

FCC GIVES CB'ER YEAR IN JAIL—P. 64

FEBRUARY 1966

50c

S9

the citizens band journal

MORE POWER FOR YOU
CB & THE BIG BLACKOUT
SOUPING A WALKIE-TALKIE
MODIFYING THE MESSENGER
HEAR "ZONE" POLICE 'CASTS

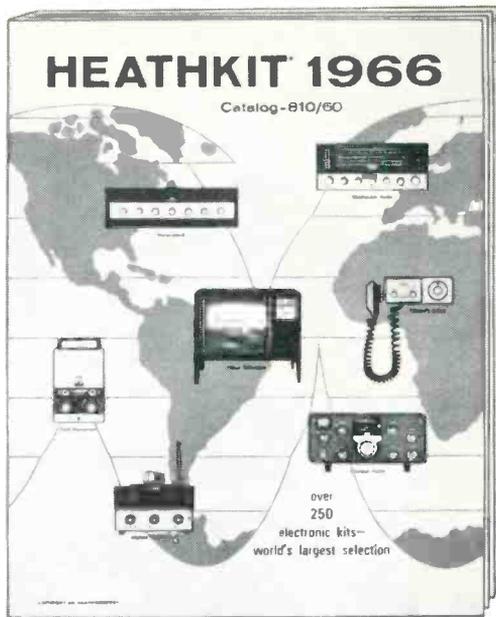


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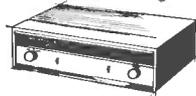
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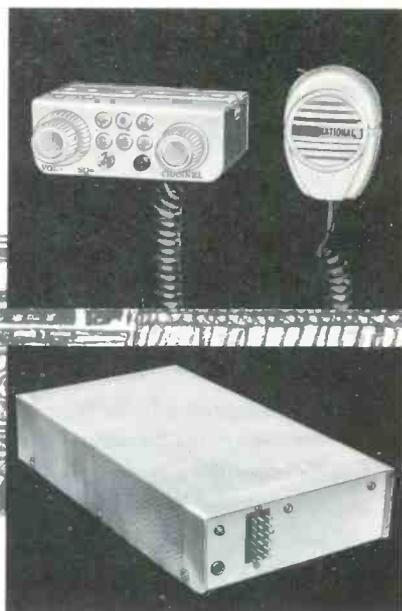


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The International Model MO Citizens Radio transceiver, custom designed for mobile installation, provides instant push-to-talk crystal controlled operation on any 6 channels with full 5 watts power input. The new compact control head provides complete remote controlled operation. All circuits are dc using solid-state crystal switching. The operating channel is indicated by an illuminated button on the control head. Tubes and silicon transistors are combined to provide a rugged trouble-free circuit.

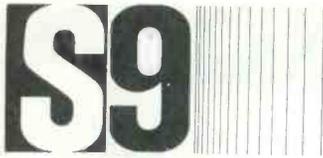
The complete transceiver includes: a remote control head (about the size of a cigarette package), matching white microphone, new compact transmitting/receiving unit which may be conveniently installed in the trunk, and a matching white speaker which mounts under the dash. Operates from 12 vdc negative ground power source. Other power input units are available on special order.

See the "all new" International Model MO at your dealer today.

FCC Citizens Radio license required. All use must conform with Part 95, FCC Rules and Regulations.



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the citizens band journal 14 Vanderventer Ave., Port Washington, N. Y.

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S9 (title registered U.S. Post Office) is published monthly by Cowan Publishing Corp. Executive, editorial and advertising offices at 14 Vanderventer Avenue, Port Washington, L. I., N. Y. 11050, Telephone: (516) PO 7-9080. Subscription Rates: One year \$5.00, two years \$9.00, three years \$13.00 in United States and Possessions, APO, FPO, and Canada.

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Controlled Circulation Postage Paid at New York, N. Y.

POSTMASTER: SEND FORM 3579 TO: S9, 14 Vanderventer Ave., Port Washington, L. I., N. Y. 11050.

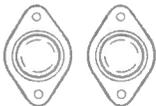
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- Super-selective dual conversion superhet requires only $\frac{1}{4}\mu\text{V}$ for 10db S/N.
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READER MAIL

TEN CODE BLUES

Dear Sir:

Regarding the 10 Code which has been published in S9, we are using it in the Binghamton, N. Y., area but are receiving citations. What's the scoop?

Ralph Lorson, KNP6335
Johnson City, N. Y.

Sorry, can't answer that one Ralph. CB'ers throughout the nation have been using it for over a year and nobody has ever run afoul of the FCC because of it. It doesn't seem to violate any sections of Part 95. Can any readers shed any light on the situation?

JAGGED JAGS

Hi Tom,

Noticed in the "Who's Who In CB Directory" that you are a Jaguar enthusiast. I have a 1961 3.8 litre. How did you mount a CB rig in your Jag? I'm having troubles with the electrical system. What kind of antenna are you using and where is it mounted?

William Ferbrache, 18Q2631
La Grange Park, Ill.

My Jag is a 1958 3.4 litre with an automatic transmission. The engine needed so much work that I scrapped the 3.4 mill and installed one taken from an XK-E. The problem with radio gear installation, of course, is the car's pesky positive ground electrical system, also the limited amount of rig mounting room inside the car. Obviously, a transistorized rig is the answer, but the selection of such rigs which will operate with a positive ground is sort of limited. I wound up mounting the rig on the transmission hump, using a CB/AM antenna on the left cowl.

DON'T MESS WITH MR. INBETWEEN

Dear Tom,

Being somewhat of an old-timer in the S9 family of readers, I have watched with more than a passing interest the growth of your excellent publication.

I always feel that I have been part of S9's progress when I see you comment "Next month we will have — pages" or "What do you think of come on the scene and silently steal off into the our new cover?" I've seen many imitation S9's night during all of this. I'm proud of you in being able to wade through the sea of so-called CB magazines, sinking them as you pass.

But enough of these praises, let's get back to the covers. I recently received your most recent cover and I must say that it's a beauty. One question, When are you going to send me the inside pages? The postman apologized for delivering just a cover, and even went on to say that what *was* inbetween must have been a dilly. Don't get me wrong, I love the cover—but it isn't always what's up front that counts. HELP! I can't stand the suspense! Was your last issue just a cover, or was there an inside section?

Charles P. Charlet, KHC0405
Radcliff, Ky.

I guess you could say that "we got ya covered." Sorry for the goof, a replacement issue has been arranged.

TALK POWR PREAMP

Dear Tommy,

We built the TALK POWR PREAMP from plans in a recent issue of S9 and thought that you would like to know that it's the most wonderful addition we have ever added to our CB station.

Margie Albertson, KBG8852
Sea Cliff, N. Y.

ACBA, WHO DAT?

Tom,

I received a letter from the American Citizens Band Association saying that they couldn't muster enough support and will be cutting back publication of their bulletin to a "small one" every month or so. I figure that such an admission must mean that ACBA is gasping its last few breaths — it simply can't last much longer.

I just wanted to apologize for the attack that I made on you for your stand on the ACBA (December, 1964, issue of S9). I haven't renewed my membership in ACBA.

I'm behind you 100% and I hope that you forgive my dig at you. I should have known better in the first place.

Mel Hammer, Jr., KGI8017
Wichita, Kans.

No hard feelings, Mel. As a sort of sad postscript to the whole messay affair, we noted from an FCC press release that the club station license which was issued to the "founder" of this ill-starred club was quietly revoked for rule violations. I'm sure that this little tidbit won't appear in the ACBA's new reduced-size bulletin. Interesting story behind it all too, especially since one of the club's big sales pitches was to help the members avoid FCC trouble. And I'll bet that you'll doubt it Mel, but there are still diehard ACBA supporters out there who will automatically send us a nasty letter when this issue of S9 goes on sale.

S9

Birds of a feather . . .

the Eagle

the Raven



Give wings to your CB communications
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Eagle Base Station

Your Browning Eagle base station will be the heart of your CB communications center . . . the finest investment you can make. It's got everything . . . RF gain control, selectivity switch, cascode Nuvistor front end, 12 tuned I.F. coils in the receiver. Transmitter has built-in SWR meter, crystal microphone, clipper-filter stage, 23-channel operation and all the other features you want most in a base station. See it at your franchised Browning Service Center today.

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Everybody's raving about the new Raven . . . The transmitter has 100% peak limited plate modulation, opto-electronic automatic compressor. Receiver has sensitivity 0.2 uv for 10 db of quieting, adjacent channel rejection 80 db down. Plus two Nuvistor cascode front end and all 23-channel crystal control transmit and receive. No synthesizing. Twelve tubes, 19 functions, *plus* 2 transistors and 9 diodes. Only 4" high, 10 $\frac{3}{4}$ " wide, 8" deep.



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23-channel (they all work),
S-metered, loud-hailer-
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*the ultimate CB transceiver?***



**See your dealer or
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We're prejudiced.**

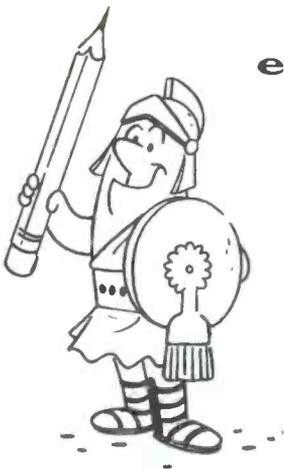


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editorial

KBG4303 rides again!

by TOM KNEITEL
EDITOR, S9

BRAIN BUSTER PUZZLE WINNERS!!

Seems like everyone decided to enter the Brain Buster puzzle which was run in the December issue of S9—but we were surprised at how few people were able to successfully complete the little devil. Purpose was to find the names of S9 advertisers which were hidden away in a maze of "X's." You'd be surprised at some of the names which were invented by the contestants, think we'll sell them to manufacturers.

We promised that we would see a free (subscription (or extension for present subscribers) to the first three which came in with the manufacturers located properly. The correct answer was 45 (44 different with GC listed twice). Here are the winners:

Thomas R. Sundstrom, 2Q3671, Levittown, Pa. (old time subscriber)

KMD6373, Ho-Ho-Kus, N. J. (non-subscriber)

Bob Orwick, KLN3506, Findlay, Ohio (subscriber)

We are also awarding a subscription extension as a special bonus prize to Mike Troy, KAK0464, Port Chester, N. Y. Mike goofed on the puzzle but located the following: two manufacturers of ham gear which we didn't even notice, a number of radio broadcasting station call signs and (best of all) he found the name "Max" twice. Certainly, finding "Max" twice is deserving of recognition.

CHRISTMAS PARTY AFTERMATH

Herb Friedman is an author whose name is familiar to readers of magazines such as *Electronics Illustrated*, *Radio-TV Experimenter*, *Elementary Electronics*, *Popular Photography*, *HiFi/Stereo Review*, *Mechanics Illustrated*—he's even done some noteworthy manuscripts for S9. One of the early CB'ers (2W6045), Herb is now licensed as KBI9457 on CB and W2ZLF on the Ham bands, and still has time enough to devote to the fields of high fidelity audio and

general electronic gadget tinkering to have made a considerable impression on each, where his equipment designs and tests are quite popular. As a rule, his authorship rates are somewhat more than S9 is accustomed to shelling out.

Cornering Herb at our S9 office Christmas bash a few weeks ago, we jammed a glass of ambrosia (of dubious quality but of considerable potency) into Herb's formerly pudgy hand (he's on a diet) and told him that, if only as a charitable contribution, he should do some regular writing for S9 readers. Pretending not to hear the proposition, he had reached the point of enjoyment where he was doing a "shuffle off to Buffalo" step on Dick Cowan's desk when we abruptly thrust a crayon into his unoccupied hand and coerced him into signing a contract for a regular monthly column at pitance rates.

Herb's column will appeal to everyone involved in the dynamic field of electronics—especially CB'ers, whose thirst for data on new electronics products and techniques far exceeds that of most folks we come across. Herb will offer his comments on products and new developments in *all* areas of electronics, many of which will touch on two-way communications, and many having no relationship to communications other than they share the basic common denominator of electronics. This means that you'll be receiving an authority's views on audio, stereo, multiplex, commercial communications, Ham radio, even color TV equipment. Herb promises to let the chips fall where they may in his column, praising and blasting away as his conscience and mood dictates. Perhaps, if we're lucky, we can get him worked up to the point where he'll do a repeat of an accomplishment of a year or two ago where, in a national publication, he shredded up a widely sold electronic product so thoroughly

Continued on page 64

More people read more things in S9!

February 1966 • 7

The ideal base/mobile combination for CB radio

FOR BASE STATIONS where
117 V 60 cycle AC current is available...



The Low-Cost RCA Mark VIII and Mark NINE

- 9 crystal-controlled transmit and receive channels.
- Tunable receiver for reception of 23 C-B channels; dial marked in both channel numbers and frequency.
- Exceptionally good voice reproduction.
- Highly selective superheterodyne receiver with one RF and two IF amplifier stages.
- Electronic switching—no relay noise or chatter.
- Illuminated "working channel" feature.
- Light and compact—only 3 3/4 inches high, weighs only 9 pounds with mike.
- Improved Automatic Noise Limiter.

Plus these EXTRA features in the Mark NINE

- Combination "S" Meter and relative RF Output Meter (indicates the relative strength of incoming signal) and Relative RF Output Meter (indicates relative strength of signal being transmitted).
- Spotting Switch. Permits precise manual tuning of receiver without use of receiver crystals.
- External Speaker Jack. Lets you connect an external speaker to set, so that incoming calls can be heard in remote locations.

Mark VIII: \$99.95*

Mark NINE: \$114.50*

FOR MOBILE UNITS where low
power consumption is important...



The all-solid-state MARK 10

- All silicon transistors assure low power consumption, dependable communications at temperatures from -23° to +130° F.
- Compact, lightweight. Fits easily under dash of any car or truck. Only 3 3/4" high, 5 3/4" deep, 8 1/2" wide. Weighs less than 4 1/2 pounds.
- 12 crystal-controlled transmit and receive channels with illuminated channel selector.
- Combination "S" Meter and relative RF Output Meter.
- Operates from 12-volts DC power source (positive or negative ground).
- Crystal-controlled double conversion, superheterodyne receiver provides frequency accuracies greater than 0.004%.
- Separate AGC amplifier eliminates blasting and overloading, minimizes fading.
- Six-stage IF bandpass filter for maximum selectivity without ringing.
- Low-distortion, series-type noise limiter with automatic threshold adjustment.
- Receiver power regulated for maximum stability.
- Acoustically designed cabinet with audio characteristics shaped for maximum intelligibility.
- External speaker jack (de-activates internal speaker).

Mark 10: \$189.95*

*Optional distributor resale price.

See them at your Authorized
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Look for stores
displaying this symbol.



RCA ELECTRONIC COMPONENTS AND DEVICES, HARRISON, N. J.

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CB GENERAT-ION

EMERGENCY POWER IN BLACKOUT

ONLY ONE OF MANY WAYS

ELECTRIC GENERATOR COMES IN HANDY FOR CB'ER.

by HENRY B. KREER, 18Q5495

"Pete" Kreer, although best-known among CB'ers as the originator and present National Director of REACT, has been prominently involved in the electronics industry for 20 years. As president of Henry B. Kreer & Co., a Chicago advertising firm, he is regularly involved in the development of marketing programs for such industry leaders as Antenna Specialists Co., Argos Products Co. and Hallicrafters. Pete is an old-time and dedicated CB'er whose 4 units at home, office, personal and company cars have become as much a part of daily life as his typewriter.

Peter Branconnier, director of Woonsocket's, Northern Rhode Island REACT, was just pulling into his driveway after a routine workday when the shade came down. As the world knows, the power failure was sudden, devastating and total, plunging the entire Northeast U.S. into a blackout not only of illumination, but communications as well.

Branconnier looked at his watch—it was exactly 5:21 p.m.—and raced for REACT headquarters. The team's 3,000-watt emergency generator was cranked up, and REACT was in business.

Instead of a herd of uncontrollable mobiles milling around the city, talking to the wind and hoping to find someone to help, in less than nine minutes 15 highly disciplined units were on station by prearrangement at police headquarters, the hospital, fire station, radio station and selected key traffic intersections—all under the

rigid control of a fully-powered, monitor base station—thanks to their standby power generator.

Throughout the blackout area, thousands of CB'ers were proving, individually and in organized groups, that CB is the primary means of communication in time of disaster or local emergency. In Johnson City, N. Y., Tri-Cities REACT was on the air from a generator-powered control station in less than two minutes, in full control of more than 35 mobiles. In Wellsville, South Lansing, Sea Cliff, N. Y. and dozens of other communities, disciplined, effective work was reported to national REACT headquarters and the FCC. A month later, in the Southwest, the story was the same.

There is no question but that an emergency electric generator is an essential item of equipment for any emergency communications team. However, standby power is just one of many ways in which a portable electric power generator can be useful. Many applications for business and pleasure have nothing to do with emergencies.

For instance, construction firms and contractors use electric power generators regularly to operate power tools on sites where public power has not yet been installed.

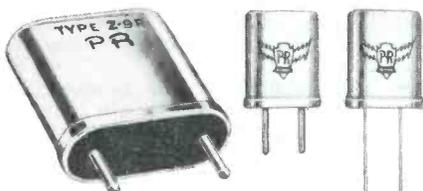
One of the largest categories of "strictly for business" user is public utilities—when power fails, the electric and phone repair crews must have power for their repair tools!

