St., Erie, Pa.
 KLP4360 Earl Bonenblust, 515 Whiting Rd., Webster, N. Y.
 KLP4695 Dan Cunningham, 185 Ogden Center Rd., Spencerport, N. Y.
 KLP4743 Alvin Wenrich, 316 N. High St., Selingsgrove, Penna.
 KLP5005 Bud Fowkes, 1031 5th Ave. -Box 261, Duncansville, Pa.
 KLP5102 Bob Vann, 102 Haller Blvd, Ithaca, N. Y.
 KLP5525 Bonnie Beeke, 11 Maple Dr., Bath, N. Y.
 KLP5686 Charles Johnson, 332 Huron Ave., Renovo, Pa.
 KLP5748 Butch Frazier, Halfacre, R. D. 3, Auburn, N. Y.
 KLP6039 William McKenna, 1354 Davis St., Elmira, N. Y.
 KLP6626 Wallace Nolen, 12 Chase St., White Plains, N. Y.
 KLP6639 Don Berman, 121 W. Ross St., Wilkes Barre, Pa.
 KLP7290 Korby, Box 241, Frankfort 2, N. Y.
 KLP7326 Robert Hurley, R. D. 1 -Waynesboro, Pa.
 KLP7578 David Moss, P. O. Box 61, Endicott, N. Y.
 KLP7703 Bob Smith, Route 2, Lisbon, N. Y.
 KLP7749 Ray Bronder, 416 9th St., Monessen, Pa.
 KLP7848 Bryan May, 147 Old River Rd., Wilkes-Barre, Pa.
 KLP7909 Al Gutfrucht, 248 Spencer Rd., Rochester, N. Y.
 KLP7977 Jim Pula, 37 Clinton St., New York Mills, N. Y.
 KLP8083 William Davidson, 26 Knight St., Glens Falls, N. Y.
 KLP8105 Alan Rubin, 12 Grandview Terrace, Cobleskill, N. Y.
 KKP8337 Dick Burgstrom, 7 Woodward Dr., Fredonia, N. Y.
 KLP8451 Lafayette Young, 424 Grant St., Ogdensburg, N. Y.
 KLP8509 Leonard Doty, Monessen, Pa.
 KLP8570 Dick Moriarty, 220 Saint Clair Ave., Renovo, Pa.
 KLP8791 Jim Smith, R. D. 3, Fort Plain, N. Y.
 KLP8809 LaRee Shumaker, 147 Greenbrier Dr., Carnegie, Penna.
 KLP9113 Joe Jones, 21 West Elm St., Wilkes-Barre, Pa.
 KLP9351 R. Trull, 25 DeStefano Ave., Amsterdam, N. Y.
 KLP9557 George Booth, 971 Sweeney St., North Tonawanda, N. Y.
 KLP9618 Bill Lohnes, Box 176, Round Lake, N. Y.
 KLP9656 Irvin Kimmel, P. O. Box 14, Tire Hill, Pa.
 KLP9751 Vince D'Emilio, 99 Warren St., Glens Falls, N. Y.
 KLP9765 Lewis Valachovic, 110 Burton St., Johnstown, N. Y.
 KLP9773 Ron Crown, 764 Merchants Rd., Rochester, N. Y.
 KLP9838 Phil Tammenbaum, 35 Sharpe St., Kingston, Pa.
 KLP9936 Eugene Pratt, 15 Quarry Crossing, Hudson Falls, N. Y.
 KLP9973 Kitten Beck, 6 North Water St., Selingsgrove, Pa.
 KLQ0318 William Stokes, R. F. D. 1, Bliss, N. Y.
 KLQ0391 Jim Conners, 10 Tobes Hill, Hornell, N. Y.
 KLQ0457 Charles Goughnour, 207 Coldren St., Johnstown, Pa.
 KLQ1132 Gerald Bach, 206 Ottawa St., Johnstown, Pa.
 KLQ1294 Koffeehound, Box 241, Frankfort, N. Y.
 KLQ1560 Jud Kurlancheck, 242 East Dorrance St., Kingston, Pa.
 KLQ1603 Jake Guthridge, 104 N. Main St. Box 338, Yeagertown, Pa.
 KLQ1624 George Thayer, 62 Clinton St., Salamanca, N. Y.
 KLQ1985 Ronnie O'Neill, 72 Academy St., Wilkes-Barre, Pa.
 KLS0054 Tom Grimke, Box 485, Wahiawa, Hawaii
 XM112045 Lloyd Tait, 2088 E. 26th Ave., Vancouver, B. C.
 XM33818 Douglas King, Box 1289, Estevan Sask., Canada
 XM33481 George Emmel, Box 200, Torquay, Sask., Canada
 XM412800 Skippy Massam, 66 Guthrie Ave., Toronto, Ont., Canada
 XM431311 Peter Walton, 421 Lodor St., Ancaster, Ont., Canada
 XM49405 John Burnup, 926B Cummings Ave., Ottawa, Ont., Canada
 XM52477 David Pinsky, 4895 Bourret Ave., Montreal, Que., Canada
 XM522987 Lorne Rother, 5590 BeamInster Pl., Montreal, Que., Canada
 XM56066 Gilles Petit, 409 St-Joseph, La Tuque, P. Q., Canada
 XM65140 Vaughan DeMerchant, P. O. Box 13, Perth, N. B., Canada
 Cent. 2340 Dave Coyle, 602 Elm, Coffeyville, Kansas
 North3020 Robert Ream, 608 High St., Lancaster, Pa.
 North3206 Hot Rod, Box 824, Utica, N. Y.
 North3300 Tom Bolling, 233 Temple St., Fredonia, N. Y.
 North3438 Dick Carpenter, Box 108, Newfield, N. Y.
 North3558 George Masny, 299 E. 8th St., New York, N. Y.
 W8CJP Ruth Williamson, P. O. Box 1, Ashley, Ohio
 WMK2R George Masny, 299 E. 8th St., New York, N. Y.
 WPEOHMF Bruce Kirkpatrick, 5633 W. 18 St., Topeka, Kans.
 WPE1FNZ Peter Kasnet, 133 Lynn Shore Dr., Lynn, Mass.
 WPE2JPN George Masny, 299 E. 8th St., New York, N. Y.
 WPE2LUX Komical Kube, Box 241, Frankfort, N. Y.