In the communications field, small portable generators are widely used by radio amateurs



PR CITIZENS BAND Crystals

Put PR Crystals in your transceiver, and you'll have the finest frequency control that money can buy. PRs are built to perform, under good conditions and bad. Their high activity insures maximum amplifier output and extra distance. You get clearer reception, too. With PRs you get the strongest signal possible within power limits. And PR Citizens Band Crystals are precision-matched for all popular makes and models of transceivers. Ask your CB Dealer for PRs, today.



Supplied in all 23 assigned frequencies. Be sure to specify channel desired, with name of manufacturer and model of equipment. Type Z-9R Crystals have .486" pin spacing; .050" pin diameter; .758" height, above pins; width .720" and depth .309". Z-13 Crystals have .192" pin spacing; .040" pin diameter; .530" height above pins; width .402" and thickness .150". Z-13P Crystals are same as Z-13 except for having .017" wire leads instead of pins.

Calibrated		.005%	.002%
Type Z-9R	— Transmitter	\$2.95	\$3.95
Type Z-13	— Transmitter	2.95	3.95
Type Z-13P	— Transmitter	2.95	3.95
Type Z-9R	— Receiver	2.95	3.95
Type Z-13	— Receiver	2.95	3.95
Type Z-13P	— Receiver	2.95	3.95

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for the annual "field day" in June. CB clubs often will lug along a portable job on jamborees and other field events. (The Signal Corps, of course, uses thousands of small generators for military field communications.)

WHAT'S AVAILABLE

For permanent installations, where the emergency requirement calls for continuous operation and a heavy drain on power (a hospital, for example) fixed generating plants with a capacity from 10,000 to 50,000 watts may be obtained. Such plants cost many thousands of dollars, and obviously are intended for emergency use only.

Small-fixed-location electric power generators with somewhat less capacity, 5,000-10,000 watts, are available from about \$700 and up. Such plants are often used as permanent emergency power sources for such installations as police stations and small business or commercial establishments.

Most versatile of all electric power generators are the small semi-portable types ranging in power output from 1,000 to 5,000 watts. These units have the great virtue of portability, making them ideal not only for various types of emergency applications, but for business, sports and pleasure in between.

One such unit, the Zeus made by Antenna Specialists Co., is especially suited for communications work. It has a permanent magnet alternator instead of the usual brushes, commutator, slip rings, thus greatly reducing electrical interference. Other good makes of conventional generators are Onan and Wincharger.

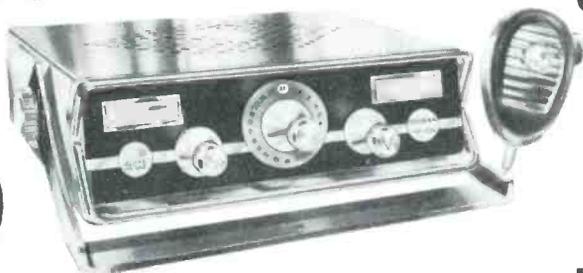
These smaller units sell for as little as \$198.13, bringing them within reach of the individual CB'er, both for communications work and home emergencies. While such units will operate several appliances simultaneously, don't expect them to run your home "as usual"—a refrigerator and one bulb is all you can reasonably expect from a 1,000-watt unit. (Antenna Specialists' Zeus division has a handy wattage requirement chart that tells how much juice it takes to start and run various appliances, tools, etc.)

Another big plus is found in some units which will operate on propane instead of gasoline. This is much superior for standby and civil defense applications; propane is cleaner-burning, and more easily and safely stored.



Only Courier gives you a 23-channel transistor CB rig

for
\$169



and can guarantee it for 10 years!

What do you do for an encore after introducing the industry's finest 23-channel transistorized CB rig for the unheard price of \$169? Tag it with a 10 year guarantee!

Silicon-transistors throughout bring the size down to 5¾"W x 6¼"D x 1⅞"H. With big-size performance. Complete, with microphone and a long list of features you want. Illuminated S meter. Illuminated channel selector. All crystals supplied for 23 channels. PA system. Auxiliary speaker jack. Single-knob tuning. Modulation indicator. DC cord. Chrome cabinet. Plus exclusive Courier "Safety-Circuit" to protect against mismatched antenna, incorrect polarity, and overload.

You can see the Courier TR-23S at your nearest Courier dealer. Or use the coupon for all the data on the amazing Courier TR-23S—the CB rig with the ten year guarantee.

DEPT. S-62


ECI. electronics communications inc.
56 Hamilton Avenue, White Plains, N.Y.

Yes! I'd like to know all about the \$169 Courier TR-23S with the 10 year guarantee!

Name

Address

City County State

W-T SOUP-UP

ADD 40% MORE MODULATION TO YOUR WALKIE-TALKIE

by MARTIN SCHECTER, KBI2090/WA2IDY

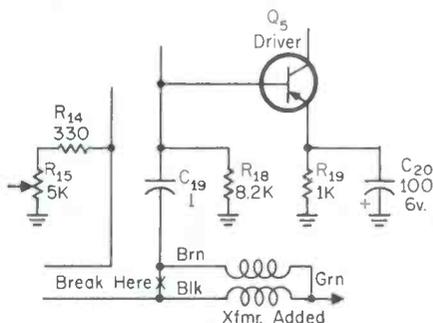
New uses for Citizen Band walkie-talkies are found almost every day. These versatile little transceivers have been used by the Police, Firemen, antenna teams, Construction crews, Wrecking crews and just about every radio hobbyist.

They are excellent for short distance communications but most of them lack sufficient modulation to give them that extra bit of power. This condition exists in walkie-talkies using speakers as a microphone. In most cases the speaker is connected directly to the base of the driver transistor when in the transmit position.

The reason for additional modulation is more audio, better fidelity and distance is increased considerably.

Can more modulation be accomplished in these small inexpensive units? Yes; and it is very simple when you understand the modulation circuit. Speakers which are used as microphones usually have an impedance of 8 ohms. The driver transistors base has an approximate impedance of 2000 ohms. We can now see that the speaker to the base of the transistor is a very bad mismatch and the efficiency of the transistor is greatly reduced. To get the maximum efficiency of the driver transistor a transformer is needed between the base of the transistor and the speaker. For an efficient match the ideal transformer would be one which has an impedance ratio of 30-1 (2000 ohms) which is the base impedance of the transistor and 8 ohms which is the impedance of the speaker. With this ideal impedance match the speaker could modulate the base of the transistor to maximum efficiency. The transformer used in this article was bought at Lafayette Radio (Catalog #99-6129) at a cost of \$.79 each.

Specifications of the transformer are as follows. It is an output transformer with a primary impedance of 500 ohms centertapped and a



secondary impedance of 8 ohms. The centertap is not used. Of course there is a slight mismatch but only approximately 2 to 1. An increase of 30% to 40% modulation was observed on the oscilloscope. This transformer was also used because of its subminiature size. It can be mounted almost anywhere in your walkie-talkie.

There are different ways of increasing modulation using an additional transistor stage but it would be more costly and the signal-to-noise would be increased.

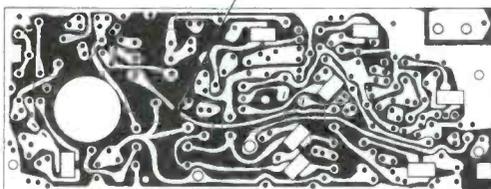
To install the transformer into the printed circuit board is quite easy. First mount the transformer nearest the printed wire that leads from the speaker to the base of the driver transistor. The frame of the transformer can be soldered to almost any ground source or IF can. It can also be glued to almost any part of the walkie-talkie. The transformer used in this article was soldered to the switch bracket of an EICO Model 740 Walkie-Talkie. The conductor on the board which connects the speaker to the base of the driver transistor should be opened carefully with a knife or file. Do not cut more than a sixteenth of an inch. The secondary of the transformer should be installed to the speaker side (black wire) and the primary to the base side of the transistor (brown wire). Cut the red wire which is the center tap and discard. Ground the remaining green wires to any ground connection on the printed circuit board.

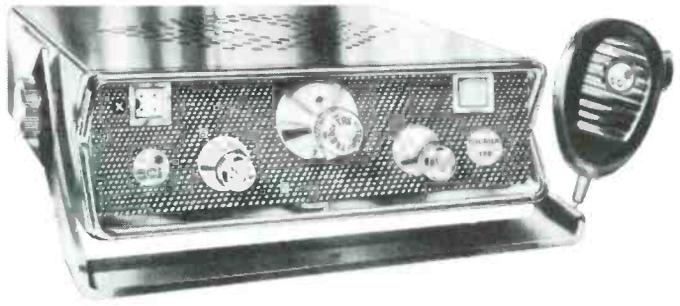
When soldering to the printed circuit board, be very careful of the following items. Excessive heat should not be used on the board. This might cause lift off of the conductors. Too much solder

Continued on page 65

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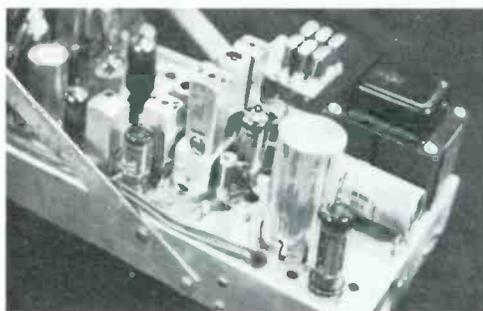
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ADDING AN IF STAGE TO THE JOHNSON MESSENGER I

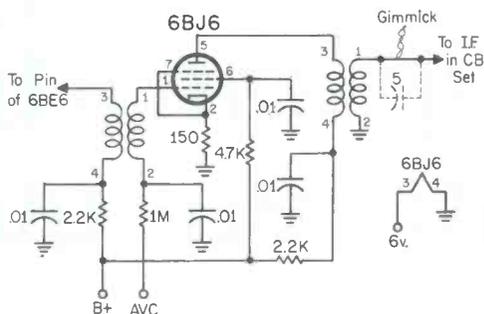
by BOB KUEHN, WOHKF



One sure-fire way to judge the relative sensitivity and selectivity of two receivers is to compare the number of IF (intermediate frequency) stages of each. Thus the Johnson Messenger I CB transceiver has one IF stage while its more expensive successor, the Messenger II has two such stages. The extra tube and four tuned circuits (two in each IF can) give much improved sensitivity as well as selectivity—free from adjacent channel interference.

As it happens, the Messenger I chassis is so well adapted to installing a second IF stage that it can be done without drilling a single hole, and by removing only one wire within the set, about $\frac{3}{4}$ " long. The unit is first completely built on a separate, small chassis and then installed and wired in the place and manner to be described. Necessary tools are a hand drill, a couple of small files, pliers, screwdriver and soldering iron.

The chassis is fabricated from a scrap of aluminum as shown in the sketches. The two outside holes of course are for fastening it to the Messenger chassis. Bolt a solder lug to each of the holes in the 1" square sections as well as under each nut at the tube socket, to be used for various connections as needed. No dimensions are given for the IF transformer cutouts because there are several variations in mounting styles. They must be drilled and filed to fit

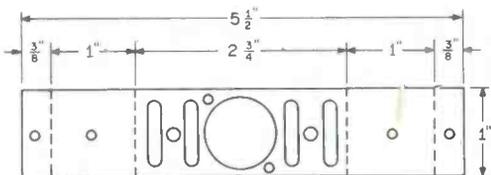


PARTS LIST

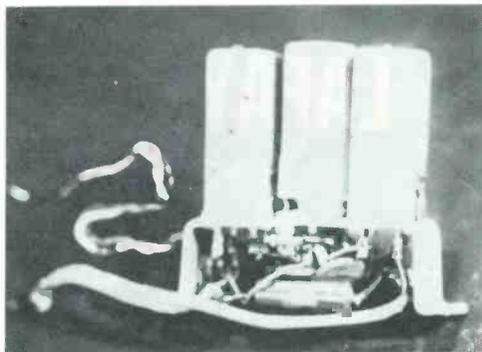
- 1—6BJ6 tube (or 12BJ6), depending on set)
- 1—7 pin tube socket with shield. Amphenol 147-500 or equivalent
- 1—455 KC I.F. input transformer. J. W. Miller 12-C1 or equivalent) $\frac{3}{4}$ " by 2"
- 1—455 KC I.F. output transformer. J. W. Miller 12-C2 or equivalent) in size
- 2—2200 ohm $\frac{1}{4}$ watt resistors
- 1—150 ohm $\frac{1}{4}$ watt resistor
- 1—4700 ohm $\frac{1}{2}$ watt resistor
- 1—1 megohm $\frac{1}{4}$ watt resistor
- 4—.01 mfd disc ceramic by pass capacitors
- 16" of shielded hookup wire
- $\frac{1}{2}$ dozen solder lugs
- small nuts and bolts (4-40 or 6-32)
- aluminum scrap for chassis

the transformers to be used. Some manufacturers package a steel adaptor or template with each transformer, which can be used to mount the IF can over a round hole made with a socket punch, or alternatively to serve as a drilling template for cutouts similar to that shown in the sketch.

Orient the input transformer so its grid pin (green) is closest to pine 1 of the tube socket. No other wiring precautions are necessary and all components should fit easily into the nearly



CHASSIS DIMENSIONS. Material, soft aluminum. Bend on dotted lines, after drilling all holes. "IF" transformer cut-outs will vary according to type used. Holes in 1" x 1" section at either end are for grounding lugs used in wiring components.



three cubic inches available below the chassis. The unit is connected to the CB set with four 12" pieces of hookup wire, color coded, if available: brown for filament, black for AVC, red for B plus and white for ground. Also connect 12" pieces of shielded wire to terminal 3 of the input transformer and terminal 1 of the output transformer. Slip 3" pieces of spaghetti over these leads to avoid danger of the bare braid shorting to components or wiring under the chassis.

With the cabinet removed from the Johnson I, note the open space near the center of the chassis top just to the rear of the two IF cans. This is where the new stage is mounted. Note also the two holes to the rear of the 6BE6 mixer tube socket, which will be used to lead the connecting wires and shielded leads below the deck.

Directly below the open chassis space just mentioned is a terminal board, riveted at each end. The rivets are carefully drilled out, to be replaced by 6-32 machine screws which will serve to hold both the new chassis and the terminal board in place.

There are two types of IF transformers commonly used, one with adjustment slugs slotted for a screwdriver which must be adjusted from both top and bottom, and the other with small hexagonal holes through both slugs, permitting adjustment of both slugs from the top of the chassis. No holes for tuning can be drilled in the Messenger chassis because of the terminal board below deck. Therefore if screwdriver adjusted slugs are used in your IF transformers leave just enough slack in the connecting wires to tune the new stage up before bolting it to the chassis. The wires are shortened up of course before permanently soldering them in place. If the second type of transformers is used everything can be completed before tuneup.

In assembling, feed the two shielded leads through the hole adjacent to the 6BE6 socket occupied by a single white wire. Turn the Messenger chassis upside down and clip out the 3/4" long lead running from pin 5 of the 6BE6 to the IF transformer.

After cutting the two shielded leads to length, twist the ends of the braid together and solder to a nearby ground lug. The input of the new stage is connected directly to the 6BE6 plate, pin 5. The other connection, between pin 1 of the new transformer and the one in the CB set, is made through a small-capacity gimmick consisting of two inch-long pieces of hookup wire twisted together. However, a 5 mmf fixed capacitor would serve as well.

With the Messenger chassis upside down and the front of it closest to you, note the two long terminal strips extending across it, labeled TS2 and TW4 in the bottom view of the set shown in the instruction book. Connections are made to the one closest to the front, TS4. The AVC lead is soldered to the 3rd terminal from the right, the B plus to the eighth lug from the right and the ground wire to any convenient ground lug. Connect the filament wire to pin 5 of the 7061 RF amplifier tube toward the rear of the set. The 1 megohm resistor in the AVC lead can be mounted either as an integral part of the new IF stage or at the Messenger terminal strip.

Ideally any IF amplifier strip should be aligned with the aid of an accurately tuned signal source and if a signal generator is available or can be borrowed, it should be used. However, if it is reasonably certain that the CB set was in proper tune before conversion was begun, a reasonably good job can be done by simply peaking the adjustments for maximum volume on over-the-air signals. In either case, of the two original IF transformers it is only necessary to retune the bottom slug of the one nearest the 6BE6 mixer tube. Tune the top and bottom slugs of both the new transformers for strongest average signal strength from a variety of over-the-air signals on all available channels.

Your set should now be virtually equivalent to the Messenger II, and even has one more tube. This is because the later model uses diodes to perform the detector and noise limiter functions.