WPE2NHW Gerry Schechter, 3535 Kings College Pl., Bronx, N.Y.
 WPE3AVW Richard Snively, 724 Leshar Ave., Waynesboro, Pa.
 WPE3FSC Robert Ream, 608 High St., Lancaster, Pa.
 WPE3FSN Andrew Cwalina, 1674 W. Chestnut St., Shamokin, Pa.
 WPE6FOS Jim Hope, 356 N. Fuller Ave., Los Angeles, Calif.
 WPE6ETT Harry Okey, P.O. Box 1526, La Jolla, Calif.
 VE1MKID Allison Capson, 644 Rothesay Ave., St. John, N.B. Canada
 VE1PE3L Gregg Calkin, 174 Waterloo St., St. John, N.B. Canada
 VE1PE6X Andy McLellan, P.O. Box 631, St. John, N.B. Canada
 VE3PE1SM Bob Wood, Box 67, Tilbury, Ont., Canada
 RA. 1061 Les Cufflin, c/o B. Morehead, Rt. 2-Box 412, Shelby, N.C.
 JA1-2845 Isao Numa, 1-281 Setagaya, Setagaya-Ku, Tokyo, Japan
 G-9810 Mike Bland, Darlington Rd., Basingstoke, Hants., England
 OH2PE1L Tom Lehtio, Virkky Sunis-Hagen, Finland
 OH2-722 Torsten Soderstrom, Ekenas, Finland
 Central Printing, 920 Vandeventer, Fayetteville, Ark.
 Jack Allen, 203 Ave F, Brooklyn, N.Y.



WASHINGTON OUTLOOK

Continued from page 41

The FCC stayed until further notice its order to revoke the license of Thomas L. Brock, 6W-6559, Ft. Payne, Ala.

Representative Walter Rogers (Democrat of Texas), who last year came out against the FCC being allowed to charge license fees without specific approval to do so, reintroduced his bill for consideration by the new Congress. The bill got nowhere last year, and when Rogers asked the FCC to hold off on the license fees until Congressional action, they told him "no soap." Many CB'ers have been confused into thinking that Rogers is against license fees, he is *not*. He just wants to get the FCC to get Congressional authority to collect them; something which they presently do not have because they do not feel it is necessary.

Representative J. Arthur Younger (Republican of California) also reintroduced his bill which would eliminate the need for CB and other "Safety and Special Service" radio stations to renew their licenses.

The Trico 11 Meter CB Radio Club, Inc., Redwood City, Calif., petitioned the FCC along similar lines as the American Citizens Band Association, which was discussed in S9 several issues back.



BKG4303 RIDES AGAIN

Continued from page 7

Well, it was a very sad day as we kicked his business out of the window—it galled me to have this seedy type of advertising placed in front of S9's readers, most of whom have come to accept things in S9 pretty much at face value. Many of our readers are new on the band and might have very easily gotten themselves into serious trouble with these "very tempting" products.

Oh, you'll be interested to know that the advertiser in question promptly took his rejected ad to *CB Magazine*, where his pitch for CB'ers to use his illegal and interference causing products was welcomed with open arms.

So S9 stands sadder, wiser, and a little bit poorer for our experience; but at least we've been able to straighten out a potentially ugly situation and have (hopefully) saved our good read-

ers from possible hardship. What's the name of the advertiser? That doesn't make much difference now, he knows who he is, several dozen S9 readers who wrote to us know, and so do the people at *CB Magazine*.

SIGNAL SPRINKLER?

Several readers wrote to tell me that our "Signal Squirter" antenna (December issue) was possessed of an annoyingly high SWR, and some went so far as to indicate that it would have been better entitled "The Signal Sprinkler" because it also left something to be desired in the gain department.

We did some overtime work with a slide rule and have worked out revised dimensions which should produce better results than the original ones given in the article. First, the "short" side of the antenna remains 8'10", as originally stated

in December. The "long" side of the Mark I version should be shortened to 99'4" to improve the antenna. The Mark II can have its "long" side cut to 165'6", and the Mark III to 231'9".

FREE QSL'S ANYONE?

Lilia just dragged in a big carton of slightly used QSL cards which we have been building up from old "Cardswappers" columns—she says that we have been giving them away to needy looking CB'ers who show up at the office asking for them. Nevertheless, there are far more piled up than we could ever hope to dispose of in this manner—they are creating a storage space problem.

Any *subscribers* who want some of these cards can send me a stamped and self addressed envelope and I'll stuff as many in as will fit—with a maximum of 10 to a customer. I suggest that you send an envelope with at least 10¢ postage on it, and large enough in size to accommodate 10 cards. Remember, *subscribers only*.

In the event that we receive so many requests that we run out of cards, we'll hang onto your envelope until we can fill your request from a forthcoming column's intake of cards.



ANTENNAS

Continued from page 59

not use the regular CB antenna for receive only? The big antenna is generally much superior to the low-power 5-foot whip. And it's already up there on the pole.

The problem of using a Part 15 handie-talkie, for example, is easiest to solve. Just mount its 5-foot whip as high as possible and use the small rig for transmit only. Reception is done on the CB receiver and its efficient antenna. One consideration is interaction between the two antennas. This is

solved by keeping them as far apart as possible.

Where operation will be done with a 2-power rig—that is, one that can perform in either service—a changeover switch could be used. As shown in the drawing, the two coax cables are led down from the antennas and tied into a coax antenna switch. (One example in the catalogs is a unit made by International Crystal.) In operation, the switch is thrown from send to receive, which reconnects the rig from small to large antenna.



KYLES KORNER

Continued from page 57

openers operate in the 11-meter band under Class C CB licenses. Why can't I adapt my CB rig to turn on a door opener, and have all the convenience while saving myself some cash?

—E.S., Paramus, N.J.

Well, it's an interesting idea, at least. It might not be legal, since the purpose of a Class D license is for *communication* and the Class C license is supposed to be used for remote control, but there's a chance it might be inside the pale. It would have to operate in such a manner that it didn't cause any interference to communications, and would definitely have to be a secondary use of the equipment, even to have that

chance.

One way you could do it would be to install a selective-calling accessory on your auto rig, and put a receiver equipped with a matching selective-call unit in the garage. The receiver could be rigged to close a relay when the selective-call unit turned it on, by bringing a wire from the speaker around to the audio *ahead* of the calling unit so that the audio section would oscillate whenever the selective-call unit operated. The oscillation could then be used to trigger a sound-operated relay, which would in turn operate the door motors.

However, the bigger part of the cost of a radio control door opener is *not* the radio gear, but the motors and linkage necessary to operate the doors. These you would have to obtain anyhow. Of course, if you already have them, it might be worth while to try this system so that you would have only one gadget taking juice from the car battery instead of two. It ought to work, even if it doesn't save any money.