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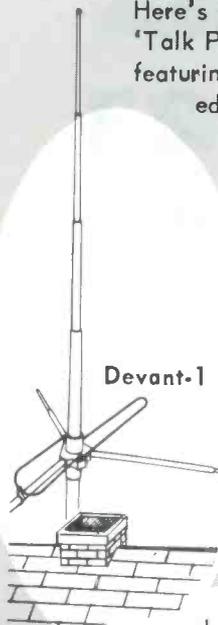
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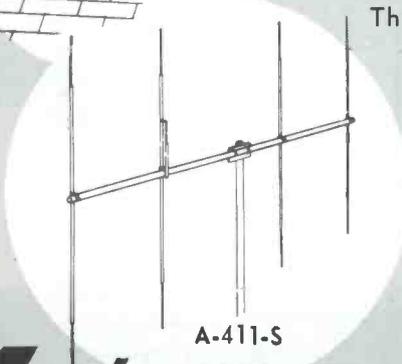
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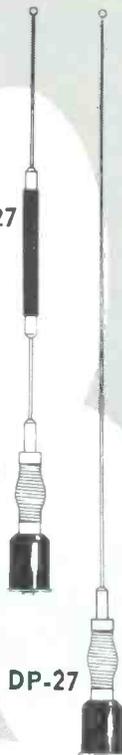
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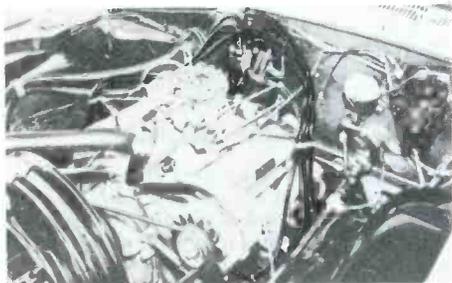
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ON THE COUNTERS



The Hallett Manufacturing Co., 5910 Bowcroft St., Los Angeles, Calif. 90016, has developed an interesting new auto ignition noise killing shield called the "Signal Saver." Actually, the Signal Saver is a complete ignition wiring replacement unit which includes cable, distributor cap shield, coil shield, etc. Available for most cars, prices range from \$36.10 to \$61.20.

Barker & Williamson, Inc., Bristol, Pa., has designed a new TVI filter, the Model 427 low pass filter. Covering the entire range of 25 through 50 mc/s, the 427 can easily handle transmitter powers up to 1,000 watts, making it ideal for CB and 6/10 meter ham use. Use it with any 50/75 ohm antenna system, it's equipped with coaxial fittings. Price is \$19.86, shipping charges prepaid.

A new five channel rig has been announced by Squires-Sanders, Inc., Millington, N. J. Dubbed the S-5-S, it is priced at \$185 and features the exclusive "Noise Silencer" circuit. The system defeats noise caused by auto ignition, power lines and fluorescent lights without loss of signal level, without introduction of audio distortion. Other features include all-transistor circuitry, pi output network, and channel 9 crystal. The rig operates from 12 volt negative ground systems, and an optional AC power supply is available.

A CB log book of more than 35 pages (29 entries per page) is now available from Allen Electronics, 41-42 Main St., Flushing 55, N. Y. Price is \$1, and if you say that S9 sent you, they'll probably rush your order and include a copy of their giant CB and electronics catalogue.

S9 = more news, more authors, more value!



Want something really wild? An outfit in New Jersey has come up with some clever "nutty" radio awards which are beautifully designed in four colors. Four different awards (such as "World's Biggest Lid," "Radio's Biggest Egoist," and "Worked All TV Sets") are available, each is 8" x 10" and in a separate envelope. The set of four goes for \$2, postpaid from Van, 348D Essex, Stirling, N. J. 07980. These are great for clubs to give out at meetings—really breaks everybody up!

S9 Lab

Reports

JOHNSON MESSENGER III CB TRANSCEIVER

One of the newest additions to the Johnson line of Messenger CB Transceivers is the Messenger III, an all solid-state affair that uses 18 transistors, 9 diodes and one Zener-diode regu-

address operation with 3 watts audio output available to separate PA speaker, push-to-talk transmitter operation with maximum legal input-power of 5 watts, full modulation with AF speech compression to maintain a high average "talk power," built-in TVI suppression, provision for Tone-Alert III selective calling accessory, visual "transmitter-on" indication, diode regulator to maintain stable operating voltages during fluctuations of mobile-battery power, full performance at temperatures down to as low as -20 deg. F., operation from negative or positive ground systems.

In addition, the Messenger III is very compact and it is designed for ease of operation using only three controls. It also has a two-position mounting bracket for ease of installation. The microphone is enclosed in a high-impact plastic case which has a full-length push-to-talk bar on the side. It also has a hanger and special mounting tape that allows the mic to be supported at almost any convenient spot in a vehicle.

CIRCUIT DETAILS

The manual gives no data on the frequency conversions used in the receiver, but apparently the first conversion takes place at 4.3 mc/s with the second at 455 kc/s for which a two-stage IF amplifier is used with double-tuned interstage transformers. Crystal-controlled oscillators are employed with both conversion mixers. The IF amplifier is followed by a diode detector, a special AF-type noise limiter and an AGC diode. The ACTC voltage is applied the first IF stage



lator. It operates directly from a 12 VDC source and provides 11 crystal-controlled receive and transmit channels, any one of which may be instantly selected.

A special feature is the use of a highly efficient and reliable RF power-amplifier transistor that was originally used in space satellite applications. The first piece of CB gear to employ this component is purported to be the Messenger III. We cannot give you more details on it, since the type number on it cannot be seen and it is not given in the manual.

Other features of the Messenger III include the following: dual-conversion superhetrodyne with automatic noise limiter and "noise-immune" adjustable squelch, "set-and-forget" volume and squelch controls, double-action automatic gain control (AGC), external-speaker jack, public-

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and to two separate AGC amplifiers one of which controls the first mixer, the other is applied to the RF input stage, an arrangement that provides very uniform AF output with wide variations in input signal levels. A two-stage DC amplifier, which is controlled by the AGC, gates the audio amplifier for squelch operation.

TRANSMITTER SECTION

Three stage are used in the transmitter, a crystal-controlled oscillator, an RF driver and a power-output final amplifier. The latter is coupled and impedance-matched to the antenna (50 ohms) through a Pi-L network that furnishes better harmonic attenuation for minimizing TVI than does the conventional simple Pi-network.

The AF power-output amplifier of the receiver is used to provide the audio modulating power which is applied to both the RF driver and the final amplifier of the transmitter, thereby providing full modulation not otherwise obtainable if just the final transistor amplifier were modulated alone. A built-in audio compressor automatically controls the gain of the speech amplifier to maintain a high average level.

Separate crystals are used for the receiver and the transmitter. A pair of crystals is supplied for operation on one channel (#5). Crystals for any 10 other channels may be easily installed.

SWITCHING

The d.c. power circuits and the antenna are switched between receive and transmit by means of a relay that is actuated by the PTT mic bar. The light for the channel-selector dial normally is white during receive, but on transmit the channel light turns red, letting you know you're on the air. The selector dial is marked in letters from A through K; however, provisions are included for installing labels for 11 of any of the 23 channel numbers for the corresponding crystals that are used in each position.

PA OPERATION

The PA is set up by plugging an external PA speaker into the PA jack and turning the squelch control to the PA position. When this is done, PA operation can be had simply by pressing the PTT bar on the mic and speaking in a normal voice about an inch from the microphone. There is no volume control for this service, but should one be desired, the manual suggests the use of an L pad that may be installed at the PA speaker.

When the unit is set up for PA work, the receiver output may be monitored for incoming signals on the receiver speaker only. The PA speaker works only with the microphone when the PTT bar is depressed. If you wish to monitor the receiver with a PA speaker or with a remotely located one, the speaker must be plugged into the external-speaker jack.

PERFORMANCE

The manual that comes with the set does not give any specifications on the performance of the

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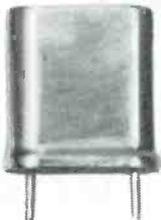
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Port Washington, N. Y. 11050**

Messenger III, but here is what we found:

Receiver sensitivity was .4 microvolt for 10 db signal-to-noise ratio; spurious and image responses were down at least 60 db; the AGC characteristics were exceptionally flat with only a 4 db change in audio output taking place with an 80 db input-signal increase (above 1 uv); the squelch could be set to trip at signal levels as low as .25 uv; adjacent-channel selectivity was in the order of 35-40 db.

According to the notes on the circuit diagram, the legal 5 watts transmitter input is obtained when operation is from a 12.3 VDC source. With this voltage applied, the carrier output power measured a healthy 3.8 watts, indicating exceptionally high efficiency.

Full modulation to just under 100% was obtainable, thus producing about 15 watts of peak-envelope output power which is held to a good average by the built-in AF compressor.

Operation in actual mobile service was a pleasure. Only three controls need be handled: volume, squelch and channel selector. The receiver noise limiter works exceptionally well, even in our Falcon which produces very heavy electrical-noise interference (some day we hope to install the Johnson-Hallett Eliminoise Shielding Kit to cut out the racket).

The squelch works very smoothly and it can be set just at the threshold without annoying chattering noises as you drive along, indicating its "immunity" to impulse noise; however, if you get a steady noise like power-line interference, the squelch may trip, since this type of interference is similar to a steady carrier signal. Once you've set the squelch near the threshold and the volume to a desired level with any signal that trips the squelch, you seldom have to adjust either control for satisfactory operation.

The audio quality is especially clean and crisp which, in spite of the fact that the loudspeaker is located at the bottom of the case where the sound is directed away from you, makes for pleasing and easily understood signal reception. The transmitter, too, has nice AF quality and packs a good punch.

The Messenger III is compactly and solidly constructed using a heavy printed-circuit board that is supported by a rugged frame. It has a dark gray panel trimmed with chromium type finish and is housed in a heavy-gauge metal case that is only 2¼" X 6¾" X 7¼" (H.W.D.). The mobile mounting bracket is made of ¼" thick metal and it has quite a number of holes in it for installation in several positions at various locations.

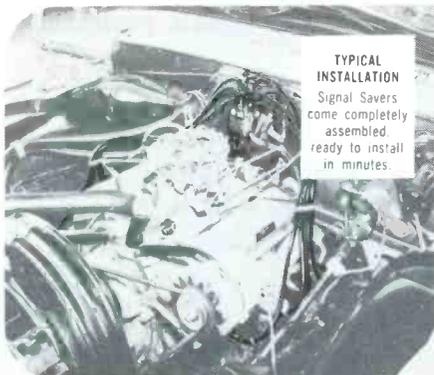
The Messenger III CB Transceiver comes complete with crystals for operation on one channel, microphone, spare fuse, replacement channel-indicator assembly, channel indicator-number stickers, mobile mounting bracket, mic hanger and all necessary hardware. A 117 VAC operated power supply, on which the transceiver can be placed, is available for base-station installations. The manufacturer is E. F. Johnson Company, Waseca, Minnesota.

S9

ADD MILES TO RECEPTION

range of CB & FM receivers

by reducing ignition noise with
HALLETT SIGNAL SAVERS*



HERE'S WHY SIGNAL SAVERS INCREASE RECEPTION RANGE

Your receiver has a given operating range, depending on the type, power and frequency of the base station equipment, your mobile equipment, and local conditions. However, all gasoline-spark type ignition engines create ignition noise that interferes with your reception. And as your vehicle moves further from your base station the signal becomes weaker, the ratio of ignition noise to signal strength increases, and eventually the noise interference overrides your signal. Thus, noise interference limits your communications range.

But by grounding noise interference so it doesn't "clobber" the incoming signal, you can extend your reception range. Even double it. That's how *Signal Saver* works. It places a noise blanketing shield around the sources of the noise—the distributor, coils, spark plugs and high tension leads. In short, *Signal Saver* keeps the noise out, lets the message in.

FREE

Write for helpful information on adding miles to mobile receiver reception. Includes prices and data on Hallett Ignition and Battery Charging Shielding Systems. Get full reception from your receiver by reducing ignition noise. Write today!

There's a Signal Saver to fit practically every internal combustion engine



*Signal Saver is a trademark of Hallett Manufacturing Company



HALLETT MANUFACTURING CO.

5914 Bowcroft St. • Los Angeles, Calif. 90016

CB IN ACTION

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



MOVING DAY — AN EDITORIAL

Pearce-Simpson is now located in its brand new 78,000 square foot plant and office building located at 4710 N. W. 77th Avenue, Miami, Florida. You can imagine what it was like shutting down, moving and setting up a combined electronics and plastics manufacturing facility. Some of the equipment weighs more than 20 tons—and there were literally hundreds of thousands of parts to keep track of. The move required precision planning and execution. For many years we have been selling the merits of radio communication systems for business and industry as well as its utilization for strictly personal use. We have read and been told all sorts of stories relating to personal and business instances where communications played a vital part in the saving of lives and the expediting of commerce. Well . . . this time, we experienced it first hand.

All of our vehicles are equipped with CB radio equipment and we use it constantly during the course of our regular day to day business. During the move and the shut-down of normal land line communications, we found out how dependent we really were on CB. We were completely cut off from telephone service and were still able to maintain communications at all times. Our system performed flawlessly and saved us countless time and many thousands of dollars. Not that it takes a move of this size to justify the use of radio, but this demonstration really pointed out how important the constant communications, which we enjoy and take for granted, are to both the company and the individuals in it.

Now that we have completed our move and are operating from this expanded modern facility, we want to take this opportunity to thank all of you CB'ers for your splendid support and cooperation. The growth of Citizens Band Radio has been a vital factor in our rapid and solid expansion. Please, if you are ever in the area, let us know. We will be more than happy to make arrangements for you to see our operation actually function. Stop by and say hello.

WIN A COMPANION II CB

Your story of "CB in Action" can win a COMPANION II CB. Write and tell us how CB helped perform a service or helped you or your community in an emergency. Send your story to Les Hench, National Sales Manager, PEARCE-SIMPSON, INC., P.O. Box 800, Biscayne Annex, Miami, Florida 33152.

S U Z I E
S E Z . . .

by **SUSAN HENRIKSEN**



Hi, girls! Last month we announced a YL QSL contest. The first winner is Ann Joiner of Houston, Texas. Her cute card is pictured above. Let's keep those QSL's coming in girls.

YL'S IN THE FOREFRONT

Fran Marn, KLJ6919, was elected Vice President of the Illowa CB Radio Club, which has played an important roll in Civil Defense activities in her area. Harriet Fleck, KLV-0295, who was elected Secretary and Carrie Letcher, KCG2384, Treasurer of the Prince George's Volunteer CB Rescue Service of the Washington, D.C. Area. This club provides emergency assistance to distressed motorists.

Fay Benedict, KCG2221, who monitors for the REACT Radio Patrol of Hagerstown, Md. recently performed a great public service. The patrol assisted city and state police in locating two escaped convicts. Fay relayed information from her fellow REACT members to the police, who soon captured the criminals.

See you next month girls.



The "Mariner" has arrived

way-out new five-element CB beam antenna . . .

works vertically or horizontally . . .

out-shouts them all with 12.5 db forward gain!

M-134

FIVE ELEMENT BEAM ANTENNA

The "Mariner"

Lightweight but tremendously rugged. High quality aluminum construction that's reinforced with proper stress distribution to take winds up to 60 m.p.h. Weighs only 19 lbs.—easy to handle and install.

Supplementary data: The M-134 is Gamma fed . . . has 1.5/1 VSWR . . . and a boom length of just 22 ft.

12.5 db vertical forward gain (ref. flat ground plane) or 11.0 db in horizontal mode (ref. $\frac{1}{2}$ wave dipole). Really booms your signal out where you want it.

You get maximum rejection of unwanted noise thanks to 20 db front-to-back ratio (vertical) or 25 db horizontal. It's like 10-2 from Mars!

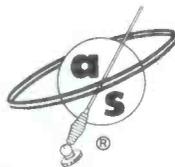
See your a/s distributor today for complete specifications or write to:

Export Div.:
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Woodside, N.Y. 11377

**the antenna
specialists co.**

A div. of Anzac Industries, Inc.
12435 Euclid Ave., Cleveland, Ohio 44106

**ONLY
\$52.50**



"Stripes of Quality"



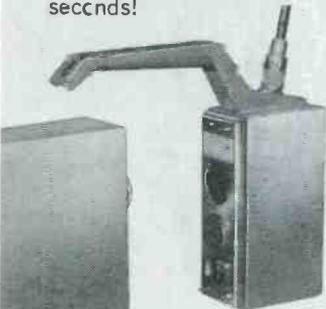
When experience counts, it's S9 every time!

February 1966 • 29

MESSENGER "100"



BASE STATION — 117 Volt AC power supply — plugs into any convenient outlet — installs in seconds!



PORTABLE — Completely self-contained "Power Pack" with rechargeable nickel cadmium battery.

new!