Which fills up the space again. While the pace is picking up somewhat in this, the third month of this department, I still have a few seconds free on the third Tuesday of each week in which I can look up the answers to one or two more questions from you eager S9 readers. Send 'em on, and if I can't find the answers on the third Tuesday I will find someone who can!



PATENT PENDING

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MOBILE ANTENNA MOUNT

FOR ANY C.B. OR HAM ANTENNA

\$8.95

POSTPAID

MODEL C103
STANDARD
BALL MOUNT

MODEL C750
¾" HOLE

MODEL C375
¾" HOLE

- ✓ NO BODY HOLES ARE NECESSARY
- ✓ FASTENS TO DECK LID IN MINUTES
- ✓ SUPERIOR GROUND PLANE EFFECT
- ✓ RADIATION EFFICIENCY INCREASED 100% OVER BUMPER TYPE MOUNTS
- ✓ CHROMED RIGID TEMPERED STEEL

SPECIFY MODEL AND/OR ANTENNA STYLE DESIRED WITH CHECK OR MONEY ORDER FOR \$8.95 (MICHIGAN RESIDENTS ADD 4% SALES TAX) SHIPPED PREPAID WITH MONEY BACK GUARANTEE. DEALER INQUIRIES INVITED.



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P. O. BOX 277 ALGONAC, MICHIGAN

CB CASEBOOK

by **LEE AURICK, KCD5514**

MT. PLEASANT RD. RFD 1
COLUMBIA, PA.

WOULD YOU LIKE TO READ ABOUT YOUR COMMERCIAL USE OF CB IN S9? IF SO, WRITE TO US.



"The newest aid in this valuable field trip program of teaching is CB radio. This was adopted in the summer of 1962 for the first time on an 8,000 mile trip to the north-west United States with three units."

"Before departure on a trip each travel unit is equipped with a CB set. The antenna is the rain gutter type. The power source is obtained by inserting the power cord plug into the cigarette lighter. The three pieces of equipment are selected on the basis of the facility and speed with which they can be installed or changed from one transportation unit to another. Since the transportation units are leased, the equipment cannot be permanently installed. About the maximum time to install a set and get it operational, is 5 minutes. This short period of installation is extremely important to us as we often use the sets on short trips, two or three times a week."

"Fully as important as rapid installation, is the facility of use for the individuals in each unit. Here, we need an easy set to adjust and control."

"On the trip, the sets are tuned in during the entire day when the group is traveling, although communication is not always taking place. The principal value to the student is to hear the voice of the instructor over the radio describing the features to be seen in a valley below, or the rock ledge on the right, or on the slope of the mountain directly ahead. Sometimes the features are natural, but at other times the works of man are just as important, although students observe most of the things to be seen after some comments by the instructor or they may have questions. This gives them the opportunity to ask questions. Here, CB

radio is most important."

"In practice, we use six different channels to prevent hogging of the time in any one particular channel. We use channels 2-7-9-11-14 and 19. Depending upon local conditions, we make our decision on which channels to use. We find great freedom of use in the West, but in large cities and in the East, it is difficult to find a channel that isn't used."

"In addition to the obvious value of lecturing about the landscape as you travel through it, we find CB radio valuable in a number of ways such as: convoying or directing cars through cities; directing convoy in country, where there are many unmarked roads; warning cars following of road hazards, traffic problems, or other features that might be of value to know."

"Where our principal function is for education by the most efficient means possible, we cannot deny that the radios help us learn, but also make our trip more pleasant. They become part of our routine quickly and, if one set is inoperative for a short time, it is catastrophic, or so it seems. In addition, we often find local CB operators exceedingly helpful with supplying information or telling us local interest items of value to us. We find we have a real use and need for them in our classroom on wheels. Everyone can sit in a theatre and see a film with sound. Our trips provide a moving landscape with sound as we travel."

Your reporter would like to learn of other applications for CB radio in the field of education. After all, we already have Educational TV. Does a channel for Educational CB sound too far fetched?

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 59 cannot vouch for the merchandise or services listed therein.

This company is looking for Ham & CB cartoon artists and idea personnel for a new product to be distributed shortly. \$10.00 per idea IF ACCEPTED. For information, write AMBRU PRODUCTIONS, 10 Burbank Street, Yonkers, New York 10710.

Attention CB Dealers, Installers before you buy citizen band radio equipment, check with us for the lowest wholesale prices and demonstrator plan, Twin-Tronics CB Center U.S.A. 1301 E. Indianola Ave., Youngstown, Ohio.

"QSL's. Top quality, reasonable price. Samples 20¢. CB Press, Box 281, Oak Park, Illinois 60303."

QSL CARDS—\$2.95 per 100, samples—10¢. Bill Orton, 905 Altamaha, Chattanooga, Tenn.

Quality QSL Cards Stock Line 500 for \$6.00—Deluxe Line 500 for \$9.50. Various Colors in ink or paper. Samples: 10¢. QSL Printing, Box 39022, Cincinnati, Ohio.

Emergency antenna CB Mobile performs like base. Erects to 32 ft. in few minutes. (Illegal except for emergencies.) Stores in car trunk. Complete with mast and coax. Only \$29.95 postpaid. South Lake Mfg. Co. Clermont, Fla.

"Generator Filters" 3-30 mcs. CB type \$2.50. 30-60 mcs. 6 meter type \$2.50. Voltage Regulator Filters \$2.50. Highest quality. Engineered Products Company, Springboro, Ohio.

POOR MAN'S INVESTMENT—The U.S. Mint in San Francisco was closed down in 1955—today its products are getting mighty scarce. Some "S" mint marked Lincoln pennies in circulated condition today sell for as much as \$57, \$65, even \$235. Here's your chance to invest a few cents towards the possibility of having a real winner in a few years. We have a limited supply of good condition "S" pennies and can offer them at only 5¢ each, or 25 for \$1. Please enclose self addressed, stamped envelope. Dates of our choice. Pay for your order with "Mercury" dimes and receive 3 "S" Lincolns for the price of 2. Write E. Steinhart, 5510 13th Ave., Brooklyn 19, N. Y.

The BIG Switch Is To 59

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20 CARDS
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10 FOR
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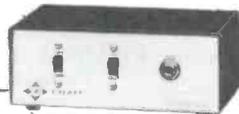
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Increases Range.

Boosts "Talk Power"—3 to 4 times. Prevents "Fading Out." CB'ers take FULL Advantage of their 5 watts.

SIMPLE-TO-INSTALL

Only
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At long last a TRUE compression amplifier—Guaranteed to Boost "Talk Power" for greater range. Prevents "Fading Out" and allows your signal to be heard when others are lost. Automatically amplifies the low levels of your speech allowing a more powerful — clear transmission and maximum use of your 5 watts. Adaptable to most CB and HAM, AM and SSB transmitters. Simple—easy to install. Uses 9-volt battery—(less battery). CB/HAM net \$24.95 Optional AC Supply \$6.95

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March 1965 • 69

ENGINEER WANTED

A progressive CB radio equipment manufacturer needs an Electronics Engineer. Prefers one with some experience in CB design and development. State age, education, experience and salary desired. Replies will be held strictly confidential. Write Box 72, % S9, 14 Vanderventer Ave., Port Washington, N. Y.

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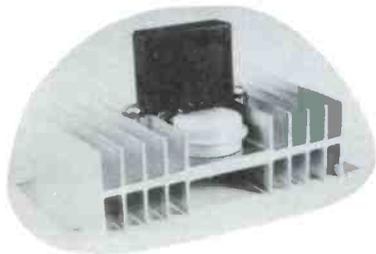
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HEY PUSSY CATS! Want a sneaky way to build up your card swappers collection? We will ship you 25 different cards for only \$1. No printers samples or junk, but REAL CB QSL's from all over, some actually signed by the ops. S. Nussbaum, 1440 54th St., Brooklyn, N. Y. 11219.

Howard West—Send me your address and I will send your QSL's.

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CB QSL's 3 & 4 colors, 100 \$2.00, samples dime. Garra, Lehighton, Penna.

PenVue swapping cards for everyone, especially CB "widows and widowers." Sample 10¢. Pen Vue, Lile Guill, Rustburg, Va. 24588.

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For Sale: Brand new Courier 23 still in factory carton. Purchased for \$189.50—sell for \$165.00 Cash or money order. Reason for sellings, Emergency Surgery, no insurance. B. H. Preston, KDE-4397, 804 Company St., Wetumpka, Ala. 36092.

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QSL's. The latest sensation, Monsters, plain, fancy and custom designs. \$2.50/100, samples 10 cents. Student Press, Box 42, Bethel, Kansas.

CB transmitters \$6.00. Other bargains, catalog 10¢. Vanguard, 190-48—99th Ave., Hollis, N. Y. 11423.