Check the performance features — then take a look at the price tag! You won't find *any* CB unit on the market that will match the value and solid reliability that the "100" gives you for your two-way radio dollar! The same highly competent engineering team that designed the famous Messenger III now brings you this low cost, compact, 5-channel transceiver designed for mobile, base station or portable field use! Advanced circuitry gives the unit the capability to deliver maximum power output from legal input. High performance noise limiting provides "whisper quiet" op-



See your Johnson distributor

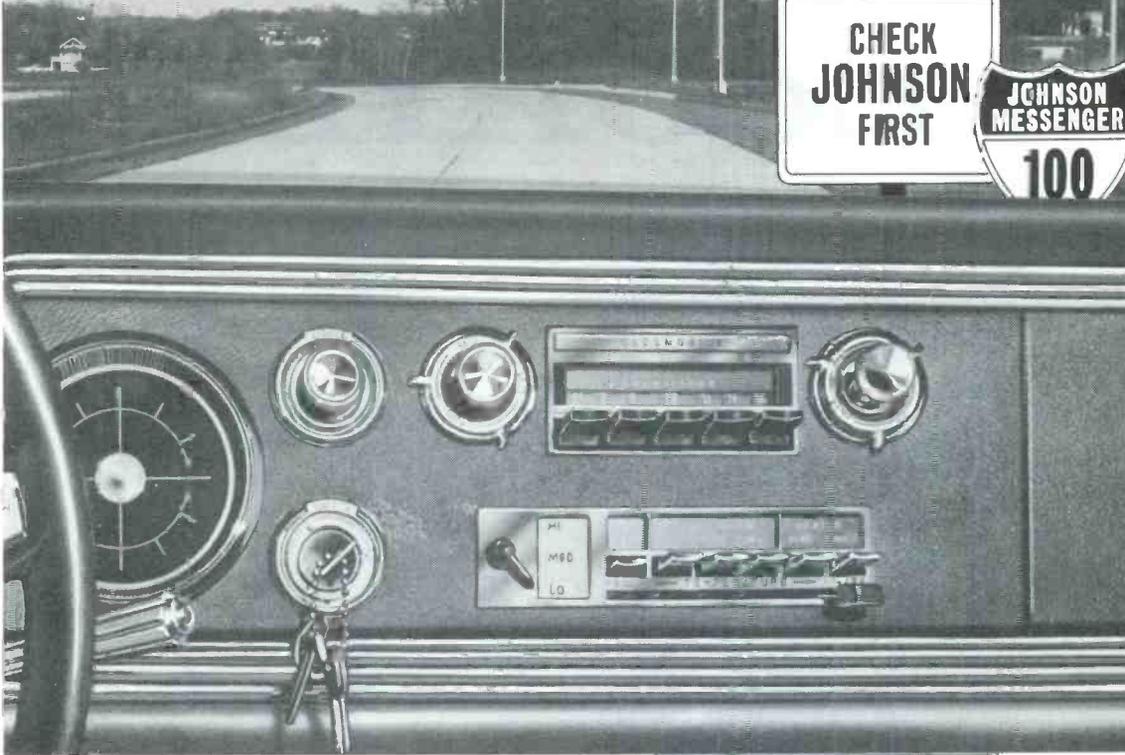
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MESSENGER

100



**Low cost—all solid-state
CITIZENS RADIO TRANSCEIVER**

eration — adjustable “squench” control lets you set receiver threshold at the best level for any operating conditions. Receiver is both sensitive and selective—unique speech compression circuit prevents overmodulation and delivers a crisp, clean signal without adjacent channel “splatter” . . . boosts average transmitted power for greater readability at extended range!

AVAILABLE ACCESSORIES: 117-volt AC power supply for base station use and self-contained “Power Pack” with rechargeable nickel cadmium battery for portable field use.

or write today for complete details!

COMPANY

WASECA, MINNESOTA 56093



Advanced circuitry features of the “100” include:

- *Narrow bandwidth receiver* for excellent selectivity!
- *High receiver sensitivity* for maximum range!
- *Unique speech compression circuit* which prevents overmodulation and helps deliver a clean, crisp signal without adjacent channel “splatter”! *Three types of usage* from one unit — Mobile, Base or Portable.

\$ **129**⁹⁵
NET
(Mobile
Unit)

LOOKIE!



DETECTING AND ELIMINATING

- ★ TV INTERFERENCE
- ★ POWER LINE INTERFERENCE
- ★ MOBILE NOISE

Edited by Tom Kneitel, K5GASGJ
Asst. Editor, Essex Magazine
Editorial Production: LHM Media
Business Manager, San Francisco, 94019

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Simply send the purchase.

S9's new series of budget books offers you a complete guide to the elimination of TVI, power line noise and mobile noise!

The manual is FREE to new subscribers, and we will offer it to current subscribers at the special rate of 50¢ per copy. The regular non-subscriber price is \$1.

Yes, it's true—just about everything you will ever need to know about CB noise elimination, all compiled from S9's pages and research archives by S9's Editor, Tom Kneitel. Articles on de-TVing a CB rig, getting free TV filters, checking out CB rigs to find if they are generating TVI, locating the sources of power line interference and then eliminating the noise, and finally, details on quieting CB interference from auto engines, including those with the new alternator systems.

You can get your copy NOW *and at no cost* if you subscribe to S9—or throw a half dollar into an envelope with an address sticker from a recent S9 if you are a subscriber. Non-subscribers, chuck two 50¢ pieces into an envelope for the S9 Interference Handbook.

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

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Only two transceivers can claim:

Silence is Golden

(in mobile installations)

That's because only two transceivers have the exclusive Squires-Sanders Noise Silencer. There's the famed "23'er", 23-channel unit (all crystals supplied). And now, an economically-priced mate—the "S5S" with 5 crystal-controlled channels. The Noise Silencer utilizes a pre-IF silencer that detects noise before the pulse is broadened by IF selectivity. By detecting before IF selectivity, the noise silencing pulse is as short as possible, so that a minimum of the signal is eliminated. There's no loss in signal level, no introduction of audio distortion—a common drawback of the ordinary noise limiting devices used in other transceivers. These units also employ a diode noise limiter to attenuate long duration noise. The result: crisp and clear mobile reception of even the weakest signals.

And there are more reasons to select the "23'er" or "S5S". Solid-state design (25 silicon transistors and 7 diodes) for reliable operation, negligible battery drain. An ultra-sensitive receiver (0.5 μ v or better) features sharp 8 kc selectivity accomplished through a 4-crystal bandpass filter. Exceptionally fine AGC keeps audio output virtually constant. Also features adjustable squelch, big 3x5 front-facing speaker; provisions for external speaker and instant conversion to



public address via an optional adaptor.

The transmitter utilizes a full legal (5-watt) transmitter input with a special high efficiency RF output amplifier clipped and filtered audio (speech booster) for top talk power (100% modulation).

An adjustable Pi output network assures optimum antenna match. Solid-state power supply for direct operation on 12 VDC (negative ground). Equipped with mobile mounting bracket, 12 VDC connecting cable and quality push-to-talk microphone. Both models may be used on CAP (26.620 mc); govt. (25.575 mc) and other frequencies, subject to FCC type approval. Two AC power supplies available—Master Model, with transistor voltage regulation and a built-in "S" meter, \$39.50; Standard model, \$19.50.

THE "23'er"—finest 23-channel mobile transceiver on market (all crystals furnished). \$235.00.

NEW "S5S" AM TRANSCEIVER—All the features of the "23'er" (Noise Silencer, ultra-sensitive receiver, etc.) except it is for 5-channel operation. Matched crystals for channel 9 (HELP) only \$185.00.

See the "23'er" and "S5S" at your CB dealer. For brochure write: Squires-Sanders, Inc., Martinsville Road, Millington, N. J. 07946.

Squires  Sanders

When experience counts, it's \$9 every time!

February 1966 • 33



INCOMPARABLE PACE 5000

—for ultra-reliable CB communication

You get the unique, all-silicon transistor design, which generates very little heat, allows continuous operation in hot or cold weather, and cuts battery drain to a new low.

Exceptional performance. The Pace 5000 gives dependable communications to 20 miles. With its high receiver sensitivity and double noise limiting circuits, unit provides excellent reception even of weak signals.

Small size—only 6 $\frac{5}{8}$ " wide by 2" high by 8" deep... up to 50% smaller than other makes. In car use, you won't have to sacrifice leg room.

Versatile—one basic radiophone serves all your short-range communication needs. The 12-volt unit is convertible to 6-volt operation, or any other dc voltage, as standard. Also convertible to base station or portable use, at low cost.

The Pace 5000 is in-house tested... 24-hour life tested... checked out 100%. Compare it and you'll agree that it outperforms any CB set on the market. Send for Bulletin 5000. Price: \$250. Available through authorized Pace distributors.

NEW PACE II-"S" solid state 12-channel mobile CB 2-way radio



with "S" meter
at only \$179.00

Advanced circuit design, all silicon transistors, lifetime guaranteed glass-fiber circuit boards, and more exclusive features, combine to give you more value than any other 2-way radio on the market.

Full size "S" meter—1 $\frac{1}{2}$ " back-lighted edge-wise scale, factory installed and calibrated. Indicates relative strength of incoming signal, helps to maintain proper squelch setting.

3.5 watt output (at 100% modulation)—the most talk power you can get from a 5-watt transmitter.

Best mobile noise limiting with exclusive noise limiter extender, for standard or deep noise clipping.

Exclusive squelch sensitivity adjustment on rear panel (in addition to standard squelch control).

Ruggedly constructed for top performance in temperatures of -30°F to +185°F and in any mobile installation.

Size: 7" x 2 $\frac{3}{4}$ " x 8 $\frac{3}{4}$ ". **Weight:** 4.2 lbs. **Power source:** 12VDC, positive or negative, or AC Power Pack, accessory. Quick disconnect "Latch Rak" for ease of mounting.

Write for Bulletin Pace II-"S"

THE PROUDEST NAME IN ALL-TRANSISTOR



NEW PACE II 12-channel mobile CB transceiver

with superior talk power plus
silicon transistor reliability
at only \$169.00

Advanced circuit design, all silicon transistors, lifetime guaranteed glass-fiber circuit boards, and more exclusive features, combine to give you more value than any other 2-way radio on the market.

3.5 watt output (at 100% modulation) — the most talk power you can get from a 5-watt transmitter.

Best mobile noise limiting with exclusive noise limiter extender, for standard or deep noise clipping.

Exclusive squelch sensitivity adjustment on rear panel (in addition to standard squelch control).

Ruggedly constructed for top performance in temperatures of -30°F to $+185^{\circ}\text{F}$ and in any mobile installation.

Size: 7" x 2 3/8" x 8 3/4". Weight: 4.2 lbs. Power source: 12VDC, positive or negative, or AC Power Pack, accessory. Quick disconnect "Latch Rak" for ease of mounting.

Write for Bulletin Pace II, and the name of your nearest Pace dealer.

NEW

PACE I

**SOLID STATE
CB RADIO**

only **\$129⁰⁰**



**more talk power
per dollar**

3.5 watt output. This new solid state 6-channel mobile CB transceiver delivers the most talk power you can get from a 5-watt transmitter — 3.5 watts at 100% modulation.

Outstanding mobile performance — Unique double conversion receiver, with noise limiting, provides excellent reception of even weak, distant signals.

All silicon transistor design, plus lifetime guaranteed glass-fiber circuit boards, combine to offer unmatched reliability, minimum current drain, and smallest possible size.

Write for Bulletin Pace I, and the name of your nearest Pace dealer.

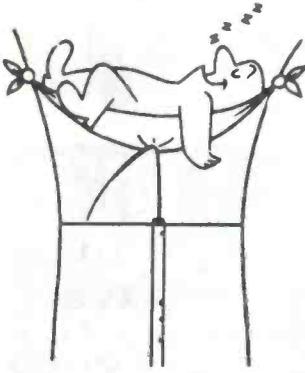


PACE

COMMUNICATIONS CORP.

24049 Frampton Ave., Harbor City, Calif. 90710
Telephone (213) 325-8444

CB TWO-WAY RADIO...



ANTENNAS

by LEN BUCKWALTER, KBA4480

MORE POWER TO YOU

If you draw two intersecting lines on a map of the USA you can find the exact center of the country. But you'd be in for a surprise if you travel to where those lines actually cross over. For near that point sits a light blue 1949 Studebaker riddled with more holes than a piece of Swiss cheese. Though it looks like the getaway car from a Brinks robbery, bullets didn't make those holes. They were drilled by eager antenna engineers seeking new and novel ways to improve the mobile whip. Just a few steps away from that car—world's most antenna-mounted auto—is the bustling plant of Hy-Gain in Lincoln, Nebraska.

Stand back far enough and you get the picture: aluminum tubes feed into one end of the factory—slick new antennas flow out the other. In between are the machine tools and industrial processes that turn out the stuff that CB dreams are made of.

But it's in the engineering section that Hy-Gain is trying to prove that we've not yet arrived at the ultimate CB antenna. The company's latest effort to push forward the state-of-the-art is their new Duo-Beam base-station antennas. You've probably seen the ad—"120 Watts Talk Power"—with an antenna that looks like it's ready to communicate with an orbiting space vehicle. With a stacked pair of 5-element beams it may do just that.

Anyone seeing a Duo-Beam could come away with a 2-word explanation for such a large antenna; simply "more gain." But talk to Charles Liu, who heads Hy-Gain's 35-man staff of engineers, and you'd discover some other ideas concealed in the Duo-Beam design. (Liu, incidentally, should know about long-range antennas. He helped design one that bounced signals off the moon while working at the antenna lab at the University of Illinois.)

The problem with a regular vertical beam antenna is the nasty effect caused by the supporting mast and feedline. Seems that signals spilling off the beam hit mast and feedline and make them part of the radiating system. The beam is unbalanced and the pattern gets sloppy; it's no longer a nice clean lobe of energy sent in one direction. In effect, mast and feedline become extra

elements that distort the pattern. In the engineer's jargon, the problem is *mast lighting* and *coax illumination*. Another way of saying that the signal sees and reacts to mast and feedline.

Not so in the Duo-Beam. As explained by Hy-Gain President Andy Andros, "As far as mast and feedline go, we've achieved phrase zero." Since there are now two balanced beams in use, mast and feedline become "invisible" to the signal. From an electrical standpoint the beams think they're in free space. The result is practically no distortion in the pattern.

Hy-Gain engineers have worked out exacting techniques to make these big babies function properly. They're mostly concerned with a matching network that converts a mass of elements into an electrically balanced beam that'll blast a signal more powerfully than any other CB antenna now available. Most critical is a phasing harness which is assembled by the CB'er. Its cabling must be connected together according to instructions or signals will fight each other. The manual provides clear drawings of how it's done and it's recommended that you follow them carefully. Average assembly time for the complete beam is about an hour and a half on the ground, with about an hour to get it up in the air. The last part is a 2-man job.

As in any directional antenna the more elements, the sharper the tuning. With the Duo-Beam there is a provision for adjusting the elements to favor the low or high end of the band. This seems to be there for someone who wants the absolute end in efficiency—since the antenna should operate at a comfortably low SWR regardless of which adjustment is selected.

Since the big Duo-Beam weighs in at 59 pounds it needs plenty of husky support (a typical installation is shown in Fig. 1). Note that if metal guy wires are used they're broken up every three feet with insulators. This prevents the wires from picking up signal and upsetting the beam pattern.

For maximum, full-circle coverage with any of these antennas, they should be used with a rotator. But watch out for the light-duty or TV-type rotator which might not have enough moxy

Continued on page 64

DEMCO ELECTRONICS



**SPECIALISTS IN—
CB TRANSCEIVERS
WALKIE-TALKIES
ANTENNAS AND
RELATED EQUIPMENT**



DEMCO TRAVELIER MOBILE/BASE

Deluxe model with 23 crystal-controlled transmit channels; variable 23-channel, four-crystal receive tuning. Powerful 18-tube performance. Full modulation and extra sensitivity for greater range and talk-power..... \$180.00
AC POWER SUPPLY for base station use..... \$ 19.95
AUXILIARY SPEAKER — plugs in, no wiring.... \$ 9.95

DEMCO RAVELLE MOBILE/BASE

Provides optimum performance for mobile or base operation on choice of any six CB channels. Crystal-controlled transmit and receive. Built-in AC and DC power supplies. Extra sensitive circuit design; 12-tube performance..... \$124.50
CONTROL HEAD extends tuning to 23 channels. Also has P.A. and remote monitoring features. Plugs into Ravelle transceiver \$29.50
BULL HORN SPEAKER—weather-proof with swivel mount, 7½ watts..... \$27.00



DEMCO SATELITE BASE

Complete base station with superlative characteristics. Has 23-channel crystal-controlled switching. Receiver has five fixed channels with 23-channel variable tuning; 20-tube performance. Separate speaker and POWER/SWR meter..... \$295.00



DEMCPHONE WALKIE TALKIES

Powerful 11-transistor units with squelch controls and battery indicators. Complete including cases, earplugs and batteries. Per pair \$79.50
INTERCOM ADAPTER operates on 115/120v AC..... \$12.50

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Power Amplifiers
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and All Types of
Antennas and Mounts.

SEND—
For Descriptive
Literature — Today!



Leo I. Meyerson
KLH 7297

THIS NEW DELUXE CB TRANSCEIVER PUTS YOU ON THE AIR IN SECONDS!

**COMPLETE
NO EXTRAS
TO BUY!**



PRICE INCLUDES:
Both AC/DC Supply &
Mounting Bracket.

\$79⁹⁵

Made in
U.S.A.

\$5.00 Monthly

NEW! WRL'S "RUSTLER" CB TRANSCEIVER

Here's a New *Deluxe* American Made CB Transceiver with features you would expect to find only in CB units costing much more. WRL's *Rustler* CB Transceiver is a complete package with 115 VAC and 12 volt DC power supply, cords, mtg. bracket and PTT mike. It also includes eight crystal-controlled channels and a 23 channel, tunable, super-het receiver. (CRYSTALS FOR CH. 9 SUPPLIED)

Other important features include a positive squelch control, illuminated "S" meter, spotting switch, ANL, 3.4 watts, and a quick-change crystal socket. Beautifully designed for home or auto use! Only WRL offers you the finest for less.

CB WALKIE-TALKIE Exclusives from WRL

3 TRANSISTOR



\$9⁹⁵
ea. in pairs

- Ready to operate.
- No license needed — No age limit.
- Operates on single battery.
- Handsome - Compact Weighs 10 oz.

On the move communications. Range 1/4 mile and more — ideal conditions.

9 TRANSISTOR



\$24⁹⁵
ea. in pairs

- Range - 1-3 miles.
- Crystal controlled.
- Noise limiter switch.
- Push-to-talk switch.
- Leather case, earphone.

Ideal For Business, Pleasure & Home Use.

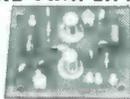
ONE WATT



\$59⁹⁵
ea. in pairs

- Professional Model.
- Range - 1-5 miles.
- FCC License required.
- 13 Transistors.

WRL'S CB PRE-AMPLIFIER



\$11⁹⁵ each
Improves any CB receiver . . .

Guaranteed to improve CB reception. Uses two 6CW4 nuvistors providing up to 20DB gain on receiver signals.
READY-TO-INSTALL

WRL

WORLD RADIO LABORATORIES
3415 West Broadway
Council Bluffs, Ia. 51504

Please Rush Me

- WRL's Rustler CB Transceiver. 3 Transistor Walkie-Talkie, \$9.95 ea. in pairs. 9 Transistor Walkie-Talkie, \$24.95 ea. in pairs. 1 Watt Walkie-Talkie, \$59.95 ea. in pairs. WRL's CB Pre-amplifier, \$11.95. Compression Amplifier, \$14.95.

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Address _____

City _____ State _____ Zip _____

NEW COMPRESSION AMPLIFIER

Made in
U.S.A.



\$14⁹⁵

A True Compressor
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- CB/HAM/COMMERCIAL USE
- Provides up to 15DB Compression.
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CB CHIT-CHAT

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SEND US ITEMS FOR THIS COLUMN!**

Address correspondence to:

**JOHN KREJC, KB18077
60 DIVISION AVENUE
GARFIELD, N. J.**

CB'ers wishing to help The Lowreys rebuild their QSL cards should send to Box 3878-P, St. Rt. B, Anchorage, Alaska. Their home recently was gutted by fire.

New appointments this month to the A.P.R.E. Program include: Mark F. Bernard, KMX4912, P.O. Box 681, Beaumont, Texas.

COMING EVENTS

State of Vermont Jamboree, The Otter Valley CB Radio Club, will sponsor the event, June 26th, State Fairgrounds, Rutland, Vermont. Contact: P.O. Box 669, Rutland, Vermont.

3rd Annual CB Jamboree, February 26th, sponsored by the Webster County Radio Rescue, Inc. to be held at National Guard Armory. Remember February 26th, Marion, Kentucky.

3rd Annual Jamboree of the Bell City CB Radio Club, October 1st and October 2nd, Lake Compounce, Bristol, Conn. Contact: Bell City CB Radio Club, P.O. Box 753, Bristol, Conn. 1st Prize, 16' Deluxe Camper. Rain or Shine.

4th Annual CB Jamboree sponsored by the Jacksonville Area Citizens Band Club, June 26th, Morgan County Fairgrounds, Jacksonville, Illinois. Contact: G. J. Jones, KHD8768, 929 Hardin Ave., Jacksonville, Ill.

CB Card Swappers get acquainted Coffee Break, every 2nd Friday each month, U.A.W.C.I.O. Hall, 2266 San Diego Ave., Old Town, California. The event is sponsored by the San Diego Coffee Breakers, San Diego, California.

The Delray Beach Radio Club, Inc., will sponsor Florida's Second Annual Sunshine CB Jamboree and Equipment Show, February 19th and 20th, Civic Center Auditorium in Delray Beach, Florida. Monitor channel 9. Contact: P.O. Box 873, Delray Beach, Florida.

1st Annual West Coast CB Jamboree, February 13th at the Scout House, Punta Gorda, Florida. Contact: W. Earle Davis, Charlotte County CB Radio Club, 520 E. Olympia Ave., Punta Gorda, Florida.

Fourth Annual Banquet of the Celestial Citizens Banders Club of Pekin, Illinois, Saturday, February 5, 1966 at 6:30 p.m. sharp. Elks Hall, Capitol and Sabella Streets, Pekin, Illinois.

CANADA

The Montreal Bilingual Radio Club reports a membership of over 35 which works with REACT and H.E.L.P. The club is just newly organized and the officers will be forthcoming. Membership fees are \$3.00 per year. News of the club comes from Neil Davy, XM524105. A summer jamboree is also planned.

SOUTHERN

The Greater Baton Rouge Citizens' Communication Association recently aided their community in cooperation with local Civil Defense authorities during "Operation Safeguard." This was the name given to the task of lifting a sunken chlorine barge which was sunk in the Mississippi River during hurricane Betsy.

The club had previously installed CB antennas in all the local T.V. and radio stations, Red Cross Headquarters, U.S. Weather Bureau, Civil Defense Head-

quarters, Fire Alarm Headquarters and public schools.

In a hurricane alert or other emergency all stations would be monitored, in this case schools and the weather bureau were not needed.

With a mobile rig stationed at the barge site, communications were sent to the local stations to give the public information during the "lift." The net was quite successful, and the stations and local authorities were pleased.

Newly formed CB Club—The Golden Try-Angle CB Club of St. Petersburg, Florida. Officers for 1965 are: President, Bud Sackett, KKP4668; Vice President, Steve Shawhan, KKP1401; Treasurer, Nick Miller, KDJ0332; Secretary, Julie Bowman, KMP1061. Look for much more from this newly organized club.

Also newly formed is the Faulkner County CB Radio Club, which meets the 3rd Thursday of each month at 7:30 p.m., American Legion Hall, Conway, Arkansas. President, Jack Harrell, KEB5496; Vice President, Gerald Lacky, KEB1333; Secretary, Alice Wagley, KKR0221; Treasurer, Vernajean Moose, KMR6064; Club Reporter, Jerry Ball, KMR6707.

WESTERN

At this writing, the Citizens Emergency Mobile Patrol, Inc. is currently attending classes in First Aid, as required refresher course for all members of this organization, in compliance with requirements set forth by law enforcement authorities, that all persons engaged in emergency communications service be certified by the Red Cross.

These classes commenced on Oct. 26th and will continue for the next 5 weeks consecutively, consist of each class of 2 to 3 hours duration. Mrs. Hazel Dunham of Encino, Cal., is a Registered Nurse and a Red Cross certified instructor.

On Nov. 2nd, 1965, Citizens Emergency Mobile Patrol, Inc., held its annual elections for 1966. The newly elected officers, members of the Board Directors are: Mr. Brian Kincade, 11A3134, President; (reelected for the 3rd year) Mr. Wally Harter, KFA1030, Vice President; Mr. Mark J. Planovsky, KKY0299, Secretary; Mr. Bill Gibb, KMX0006, Treasurer; Mr. Chuck Rutter, 11A3058, Operations Officer (reelected); Mr. George Gehr, KFA0288, Purchasing Agent. It is to be noted and added that the new Board of Directors and the membership retained Mr. Planovsky in his appointed office as Public Relations Officer, until the term of office expires end of June 1966. Therefore Mr. Planovsky will serve as Sec. and Public Rel. Officer until that time.

Also at this writing, C.E.M.P. has many functions on schedule, to name a few, currently the membership will assist in traffic control for the "Home Coming" event in the nearby city of Santa Monica, this is on Nov. 6th, Sat. a.m. Other scheduled activities are participation in the annual Hollywood Santa Claus Lane Parade of Stars on Nov. 24th; also on Sunday, Dec. 5th, C.E.M.P. will take part in the Bethlehem Star Parade in Van Nuys, Cal., additional activity will be on Sat., Dec. 11th support the Simi Valley Moose Lodge 1902 in their "Happy Holidays" Parade.

And to close out the year 1965 and begin the new year 1966 the annual participation in float escort and traffic control, assisting the Pasadena Civil Defense Office for Area "6" in the Rose Parade and Rose Bowl Game on Jan. 1st, 1966.

The Missile Valley CB Club of Alamogordo, New Mexico, held its annual election party at the Brazilian Room of the Holiday Inn in Alamogordo on Saturday, October 23, 34 members and guests attended. New officers for the coming year are Bob Abbott, reelected president, C. L. Streadwick, reelected vice president, Vivian Edminster, secretary-treasurer, Walt Edminster, director. Holdover directors are Fred Gage and Tex Clark.

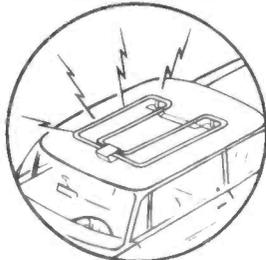
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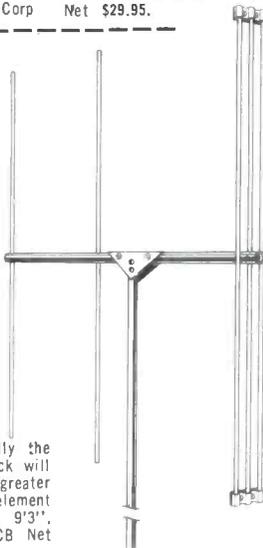
The DDDR Antenna has been designed to incorporate the electromagnetic efficiency of naturally resonant quarterwave whip antennas with a low profile which can be easily installed on vehicle roof tops and precisely tuned over a wide range of frequencies. Because of its unique design features, the DDDR Antenna will normally outperform quarter-wave mobile installations, both in transmit & receive modes. Other frequencies available—
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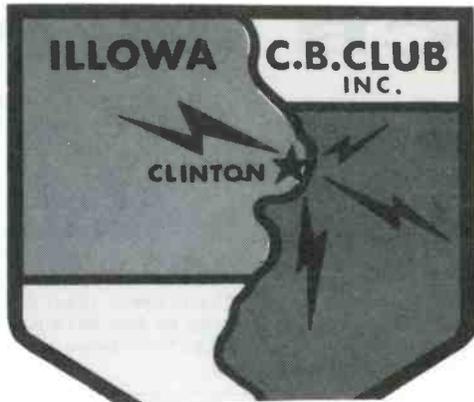
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C. L. Streadwick was presented with the CB'er of the Year Award, the first Missile Valley CB Club member to receive this acclaim. Monitoring for this award had been done without the knowledge of the general membership and only Fred Gage, the chairman, knew who the other committee members were. Fred Gage made the presentation but did not disclose the identity of other members of his committee, which is to always remain a secret. The club had voted to make this an annual award. Dancing followed the banquet and a good time was had by all.

Members of the Clovis 5 Watters, Clovis, New Mexico, again assisted the city police by helping patrol the streets on Halloween night. Last year's efforts by the club had resulted in the lowest record of vandalism in the history of the community and the club was asked to help again this year.

On Sunday, November 7, the Atomic City CB Club of Los Alamos, New Mexico was called to help in the search for a lost child in the Ghost Ranch area near Abiquiu, New Mexico. Units of the Santa Fe CB Radio Club were also alerted to stand by in case additional help was needed. However, the child was found while CB units were enroute to the area and the search was called off.

The Ark-La-Tex Two Way Radio Club of Texarkana, U.S.A. has been officially designated as an emergency team for Bowie County (Texas) Civil Defense. This association, as well as their REACT affiliation, has increased their communities interest in the club. Channel 9 has been adopted as the monitoring channel (S9 decals are available from club officers) Club members are available on either frequency.

CENTRAL

A banquet was held recently by the Citizens Band Radio Club of northern Kentucky at the Southern Trails Restaurant in Florence to honor its past officers. New slate of officers include: President, Dr. George Riley, KH16939; Vice President, Collin Simpson, KHH-2673; Secretary, Harold Kelly, KLN3069; Corr. Secretary, Glen Petty, KLM9337. The club was founded and chartered in 1960. The club call letters are KNN0364 and they use channel 18 for their road patrol on all major holidays. This patrol is sanctioned by the Kenton County, City Police and State Police.

The Laughery Valley Radio Patrol of Osgood, Indiana was formed September, 1965, solely for service to the CD. The charter is in process as is the license application. At present, there are 60 members from 5 counties meeting monthly at the Fire House in Osgood, Indiana. Officers include: Captain, Eugene Kirkpatrick, KLK-7060; 1st Lieutenant, Bill Miller, KLK7648; Lieutenant Treasurer, Dale Wendelman, KLK5170; Lieutenant Secretary, Lavon Winters, KNJ4586. A distinguished member of this club is Circuit Judge William J. Schroder of Ripley County, Indiana who is handling the club charter.

The Brent Spence CB Club of Kentucky, Inc., was formed July, 1965, and chartered in October, 1965, with 42 members. Application has been submitted for a club license. Road patrol has been formed for major holidays for 1-75 Expressway to assist travelers. The first annual picnic was staged by the club and it was a great success. It is hoped that this will be an annual affair. We feel that this club has done very well to be formed so recently.

On November 3, 1965, at approximately 11:00 p.m., several of the members of the Brent Spence CB Club were copying the mail and were informed of a fire in Park Hills, Kentucky, that had burned a family's home down, leaving them homeless, penniless, without clothes or furniture. Within fifteen minutes, contacts had been made among various members of the club and a drive was started to collect clothes, food, furniture, and money for this needy family. Radio Station WKRC in Cincinnati, Ohio, was also contacted and the club is working in conjunction with them on this drive.

Officers of the club are: President, Clifford Niemeyer, KNM3189; Vice President, Robert Teaney, KNN0814; Secretary, Ray King; Corr. Secretary, Roberta Wear, KLM1080; Treasurer, Fred Nehring, KLN9750; Sgt. at Arms, Jack Warner, KLN7284.

The Northern Hills Citizens Radio Club was formed in 1962. The present officers are: President, Andy Fladung, 19Q3197; Vice President, Cliff Lotz, KHJ-5498; Secretary, Fritz Breiner, 19Q8696; Treasurer, William Goldstein, KHG0424; Trustees, Jim Muhlenpoh, KHJ7148, Bob Lotz, KNM2834, Jack Reichwein, KHJ4426, Jack Silvernell, KHJ7063, Ernie Westhoff, KHH2525.

The club's call letters are KNM0552 with 33 assigned units.

The club is dedicated to community service where instant communications are needed. The club assisted over 600 motorists, traveled over 6,000 miles, put in over 2,000 man hours, and used over 400 gallons of gas to patrol 1-75 from the Ohio River north to the county line.

This club also had complete control over some of the largest parades in this area. Some of these were: The Shrine Parade which lasted 4 1/2 hours, the 3-State Eagle Parade, the Fire Prevention Week Parade, the Veteran's Day Parade, in Cincinnati, Ohio, and the GCL Road Rally which was sponsored by the Ford Motor Company and covered 31 1/2 miles. This was for the driving skill of local high school students.

The money to operate comes from the club dues and a dance held on Valentine's Day, plus donations of equipment from club members and friends.

This club is also a member of REACT. President, John Shank, KHA9679 of the Circus City

CB Club announces that over 5500 CB'ers attended their 1965 round-up.

Newly formed CB Club, Blockford County Channel Hoppers of Hartford City, Ind., recently held a very successful Jamboree, Over 1500 CB'ers representing 6 states attended.

Jack Dold, KHA9478, President of the Maumee Valley CB Radio Club tells S9 that over 5,000 CB'ers attended their Jamboree of last Fall. 19 States are represented and over 1,200 door prizes were awarded. Jack and the club thanks all.

The Macomb CB'ers Club, Inc. will donate \$100 worth of toys to the Macomb County Association for Retarded Children. The toys will be sent through a Detroit toy firm which is familiar with such a program as this.

This donation, the club was assured, will see that each child throughout the country will receive a toy for Christmas.

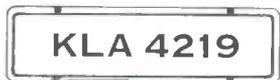
Vince Cuker, KHJ3045, President of the Macomb CB'ers Club, Inc. of Mt. Clemens, Michigan, is to give a talk on the Citizens Radio Service before the Macomb County Prosecuting Attorneys Ass'n. The talk for the association, of which Mr. Cuker is a member, will be the second Tuesday in the month of February, 1966.

The talk will cover a brief history of the CRS, then go into a program covering the unlimited advantages of having the law enforcement agencies throughout the county monitor the "state-wide" CRS emergency monitoring channel 17.

The talk will have a great determining factor as to the future possibility of having the law enforcement agencies in the county monitor this channel. The Michigan State Police, a great number of county sheriffs departments, and city police across the state now monitor channel 17.

Due to recent services performed by the Macomb CB'ers Club for the New Baltimore, and Mt. Clemens, Mich. city police departments, and receiving letters of commendation from both, the Prosecuting Attorney has asked that this program be presented to the association, and it will aid the association in their growing interest to install the monitoring system.

Officers of the Knob Twisters CB Club of Central Missouri are: President, Don Litz, KNM0903; Vice President, Martin Strones, KNH8359; Secretary, Marie



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Mendenhall, KNH2602; Treasurer, Judy Harvey, KNH-1830. Looking to hear more from the group in the future.

PACIFIC

Halloween week-end proved to be a busy one for many members of the Oregon Trail CB Club, The Dalles, Oregon. They participated in the patrol conducted by the Sheriff's office and the Police Department.

The women manned the base radios and the radio in the C.D. building, which was placed there by Harry's Radio and TV Service for this patrol. The men patrolled in their cars and each man was accompanied by a Police Reserve officer. The patrol was conducted both Saturday and Sunday nights.

This patrol has been conducted for several years, but this was the first year the club has been organized enough to assist with a project of this size.

NEW MEXICO CB'ERS SUPPORT PLAN BULLDOZER

by

Lynn M. Miller, KLE2442

Several years ago the Associated General Contractors of America, Inc., developed a plan for disaster relief in the event of natural disaster or the ravages of war upon the United States. Because of the difference in the types of disasters that might occur in various parts of the country, it was left up to member chapters of the organization to form individual plans for their particular states using the national plan as a guideline.

When the plan, called Pan Bulldozer, was drawn up for New Mexico last year, it was recognized that one of the prime requirements for the successful operation of the plan was an efficient communications system. Upon investigation of radio facilities available in New Mexico, it was discovered that the State Police Radio, and State Game and Fish Department Radio systems all had the single assignment of radiological fallout monitoring in case of nuclear attack, with all other emergency communications assigned to the RACES or "ham" network.