Free catalog: Wholesale electronic parts and equipment. Hundreds of bargains, Western Components, Box 2581, El Cajon, California.

We Pay For Your QSL, in two ways. First you get your own QSL in return and second, if you send a sizeable amount you are eligible for cards from other states, from our personal collection. Send to Irving, 56 Warren St., Ellenville, N. Y.

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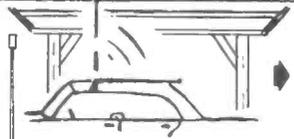
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We Pay For Your QSL, in two ways. First you get our own QSL in return and second, if you send a sizable amount you are eligible for cards from other states, from our personal collection. Send to Irving, 56 Warren St., Ellenville, N. Y.

Heathkit owners, double reception! SK-3 Pre-selector fits GW-10, GW-11; SK-4 fits GD-12. \$8.99 kit, \$11.99 wired. Postpaid. Free kit, antenna list. Holstorm, Box 8640-S, Sacramento, California 95822.

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"Alternator Filters" The original designers and manufacturers. Non-Tunable type \$2.50. Tunable type \$3.95. Highest quality. Engineered Products Company, Springboro, Ohio.

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One Watt-Johnson Personal Messenger — with leather carrying case and crystals — \$90. Dave Kulas, 403 East Fifth, Winona, Minnesota. KGE-1112.

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New Hy-Gain Toppers scientifically blend the most advanced design theory with years of research and development to bring you greater range...greater readability...better signal-to-noise ratio from your mobile rig. Space-age Hy-Q Solid State loading coil is mounted at the top of the antenna to eliminate absorption losses and provide optimum radiation efficiency. It is precision wound and exactly spaced to deliver up to 2db gain over other mobile antennas. New concept "no-cut" adjustable tuning rod allows lifetime precision tuning for optimum performance on any vehicle.

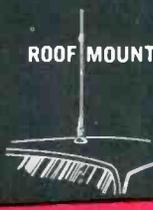
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New Hy-Gain Mobile Toppers are virtually indestructible. Hy-Q solid state loading coils are totally encapsulated in ever-enduring molded polystyrene. Whip sections and tuning sections are of low wind resistant top quality stainless steel (except telescoping models where whip section is chrome-plated brass). All mounts are precision designed to provide easy installation and a lifetime of rugged, leakproof performance. No stone was left unturned by Hy-Gain's engineers and skilled craftsmen in making new Hy-Gain Toppers the highest performance, most durable mobile antennas on the market today.

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ROOF MOUNT



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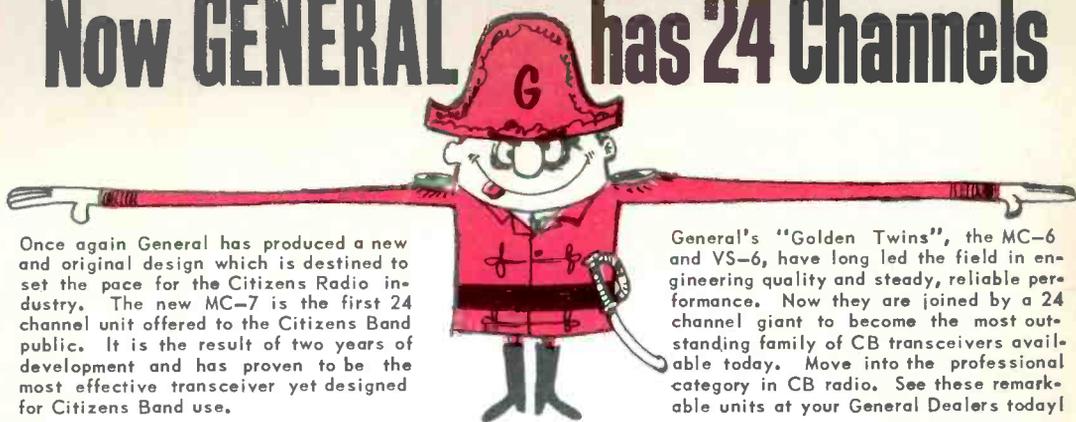
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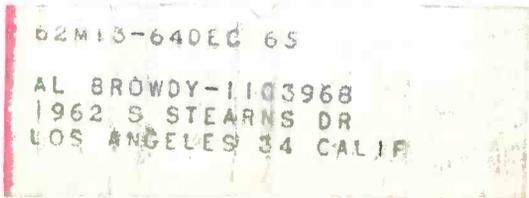
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