Because of the obvious implications of the work-load that would be the responsibility of the RACES network, the Associated Contractors of New Mexico, the state AGC chapter that organized Plan Bulldozer in New Mexico, turned to the CB'ers who had no other Civil Defense or emergency assignment. Since, because of its size, (New Mexico is the fifth largest state) the state has been divided into five disaster relief areas for Plan Bulldozer, only short distance communications are generally required . . . a requirement well suited to CB operations.

New Mexico CB'ers have responded as CB'ers all over the country respond when asked to help. Presently signed up to assist in the program in the event disaster strikes and Plan Bulldozer is activated are members of the Albuquerque Citizens Radio Association, Albuquerque; Missile Valley CB Club, Alamogordo; Eddy County Mountain-Desert Res Q Squad, Carlsbad; Clovis 5 Watters, Inc.; Clovis; Las Cruces Citizens Band Radio Club, Las Cruces; Atomic City CB Radio Club, Los Alamos; Roswell CB Patrol, Roswell; Santa Fe CB Radio Club, Santa Fe; and individual CB'ers in Deming, Farmington, Truth or Consequences, Radium Springs, Grants, and Tucumcari. Additional clubs and individuals are expected to join the program in other communities as soon as they can be contacted.

The New Mexico program to include CB'ers in Plan Bulldozer operations has aroused considerable interest in the Associated General Contractors of America headquarters in Washington, D.C., and a bulletin outlining the New Mexico program is being prepared for dissemination to the 130 chapters of the organization throughout the United States.

NORTHERN

The Berkshire 5-Watters Civil Defense members assisted the Pittsfield, Mass. Police in their Halloween patrol. The biggest offense of vandalism was the smashing and destruction of school property. The patrolling Civil Defense units were a definite deterrent to more extensive damage.

The Northern Berkshire Emergency Communications Club were out in force to assist the Adams, Massachusetts Police Department during the Halloween week-end. According to police, it was the quietest in about

20 years. The only incident worth mentioning was the discovery of an ancient kitchen stove placed in the middle of the road, intended as a road block. Police were notified soon enough to prevent any serious accident.

The First Annual Mt. Greylock Nature Ramble was termed an immense success. The Ramble was held under the auspices of the sub-committee, Operation Wonderful Town. More than 600 certificates were mailed out to hikers that participated in the hike up to the top of Mt. Greylock. The Cloud Nine Certificates are documents with a golden-colored border and bear a picture of Mt. Greylock. There were more than 2500 people that visited the famous spot and lodge on this day, October 12th, 1965.

The Northern Berkshire Emergency Communications Club supplied radio communications along the hiking route, at the base of the mountain and at the top. There was only one mishap and that was a slight accident between two cars on the road, no injuries. The hikers did very well in the foot department because most hikers were properly clothed and booted.

This will be an annual affair in the community.

There was very little vandalism to spoil the Halloween fun for the "little" trick or treaters. Police, who were assisted by auxiliary police patrols, Civil Defense, "Mt. Greylock Mobil-Ear Radio" units and area firefighters, reported the usual pranks. Several clotheslines were cut, garbage cans overturned, and souped up windows were seen all over town. The Mt. Greylock Mobil-Ears CB Radio Club did their usual efficient patrol job, donating a total of about 150 man-hours over this particular week-end. (Mt. Greylock Mobil-Ears, North Adams, Mass.)

From: S9 APRE, William Davidson, KLP8083, Glens Falls, N. Y. During the three-hour power blackout of November 9, 1965. Do to Electric Power Failure that blocked out most of the "State of New York" and parts of the Northeast.

CB radio units were provided by local CB'ers to City officials. The CB Radio force was mobilized into action. Supplying 2-way radio equipped cars. With the clearing of the Highway Emergency Locating Plan: Channel 9, for all Emergency Calls, at the time of the Electric Power Failure.



Pictured above is the Operation Standby Emergency Communications Truck of the Winchester-Frederick County CB Radio Club.

The Berkshire 5 Watters CB Radio Club had their Annual Dinner-Dance at the Holly-K Restaurant in November. It was a genuine success! Many prizes were given away to some of the 100 guests. The main door prize was won by Edward Delphia of Springfield, Mass. and the "farthest distance" prize went to Kenneth Ainsworth of Poultney, Vermont. Some of the prizes were turkeys, cases of wine, and CB accessories. A wonderful time was had by all. Mr. and Mrs. "Doc" Gray were chairmen of the event.

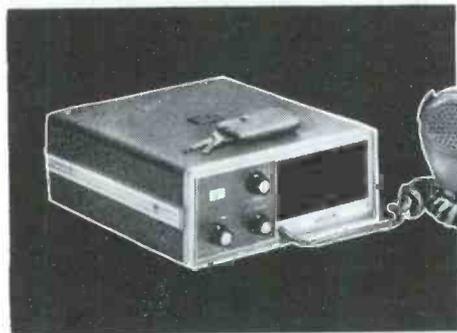
APRE for the York, Pa., area, Donald R. Shue, KKG-4329, serves as Deputy Constable for election purposes in his voting district, has his HA 150 1 watter with him while on duty during Primary and General Elections. Although he is required to remain at the polls most of the time, he does find time to go to his base 10-20, which is just a half block away, to grab a quick

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bite or two. The portable remains at the polls and he gets his base unit on the air as soon as he is in the door. Should a situation then arise that would need his attention, his poll officials would be in touch with him. Since the voting in this district takes place at a Parochial school there is no telephone available to election officials after school hours. The unit is then pressed into service in the event of an emergency with Chester Burgess, KKG5646, standing by on channel 7. To the best of this APRE's knowledge, the First Ward, First Precinct of the City of York, Pa., is the only radio controlled voting district in York city or county! Incidentally, one of the poll workers complained of how "noisy" the unit was and criticized CB. However, when it came time to eat in the evening, a call to KKG-5646 to "land-mine" an eating establishment to order food, her attitude changed and was approvingly interested!

Nomination of officers for 1966 were held at the November meeting of York CB Assistance Club. Election will be held in December prior to the Family Christmas party. Results will be listed in next month's issue.

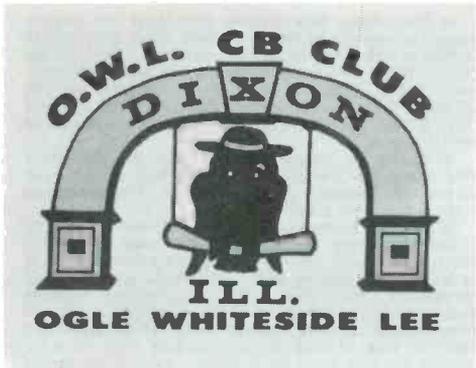
The Black Diamond Citizen's Band Club, Inc. (Wilkes-Barre, Penna.) recently held elections with the following officers being installed: President, Chester Williams, KJ10111; Vice President, Herbert Reese, KIC2939; Secretary, Philip Tannenbaum, KLP9838; Treasurer, Joseph Januszewski, KID7353; Tyler, Henry Ahren, KCD0421; and Trustees, Michael Juditz, KLP8008; Carl Mollet, KLP2186; and George Offhack, KIC4687. The club held its 3rd annual dinner-dance on November 13, 1965 in honor of the retiring officers. A Christmas party was held on December 19, 1966 for the members' children.



The Citizen's Radio Association of Rockland, Inc., recently elected new officers for the 1965-66 year. Those chosen were: Robert Knight, KMD4178, President; Fred Schley, KB11888, Vice President; Walter Johnson, KKD4838, Secretary; Elliott Sisco, KBG8458, Treasurer and Roy Winne, KMD1946 and Joseph King, KKD2548, Directors.

The club has been in existence for six years and

When experience counts, it's S9 every time!



meets the second Thursday of each month at the Pearl River, New York American Legion Hall on Railroad Avenue, at 8 p.m. Guests are always welcome.

Recently the club put on the road its Emergency Communications Vehicle, a converted Divco milk truck, which is equipped with 6 and 12 volt power supplies, as well as capabilities for 110 volt operation.

The club works closely with Rockland County Civil Defense and with local police departments, aiding in C.D. drills, search and rescue and Halloween patrols, among other activities.

They publish a monthly newsletter which is available to other clubs on an exchange basis from the club's permanent mailing address, P.O. Box 295, Nanuet, New York.

A weekly coffee break is also held every Sunday from 12 noon to 2 p.m. at The Hearth Restaurant, Route 59, Monsey, N. Y. The coffee is free and guests are always welcome.

Having recently held a successful Christmas Party, the club is now actively working on their 6th annual Jamboree to be held this spring. It promises to be the biggest and best held to date.

Further information on the club, its activities and the Jamboree from the club's mailing address.

Bouquets of praise should go to all the REACT, Civil Defense, Emergency and Rescue Teams in Western Massachusetts. The Big Blackout of November was well taken care of by all the CB radio operators in their respective areas. Most of the area clubs and Civil Defense units had mutual aid plans in motion and remained in an "alert" position.

Fortunately, the blackout did not last too long and city and town authorities had no need for further aid from CB'ers. The main part played by most units was their stand-by readiness. Congratulations should go to all simply because they WERE THERE if needed, even though most of the population didn't know it! With phone lines jammed by frantic calls, the short range CB sets were priceless!

The GEM of the Valley CB Radio Club, Box 344, Chester, Mass., is a fairly active organization. This club is very cooperative with the community in Civil Defense, Fire, and in any emergencies when called upon. Presently, the officers consist of: President, Ray Clark, KBC1833; Vice President, Douglas Seales, KBD1467; Secretary, Mrs. Myrtle Clark, KBC8096; Treasurer, Mrs. Pat Willander, KBC6124. The 5th Executive board member is Eugene A. Trudeau, KBC2486.

A new list of officers will be forthcoming very soon. Nominating committee for 1966 officers consisted of Mike Zmuda, KBC2206, and Dick Willander, KBC6124.

At the November meeting, 5 year-old Debbie Willander pulled out the winning raffle ticket and, you guessed it, an invited guest, this S9 APRE won. The prize was a beautiful G.E. Clock-Radio that would do justice to any mantle.

Citizen's Emergency Radio Patrol, C.E.R.P. celebrated its third anniversary in 1965 on Halloween Patrol on Oct. 30th and 31st for the Niagara County Sheriff's Department. Five mobile units which were on duty in strategic spots throughout the county, worked a total of 60 man hours and drove 1217 miles while handling numerous calls regarding Halloween pranks, thus freeing the regular patrol cars for the more serious work of law enforcement.

C.E.R.P. has nightly monitors on Channel 9 from 5 p.m. to 1 a.m. who have logged over 1100 man hours

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February 1966 • 45

while assisting tourists and motorists in distress. In May of 1965 a daytime monitor six days a week was initiated on Channel 9 from 8 a.m. to 5 p.m. when the night monitor takes over, thus providing a total of 17 hours daily on stand-by for emergencies.

Three C.E.R.P. Mobiles have been equipped with Emergency Oxygen Equipment during the past summer, with a fourth unit available free of charge to any needy party. Standard required equipment in all mobiles also includes: Jumper Cables, Blankets, Spare Gasoline, Tow Rope or Chain, Flares, Emergency Flashers, Portable Spot Light, First Aid Kit, Fire Extinguisher and Flashlight. One mobile unit now has an emergency generator and floodlight for search and rescue work.

Sheriff James K. Murphy and his staff from the Niagara County Sheriff's Dept. have been instrumental in the past 18 months in molding C.E.R.P. into an efficient working team. The departments suggestions as to operating procedures, equipment and future training have helped to build enthusiasm among patrol members and has given them a sense of accomplishment and a feeling of true community service. The Niagara County area has been fortunate in that we have had no major disasters or devastating storms. Should the need arise—C.E.R.P. will be trained and prepared to volunteer its services and wherever needed.

Officers of the Civil Defense Citizens Banders Club of Cuba, New York for 1966 are: President, John Lockwood, K1E0307; Vice President, Frank Greene, K1D-8432; Secretary, Peggy Lockwood, K1P4577; Treasurer, Rex Voorhies, K1P1893. Meetings are held the first Saturday of every month.

"HURRICANE BETSY"

On September 10, 1965 at approximately midnight the most vicious and devastating hurricane to ever reach the Louisiana coast slammed into the New Orleans area with winds over 150 MPH and water that covered entire subdivisions of homes. This hurricane was so powerful that it disintegrated solid brick buildings. A nuclear scientist stated to the press "Betsy contained more force than the Atom bomb that was dropped on Hiroshima."

In the greater New Orleans area there are as previously announced in S9, 2 CB clubs who's members all belong to either Red Cross, Civil Defense or the auxiliary police. These CB'ers placed themselves and their equipment at the disposal of State, Parish (County) and City officials. There is also a new group called the Crescent City CB Club. The many members of this club also offered their services.

To clarify the phrase "greater New Orleans area"; this covers four Parishes (Counties): New Orleans, Jefferson, St. Bernard, and Plaquemines. The population total is well over 1 million people.

To continue, Hurricane Betsy first battered the Bahama islands and then slammed into the southern Florida coast. When Betsy crossed Florida and entered the Gulf of Mexico all agencies in the Gulf South started taking precautions. The CB'ers with Civil Defense (Citizens Radio Emergency Service) and the members of the Jefferson Parish Sheriffs Auxiliary were put on alert. The Crescent City CB Club started checking with its members to see who would be available. When Betsy turned north and headed toward the Louisiana Gulf Coast all agencies went into action. Plaquemines and St. Bernard Parishes are due south of the city and reach to the Gulf of Mexico. Most of this area is low marsh and would be the first to feel Betsy's 175 MPH winds and also the first to receive the rising waters. New Orleans and Jefferson Parish started opening shelters for the evacuees from the low-lying areas. All Civil Defense and Red Cross agencies were in operation as well as the Jefferson Parish Sheriffs Auxiliary.

The Plaquemines, St. Bernard and Jefferson Parishes have utilized CB radio in their disaster programs for some time. These three Parishes have CB groups and base stations in their Civil Defense centers and Red Cross offices and have also added to their Sheriff's Departments with Auxiliary Deputies using Citizens Radio. However the City of New Orleans and its Civil Defense agency had shunned the use of CB. The Crescent City CB club, working with the New Orleans Police, had started to show New Orleans the wonders of the Citizens Band and the CB'ers. Early in the storm the winds of Betsy tore the antennas from the towers of the New Orleans

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Civil Defense Center and the well planned, elaborate and vital communications center that the Mayor was relying upon became unusable.

This is when the Crescent City CB club who had gathered its equipment and volunteers, offered their services to the City. The City accepted their offer and the club set up their man station at the New Orleans Red Cross office. They equipped a bus with CB to coordinate picking up the evacuees in the low areas of the City.

Hurricane Betsy passed in the night dealing a blow to the entire area that will take years to repair. Before dawn came and before the tremendous winds had diminished the destruction was visible like a nightmare. The devastation is almost undescrivable. All electric power was out and everything above ground showed signs of Betsy's fury. Whole buildings were disintegrated, trees, roofs and utility poles were scattered like someone had dropped a box of toothpicks on the floor. The entire area was stunned at the sight of the devastation, but the sight of high water covering entire subdivisions shocked the people into quick operation. The Mayor of New Orleans asked the Crescent City CB Club to set up operations in his office and to dispatch mobile units through the city of downed wires, trees, poles and debris to locations such as shelters, Red Cross centers, SPCA offices, Salvation Army headquarters and to locations where boats were being gathered to start immediate rescue operations. All this was in addition to the Civil Defense, Red Cross and Sheriffs Auxiliary. All major agencies had contact with each other through the media of Citizens Radio.

As rescue operations progressed, acts of heroism quickly became routine to most everyone. The disaster agencies were not taking time out to rest, eat or make repairs to equipment because everyone was busy routing evacuees rescued from roof tops and attics to shelters, routing SPCA units, National Guard Units, boats, generators, bodies, checking water levels and levies, checking reports of looting, overcharging and profiteering, escorting convoys of men and equipment, transporting

supplies to different areas. We could go on for pages and never touch all the ways these men and women labored. As word of the devastation spread, CB'ers from Texas and Mississippi began to move in with more equipment and volunteers. They were welcome sights because many hours had passed since Betsy departed. Men and equipment were far beyond their normal point of exhaustion but they kept working. As the rescue operations of lesser damaged areas became secure the men and equipment were sent from the Jefferson Parish Sheriff's Auxiliary and Civil Defense to assist in other areas still in rescue operations of all types. We have never seen so much effort, cooperation and so many miracles being performed by so many. Only after eight days were the CB'ers being replaced gradually as normal communications sluggishly started to function once again.

The CB'ers started to gather up their equipment and families. Many took stock of their own personal losses of homes, vehicles, equipment and personal possessions.

It will take a long time before the greater New Orleans area will be back to normal. The slow task of cleaning up is well under way now. Most families are returning to their homes to start cleaning up what they have left. However the CB'ers are still at it helping to gather food and clothing, assisting in the cleanup operations, helping to locate families separated in the storm, delivering messages and many many more ways.

The CB'ers of this area can stand tall because they did a fine job and they will receive their just reward in community praises. We are not seeking praise for the CB'ers who worked with Red Cross, Civil Defense, Salvation Army and the Jefferson Parish Sheriff's Auxiliary, the members of the Crescent City CB club and the city officials. We are seeking praise for the wives and families of these many CB'ers for their understanding, courage, support and personal sacrifice displayed before, during and after Hurricane Betsy.



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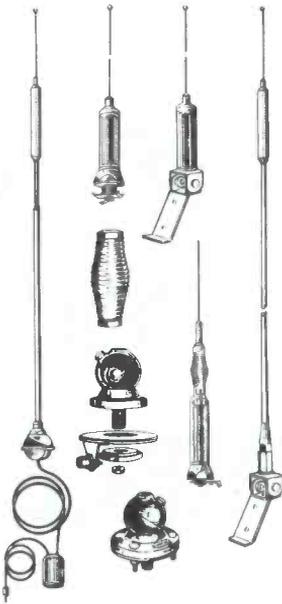
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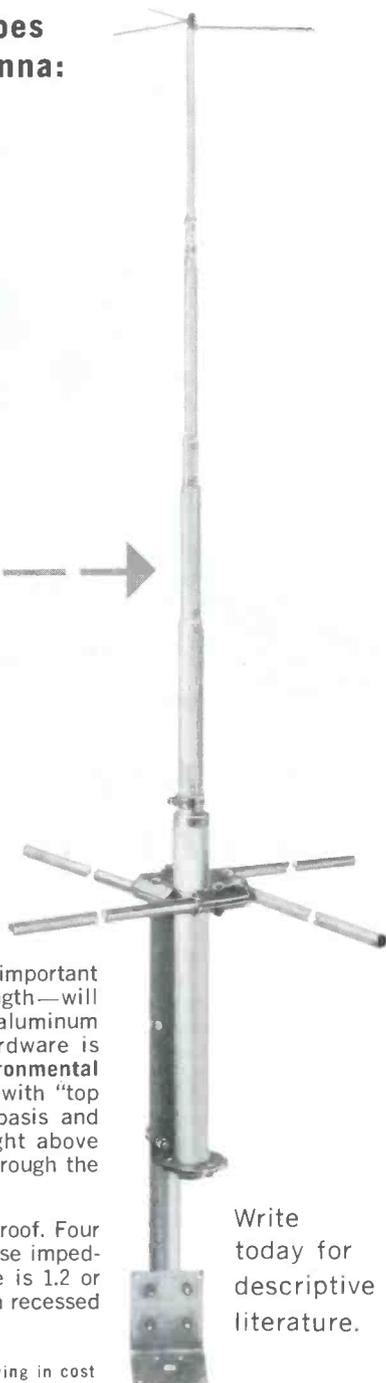
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Swappers Awards are given to those readers who have sufficiently proven that they have reached certain specified levels of achievement in QSL card swapping. There are 19 different and distinctive Swappers Awards, and if you would like a complete set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

SACA	282 S. West, KCI6261, Staunton, Va. 283 Red & Kathy Shaw, KNH3738, Kansas City, Mo.	PX-325	105 V. Gould, KLP7641, Binghamton, N. Y.
PX-25	552 L. Peck, KNP4986, Chemung, N. Y. 553 L. Litchford, KMV4210, Oklahoma City, Okla. 554 D. Getgood, KLN6367, Sanford, Michigan 555 L. Scheele, KNE1514, Dix, Nebraska 556 D. Rook, KMA0295, Windsor, Vt. 557 L. Doxey, KNP5523, Mechanicville, N. Y. 558 B. Deon, KNC0998, Portland, Oregon	PX-575	101 W. Wise, KFA4659, Anaheim, Calif.
PX-50	473 R. Ackerman, Sawyer, Michigan 474 L. Litchford, KMV4210, Oklahoma City, Okla. 475 D. Getgood, KLN6367, Sanford, Michigan 476 L. Scheele, KNE1514, Dix, Nebraska 477 J. Blythe, 3K5253, Conway, N. C. 478 D. Rook, KMA0295, Windsor, Vt. 479 P. Kilroy, KJF0255, Washington, D. C. 480 L. Peck, KNP4986, Chemung, N. Y.	PX-600	104 W. Wise, KFA4659, Anaheim, Calif.
PX-75	369 L. Scheele, KNE1514, Dix, Nebraska 370 S. West, KCI6261, Staunton, Va. 371 D. Getgood, KLN6367, Sanford, Mich. 372 D. Rook, KMA0295, Windsor, Vt. 373 E. Fell, KNA2893, FPO San Francisco 374 L. Fried, KMD0404, Bellmore, L. I.	PX-625	101 W. Wise, KFA4659, Anaheim, Calif.
PX-100	338 N. Vander, WPEIGHU, New Bedford, Mass. 339 H. Fous, Bluffton, Indiana 340 S. West, KCI6261, Staunton, Va. 341 D. Rook, KMA0295, Windsor, Vt. 342 E. Fell, KNA2893, FPO San Francisco 343 C. Pirtle, KMP2491, Ft. Myers, Fla.	PX-650	103 W. Wise, KFA4659, Anaheim, Calif.
PX-125	252 N. Vander, WPEIGHO, New Bedford, Mass.	PX-675	101 W. Wise, KFA4659, Anaheim, Calif.
PX-150	207 D. Stout, KHC4453, Chatham, Ill.	MSA	206 Red & Kathy Shaw, KNH3738, Kansas City, Mo. 207 Judge N. Littell, KNJ6056, Martinsville, Ind. 208 D. Stoneburg, KGI7912, Omaha, Nebraska
PX-175	177 G. Raybin, KBI0854, Bronx, New York 178 B. Denholtz, KBI8237, Short Hills, N. J.	SSC-1	215 Judge N. Littell, KNJ6056, Martinsville, Ind. 216 H. Fous, Bluffton, Indiana 217 D. Stout, KHC4453, Chatham, Illinois
PX-200	153 Judge N. Littell, KNJ6056, Martinsville, Ind.	SSC-2	164 D. Stoneburg, KGI7912, Omaha, Nebraska 165 Judge N. Littell, KNJ6056, Martinsville, Ind. 166 C. Marx, KLF1859, St. Paul Pk., Minn.
PX-225	132 Judge N. Littell, KNJ6056, Martinsville, Ind. 133 D. Stoneburg, KGI7912, Omaha, Nebraska	SSC-3	137 Judge N. Littell, KNJ6056, Martinsville, Ind. 138 R. Thatcher, KBG7687, Hudson, N. Y. 139 Wm. Stroud, Corning, New York
PX-250	183 R. Clogston, KKA4210, Starks, Maine 184 Judge N. Littell, KNJ6056, Martinsville, Ind. 185 Haotin' Annie, KKA3340, Poquonock Br., Conn. 186 G. Wiles, KKB5015, Williamstown, Mass.	SSC-4	128 V. Gould, KLP7641, Binghamton, N. Y. 129 Haotin' Annie, KKA3340, Poquonock Br., Conn.
PX-275	110 V. Gould, KLP7641, Binghamton, N. Y. 111 R. Thatcher, KBG7687, Hudson, N. Y. 112 Judge N. Littell, KNJ6056, Martinsville, Ind. 113 C. Marx, KLF1859, St. Paul Pk., Minn.	SSC-5	116 Haotin' Annie, KKA3340, Poquonock Br., Conn. 117 W. Howell, KDB0371, Aiken, S. C. 118 G. Wiles, KKB5015, Williamstown, Mass.
PX-300	111 E. Becker, KCG0706, Alexandria, Va. 112 V. Gould, KLP7641, Binghamton, N. Y.	SSC-20	103 Rev. G. Thayer, KNP3245, Salamanca, N. Y.
		SSC-25	101 Rev. G. Thayer, KNP3245, Salamanca, N. Y. 102 B. Ross, KCG1087, Washington, D. C.
		SSC-26	101 B. Ross, KCG1087, Washington, D. C.

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

Here are this months swappers:

IA4404	Everett Decker, Akers Pond Road, Errol, N. H.
1Q4271	Henry Sowa, P.O. Box 571, Holyoke, Mass.
1W6216	Errol Engraving, 36 Hampden St., Westfield, Mass.
2Q0152	Karl Weiss, 245 Ashmore Ave., Trenton, N. J.
2Q1147	George Delaney, 308-47th St., Union City, N. J.
2Q6980	Red Morgan, 144 Wilson Ave., Kearny, N. J.
4B5372	Jim Cross, 755 South Potomac St., Hagerstown, Md.
6Q0054	Glenn Poore, 518 Lindsay St. Apt. 2, Chattanooga, Tenn.
6W7263	Bill Orton, 905 Altamaha St., Chattanooga, Tenn.

9Q0472 Ben Bailey, 4201 Nagle, Bryan, Texas
 11Q1313 George Strainline, 1171 W, Miracle Mile, Tucson, Ariz.
 11Q2714 Eileen Inns, 530 Catalina Dr., Newport Beach, Calif.
 18B2648 Glenn Davis, 6143 N. Rockwell St., Chicago, Ill.
 18Q4913 Tom Leadbetter, R.R. 4 - Box 40, Muncie, Ind.
 18Q5121 Rodger Nordlund, 7635 W. Irving Park Rd., Chicago, Ill.
 19A8145 Gene Hecht, 26 Sheridan, Pontiac, Michigan
 19Q0707 Jim White, Box 108, Syracuse, Ohio
 19Q7741 Willard Shingleton, 1900 Belle St., Parkersburg, W. Va.
 19R8152 John Kasten, 5916 Westbrook Dr., Brookpark, Ohio
 20Q1360 Ivan Smith, 419 Water St., Danville, Pa.
 KAG2486 Dave Buda, 717 Centre St., Nutley, N.J.
 KAJ0765 J.L. Kirkland, Route 7, Raleigh, N.C.
 KAP2563 Burl Davis, R.#5, Parkersburg, W. Va.
 KAR0738 The Card Swapper, P.O. Box 411, Westfield, Mass.
 KBA4174 Harold Virgin, 14 Emery, Westbrook, Maine
 KBA5557 Ted Cummings, Bellflower Rd., Billerica, Mass.
 KBA7154 Rodney Nelson, Hideaway Lane, Norwalk, Conn.
 KBA8595 Lee Aspinall, 20 Forest Ave., North Haven, Conn.
 KBA9919 Al Trasks, RFD-2 Laconia, Gilford, N.H.
 KBB0471 Fran Smithwick, Box #62 - Rt. 1, Ellington, Conn.
 KBC0264 Everett Decker, Box 411, Westfield, Mass.
 KBC0503 Marion Thompson, 47 Paugus St., Lakeport, N.H.
 KBC4768 George Sherman, 25 Church St., Rutland, Vt.
 KBC6229 Paul Conant, 139 North Main St., Florence, Mass.
 KBC6510 Ralph Bryant, 716 Riverside Dr., Fairfield, Conn.
 KBC7179 Larry Martin, 175 Wintthrop St., New Britain, Conn.
 KBC7679 Robert Hughenin, U. of Pitts. Dorm., Titusville, Pa.
 KBC9193 John Weigel, 119 Shaw St., New London, Conn.
 KBD0747 Herb Girard, 348 Carrington Ave., Woonsocket, R.I.
 KBD1849 Paul Sanders, 5 Victor Rd., Framingham, Mass.
 KBG6576 Charles Arwine, 725 South Broad St., Trenton, N.J.
 KBG7387 Gerry Schechter, 3535 Kings College Place, Bronx, N.Y.
 KGB7687 Robert Thatcher, R.R. 1 - Box 59-B2, Hudson, N.Y.
 KBG8079 Alvin Allen, 610 Prospect Ave., Spring Lake Hts., N.J.
 KBH0248 Lee Gilbert, Box 211, Pleasant Lake, Ind.
 KBH0853 Tom Walton, 324 Kenilworth Rd., Louisville, Ky.
 KB10854 George Raybin, 1367 Sheridan Ave., Bronx, N.Y.
 KB11282 Alan Klein, 2755 Audrey Terrace, Union, N.J.
 KB12123 Richard Rios, 2897 Ardsley Rd., Wantagh, N.Y.
 KB12251 Mona French, 19 Essex Lane, Old Bridge, N.J.
 KB14513 Al Leslie, 184 Wales Ave., River Edge, N.J.
 KB15592 George Gross, Waring Road, MD. 5, Newburgh, N.Y.
 KB16025 Max Latterman, Box 608, RD#1, Princeton, N.J.
 KB16122 Diane Jacobs, 141 Pembroke St., Brooklyn, N.Y.
 KB16373 Charles Bennett, 89 Valley Rd., Haworth, N.J.
 KB16480 Art Scheid, 2 Essex Place, Hartsdale, N.Y.
 KB18077 John Krejc, 60 Division Ave., Garfield, N.J.
 KB18478 Saul, Lynbrook 11565, L.I., N.Y.
 KB18510 Robert Gannon, 322 First St., Newburgh, N.Y.
 KB19265 John Sullivan, 20-47 32 St., Astoria, L.I., N.Y.
 KBJ0753 Richie DuBois, Box 135, RD #2, Walkkill, N.Y.
 KCC2969 Bob Stouch, Box 120, R.D. 1, East Stroudsburg, Pa.
 KCD1896 Howard Taylor, South DuPont Rd., Penns Grove, N.J.
 KCD6109 Lois Lowell, R.D. 2, Sellersville, Pa.
 KCD6125 Neil O'Connell, 22 Cassatt Ave., Berwyn, Pa.
 KCF0011 Ed Kacicke, 134 Polk Dr., Manassas Park, Va.
 KCF1616 Frank Albanese, Berkeley Springs, W. Va.
 KCF2446 Robert Crigger, 411 S. Mount St., Baltimore, Md.
 KCG0706 Eddie Becker, 5606 Franconia Rd., Alexandria, Va.
 KCG1087 Barney Ross, 425 Garden St., Washington, D.C.
 KCG2216 Doris Cross, 755 South Potomac St., Hagerstown, Md.
 KCG2419 Park Bedford, 4903 Asbury Lane, Bethesda, Md.
 KCG2891 Edith Becker, 5606 Franconia Rd., Alexandria, Va.
 KCG3068 Ricky Lowman, 1001 W. Addition St., Martinsburg, W. Va.
 KCG3236 Bob Gallery, 5013 Westport Rd., Chevy Chase, Md.
 KCG3575 Jim Lott, White Post, Va.
 KCG3689 E. Ross, 1967th COMM. SQDN., APO San Francisco, Cal.
 KCG4106 Dave Royer, Rt. 1 - Box 133, Finksburg, Md.
 KC12842 Clarence Moore, Rt. 4 - Box 34, Thomasville, N.C.
 KCJ1216 James Gough, Rt. 1 - Box 4, Crozet, Va.
 KCJ2292 Hazel Stubbs, P.O. Box 1076, Rockingham, N.C.
 KCJ3880 Lee Willick, 3709 Hester Circle, Raleigh, N.C.
 KCJ4187 Joel Smyre, 747 S. Brady Ave., Newton, N.C.
 KCJ5092 Doug Paynter, 1001 East Jefferson St., Charlottesville, Va.
 KCJ6987 Tommy Pollok, Gladys, Virginia
 KCJ8516 The Morrison's, 826 Longview Dr., Woodbridge, Va.
 KCJ9615 James Surratt, Route #2, Box 86, Denton, N.C.
 KDA0334 Truman Jones, Route #8 - Box 218, Roanoke, Va.
 KDB0371 Bill Howell, 545 Palmetto Lane, S.W., Aiken, S.C.
 KDB9372 Claude Hooper, RFD, 3 - Box 130, Sylva, N.C.
 KDC1358 W.L. McKeever, 408 Lynn Ave., Lakeside, Ohio
 KDC1716 John Croke, 21 Elmwood Court, Alexandria, Ky.

KDC2091 Charlie Kreuger, Route 2, Marion, Ohio
 KDD2134 Michael Ashby, 316 S. Franklin St., Tullahoma, Tenn.
 KDI3938 Earl Barnes, Rt. 1 - Box 1594, Haines City, Fla.
 KDJ0332 Nick Miller, Box 3006, St. Petersburg, Fla.
 KEB1661 Bob Fancher, Darling, Miss.
 KEB4614 Carlos Bailey, Route 6 - Box 400, Pine Bluff, Ark.
 KEE2743 Harry Hoffpewier, 724 Coolidge Rd., Channelview, Tex.
 KEJ1049 Harry Garrison, 45503 Sarcroft Ave., Lancaster, Calif.
 KEJ1341 E.H. Rogers, 24950 E. 6th St., San Bernardino, Calif.
 KFA6387 Mark Prock, 4814 W. 131st St., Hawthorne, Calif.
 KFB0185 George Greenstein, 6357 Maryland Dr., Los Angeles, Cal.
 KFD0883 Dean Pritchard, Rt. #1 - Box 705-S, Stockton, Calif.
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 KHB1210 Larry Rost, R.R. #2, Muscatine, Iowa
 KHB2113 Risley Farms, Rural Route 4, Hwy. 15 W., Mt. Carmel, Ill.
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 KHC4453 Dick Stout, Maple Spring Farm, Chatham, Ill.
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 KLN8233 Don Gorda, 1854 Warwick, Lincoln Park, Mich.
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 KMA2418 Irving McKirryher, 42 1/2 Freeman Ave., Rutland, Vt.
 KMA2465 Tom Vecchitto, 117 So. Vine St., Meriden, Conn.
 KMA2668 Steve Shear, 177 Cherry St., Malden, Mass.
 KMA2766 Chuck Saverse, High Manor Park, Rockville, Conn.
 KMA3004 Al Pelic, 117 Plimpton St., Southbridge, Mass.
 KMA3337 Jerry Kushin, 21 Grand Ave., Nashua, N.H.
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 KMA5726 Eddie Bellar, 15 Rockland St., Fitchburg, Mass.
 KMA5991 Ron Rumary, 102 East St., Plainville, Conn.
 KMA6504 Don Lemoine, 118 Miller St., Springfield, Mass.
 KMA6506 Otis Butler, Cedar Haven Motor Couzr, Brewer, Maine
 KMA6681 Russell Grant, Breezy Hill Rd., St. Johnsbury, Vt.
 KMA7386 La LaMont, 334 Linden St., Holyoke, Mass.
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 KMD1113 Richard Harvey, 133 Morris Ave., Summit, N.J.
 KMD1314 John Humphries, 102 Lincoln Ave., East Paterson, N.J.
 KMD1755 Ronald White, St. Remy, N.Y.
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 KMM1812 Jimmy Allen, 909 Prospect Ave., Newport, Tenn.
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KNK1126 Richard Danhauer, R.R. 2, Leitchfield, Ky.
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KNM6935 Roger Weber, 6231 Highland Rd., Cleveland, Ohio
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KNM7694 Keith Carnes, 2277 Oak Park Ave., Muskegon, Mich.
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KNM9849 Harold Kraenzlein, 4049 Hess, Saginaw, Mich.
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KNP1806 John Rose, 431 Jackson St., Summerhill, Pa.
KNP1994 John Bruny, 2005-7th St., Beaver Falls, Pa.
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KNP6257 Dorothy Petty, Hudson Heights, Fort Edward, N.Y.
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KNP7640 Frank Lavelle, 222 No. Penna. Ave., Wilkes-Barre, Pa.
KNU0024 James Schubauer, 420 Haines, Fairbanks, Alaska
KNU0079 Dale Martin, 516 N. Pine St., Anchorage, Alaska
XM231343 Tom Sanders, #505, 1904-10th St. S.W., Calgary, Alberta
XM41747 Capt. Blood, R.R. 1, Orillia, Ont., Canada
XM412800 Skippy Massam, 66 Guthrie Ave., Toronto, Ont., Canada
XM431259 Denis Dubois, Box 71, Welland, Ontario
XM43614 Jacob Fehrman, R.R. 1, Port Colborne, Ont., Canada
XM431853 Jim Myers, 2542 Culp St., Niagara Falls, Ontario
XM442411 Bill Kerwin, 287 Nelson St., Sarnia, Ontario
XM522895 Bernard Rachlin, 2615 Kent Ave. #204, Montreal, Quebec
XM524176 Geoffrey Stewart, 8383 Blvd. Pie IX, Montreal, Quebec
XM53363 Francois Goyer, 259 rue Moisan, Drummondville, P.Q.
XM531209 Norbert Bilodeau, P.O. Box 122, Sherbrooke, Quebec
XM531350 Yves Ranger, 992 Perry St., Sherbrooke, Quebec
XM56721 Guy Gelinas, 2016 St. Philippe, Trois-Rivieres, P.Q.
XM631022 Bill Meakin, 2581 Creighton St., Halifax, N.S., Canada
Cent. 3250 David Sigo, Rt. 1 - Box 153, Goodland, Ind.
Cent93026 Card Swapping Dale, 125 E. Holden, Lemay, Mo.
North. 99 Everett Decker, P.O. Box 411, Westfield, Mass.
North1099 Ray McCarty, 6 Circle, Hornell, N.Y.
North3300 Tom Bolling, 233 Temple St., Fredonia, N.Y.
North10148 David Burgard, 535 N. Bedford St., Carlisle, Pa.
WPE1DRU Earl Decker, P.O. Box 411, Westfield, Mass.
WPE2NIO Sheldon Shuff, 105-57 Flatlands 8th St., Brooklyn, N.Y.
WPE2NNY Leonard Siedinski, 18 Ames Ave., Tonawanda, N.Y.
WPE4ENC Jimmy Bullock, 1628 Long Ave., Nashville, Tenn.
WPE6GAE Jim Harris, 897 Bockman Rd., San Lorenzo, Calif.

KKN0224 Jerry Bumbaugh, 316 Crest Dr., Boone, N.C.
 KKN0253 Bill Powers, P.O. Box 104, Bowling Green, S.C.
 KKN0678 Randall Thomas, Box 108, Boone, N.C.
 KKN0793 G.W. Page Box 398, Lake View, S.C.
 KKN0923 Bob Murray, 1003 S. Hickory St., Chattanooga, Tenn.
 KKN2690 Carroll Rogers, Box 178, Middletown, Conn.
 KKN3229 T. J. Gibson, Box 564, Bennettsville, S.C.
 KKN4052 Harvey Massie, Route #3 - Box 95A, Sylva, N.C.
 KKP2023 Dale Haskins, Grove Service, Lake Hamilton, Fla.
 KKP2242 Frank Wolfgang, 4729 Bay Vista Ave., Tampa, Fla.
 KKP3068 Mark Haskins, P.O. Box 182, Lake Hamilton, Fla.
 KKP4174 Gene Pairgin, 5111 68th St. North, St. Petersburg, Fla.
 KKP4125 Jack Thompson, 3710 Kinsman Ave., Ocala, Fla.
 KKP4260 Clark Dickinson, Rt. 2 - Box 50, Perry, Fla.
 KKP5254 John Saunders, 2202 E. 109th Ave., Tampa, Fla.
 KKR5223 Charles Keathley, 3005 Loma Dr., Little Rock, Ark.
 KKR6231 Mike Anderson, P.O. Box 2626, Laurel, Miss.
 KKT3640 Doc Goodwin, 4301 Nagle, Bryan, Texas
 KKT3680 Le Winder, 4204 Oaklawn St., Bryan, Texas
 KKT4113 James Bowman, Box 703, Fresno, Texas
 KKV3836 Clarence Norton, 512 W. Broadway, Longview, Texas
 KKV7967 Tom Richey, 817 Hillside Dr., Sherman, Texas
 KXX1831 Joe Stechnj, 555 W. Mahoney Ave., Mesa, Ariz.
 KXX4383 Joe Bodnar, 9309 National Blvd., Los Angeles, Calif.
 KXX5201 Dale Fletcher, 54728 El Prado Trail, Yucca Valley, Calif.
 KXX7505 Pete Gabel, 4240 Palmero Dr., Los Angeles, Calif.
 KLA5224 John Brown, P.O. Box 502, San Pablo, Calif.
 KLA3291 Paul Linehan, 2 Estabueno Dr., Orinda, Calif.
 KLA3648 Jim Cox, 1865 Michigan, Stockton, Calif.
 KLA4088 Ben Whiteman, 356 Delmar Ave., Stockton, Calif.
 KLA5065 Dennis Simonson, 127 Lee Ave., San Francisco, Calif.
 KLA5187 Ken Anderson, P.O. Box 1008, Los Gatos, Calif.
 KLA5788 T. J. & E. Saunders, 782 Hutchings Dr., San Leandro, Calif.
 KLA7292 Wayne Metzger, 4068 N. 3rd, Fresno, Calif.
 KLA7428 Jack Evans, P.O. Box 108, Ivanhoe, Calif.
 KLD2362 Richard Spengler, Route 1 - Box 48, Grangeville, Idaho
 KLE0268 Tom Raczykowski, Rt. 1 - Box 77, Laramie, Wyo.
 KLF1927 Arvin Wilson, 2090 County Rd. E., St. Paul, Minn.
 KLF2385 Bob Albrecht, 401 Liberty, Winona, Minn.
 KLF2980 Steve Butler, 822 North Glendale Ave., Tomah, Wisc.
 KL10184 The Roamer, 2615 E. 11 St., Sioux City, Iowa
 KL11123 Dick Arthur, 3424 James St., Topeka, Kansas
 KL11434 W.H. Stalons, 3903 Garfield, Lincoln, Nebraska
 KLJ0280 Al Warshaw, 1905 E - 86 St., Chicago, Ill.
 KLJ3382 Earl Gordon, 419 W. Grand Ave., Decatur, Ill.
 KLJ4024 Loren Snyder, 542 9th Ave. South, Clinton, Iowa
 KLJ4142 John Kramer, R. 1, Box 45J, 606 Highland Dr., Trevor, Wis.
 KLJ4663 Bev Chappell, 3644 E. Minnie St., Decatur, Ill.
 KLJ7000 Melvin Murphy, R.R. 1, Wapola, Ill.
 KLJ8259 Jack Jackson, Morocco, Indiana
 CLK1581 Frank Hawley, 2313 Johnson St., Keokuk, Iowa
 CLK1975 W.H. Willett, Lewisport, Ky.
 CLK2328 John Wigginton, R.R. 1, Lincoln, Ill.
 CLK2458 Lincoln Ide, 7842 So. McVicker, Oak Lawn, Ill.
 CLK4317 Pat Cavanaugh, 3620 West Southland Dr., Franklin, Wis.
 CLK4830 Francis Wagner, Elizabethtown, Indiana
 CLK4886 Charlotte Stearman, P.O. Box 326, Albany, Ill.
 CLK5488 Lorraine Regene, 2315 So. 5th St., Rockford, Ill.
 CLK5617 Chuck Sylvester, 1629 East 86th Place, Chicago, Ill.
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 KLL0297 Bob Hubsch, 179 Westwood Dr., Park Forest, Ill.
 KLL0681 Dick Stichter, 851 E. Pleasant St., Freeport, Ill.
 KLL0800 Gil Davis, 2405 Sunset Blvd., Anderson, Ind.
 KLL0809 Fritz Stearman, Albany, Ill.
 KLL1090 Reid Kenley, P.O. Box 427, Maywood, Ill.
 KLM1447 Lee Collins, 4814 Sundale, Drayton Plains, Mich.
 KLM3313 Paul Monhart, 2170 W. 63 St., Cleveland, Ohio
 KLM4343 Mike Meyer, 134 Ref St., Frankenmuth, Mich.
 KLM4842 Bessie Hazen, 231 North Mead St., Zanesville, Ohio
 KLM5832 Noel Allen, P.O. Box 54, Roseville, Ohio
 KLM5950 Jim Towe, 325 Terrace Dr., Wintersville, Ohio
 KLM7450 Bill Piper, R.F.D. #5, Box 414, Swanton, Ohio
 KLM7506 Frank Bradd, P.O. Box 336, Marshall, Mo.
 KLM7788 Charles Holland, 942 Lingle Ave., Owosso, Mich.
 KLN1475 Walter Huber, 365 Notre Dame, Grosse Pointe, Mich.
 KLN2106 Gary Lauff, 1447 Balfour, Grosse Pointe Park, Mich.
 KLN2229 Jerry Bradley, 1881 Whitefeather Rd., Pinconning, Mich.
 KLN2522 Anthony Gover, Bronston, Kentucky
 KLN2610 Joe Tylka, 1410 Maple St., West Bellaire, Ohio
 KLN3125 John Daugherty, 129 Elmore St., Zanesville, Ohio
 KLN3263 Henry Smith, 11944 Algonquin, Pinckney, Mich.
 KLN3497 Ed Newton, 2120 Irving Dr., Benton Harbor, Mich.
 KLN5264 V.A. Norling, 25 Indian Trail, Poland, Ohio

KID6356 Roscoe Harrington, 5 Schuyler St., Hudson Falls, N.Y.
 KID7260 Stan Breitkopf, 271 Stanton Lane, Rochester, N.Y.
 KID8232 Roy McGregor, R.D. 2, Central Square, N.Y.
 KIE0628 Al Gulley, R.D. 3 - Box 392, Coraopolis, Pa.
 KJC0223 J.C. McCalla, 273-G Dyea Ave., Ft. Richardson, Alaska
 KJH0032 Jere Caricofe, 2301 Norfolk St., Hopewell, Va.
 KJH0080 Robert Grubbs, Route 3, Winston-Salem, N.C.
 KJ11072 Len Siedinski, 18 Ames Ave., Tonawanda, N.Y.
 KJ12293 The Silver Eagle, 339 Harter St., Herkimer, N.Y.
 KKA0488 Cyril Wilson, 6 Collins Terrace, Lynn, Mass.
 KKA0658 Jerry Cote, 105 Old Walpole Rd., Keene, N.H.
 KKA1997 Jim McSwain, RFD 2, Windsor, Vt.
 KKA3340 Hootin Annie, 11 Fort Hill Rd., Poquonock Bridge, Conn.
 KKA4210 Dick Clogston, Starks, Maine
 KKA4762 Mark Sinkoski, 139 Main St., Ware, Mass.
 KKA5174 George Brown, 101 Truman St., New London, Conn.
 KKA5305 Chase's Engraving, 175 Kitemaug Rd., Uncasville, Conn.
 KKA5308 John Mildner, Roberts St. RD 1, Pascoag, R.I.
 KKA6048 Mike Suintava, 198 Mercier Ave., Bristol, Conn.
 KKA6265 Arnold Dakin, R.F.D. 2, Thordnike, Maine
 KKA6894 David Goodwin, 68 South Broadway, Lawrence, Mass.
 KKA7064 Irving Norman, 9 Greenfield St., Pawtucket, R.I. 02861
 KKA7402 John Flynt, Royal Coach Motel, Weirs Beach, N.H.
 KKA7994 Jim DeLude, 87 Woodward Ave., Middletown, Conn.
 KKA8101 John Moriarty, 86 Beacon St., Florence, Mass.
 KKA8428 Linda Fritzgus, 12 James St., North Haven, Conn.
 KKA8441 Leonard Prue, 11 Fort Hill Rd., Poquonock Bridge, Conn.
 KKA9690 Peter Flynn, 212 Allen St., Springfield, Mass.
 KKA9926 Brian Benkosky, 343 Washington St., Keene, N.H.
 KKB0156 Kevin Gobeille, 15 Wilson St., N. Wilbraham, Mass.
 KKB0188 Robert Grip, 60 Sexton St., New Britain, Conn.
 KKB0399 Stan Holland, South Rumford, Rumford, Maine
 KKB0748 Tom Pluta, 31 Stony Hill Road, Indian Orchard, Mass.
 KKB1198 The Shafer's, 3 Cherry St., Windsor, Vt.
 KKB1587 Al Lapointe, 60 Prospect St., New Britain, Conn.
 KKB1975 Cy Hyde, 17 Ocean St., Belfast, Maine
 KKB2242 P. Crocoddios, 42 Devens St., Indian Orchard, Mass.
 KKB2326 Bob Campbell, 5 E. Collins St., Salem, Mass.
 KKB3063 Joe Magnano, 136 Liberty St., Middletown, Conn.
 KKB3080 Elsie Randall, 71 Taylor St., Granby, Mass.
 KKB3548 John Monaco, 118 Ledgestree Ave., New Britain, Conn.
 KKB3865 David Porter, 446 West St., Rutland, Vt.
 KKB4058 Phil Gomez, Lebanon, N.H.
 KKD0491 Mike Kaplan, 37 Fairview Terr., Maplewood, N.J.
 KKD1013 Rich Werner, Box 234, Port Ewen, N.Y.
 KKD1177 Christopher Ordal, 5 Shelley Rd., Short Hills, N.J.
 KKD1746 Ivan Samuels, 179 Glenview Rd., South Orange, N.J.
 KKD1915 John Fernicola, 13 Dryden Terr., Short Hills, N.J.
 KKD1946 Al Neely, 90-26 215 Place, Queens Village, N.Y.
 KKD5471 Clifford McGulre, 814 Southard St., Trenton, N.J.
 KKD6425 Jim Marra, 160 E. Lakeview Ave., White Plains, N.Y.
 KKD6520 Mitch Chi, 47 E. Forest Ave., Teaneck, N.J.
 KKD6953 Peter Mozzone, 382 Horton Hwy., Mineola, L.I., N.Y.
 KKD7623 Vinny Cavicchi, Lake Valley Rd., Morristown, N.J.
 KKD8383 Bob Peterson, 61 Crosshill Ave., Yonkers, N.Y.
 KKD8952 Charles Gordon, 378 Kosciusko St., Brooklyn, N.Y.
 KKD9486 Willie Bergman, 248-02 76th Ave., Bellerose, N.Y.
 KKD9510 Ray Dame, 38 Vliet St., Cohoes, N.Y.
 KKE0173 Tony Russomanno, 9 School Rd., Whippany, N.J.
 KKE0365 Howard Laskow, 79 Wilson Place, Plainview, N.Y.
 KKE0366 Al Martinez, 15 Lindy Pl., Old Tappan, N.J.
 KKE0449 AJ Farber, 2554 E. 29th St., Brooklyn, N.Y.
 KKG1280 Clarence Diehl, 800 Mohican St., Bethlehem, Pa.
 KKG3074 Harold Peer, 617 Halliandare, Beachwood, N.J.
 KKG4032 Sophia Mitch, 309 South St. Cloud St., Allentown, Pa.
 KKG6020 Terry Sheppard, 2023 W. Main St., Millville, N.J.
 KKI2063 Jack Motry, 2501 Washington Blvd., Balto., Md.
 KKI2915 George Bowen, 831 W. Matthews Ave., Baltimore, Md.
 KKI3946 Don Sherman, R.D. 1 - Box 82, Bel Air, Md.
 KKI4574 William Haines, P.O. Box 333, Riverdale, Md.
 KKK0566 Archie Patton, Route 2, Raleigh, N.C.
 KKK1089 Delbert Stackpole, 1909 Laura Rd. N.W., Roanoke, Va.
 KKK1145 Jim Brizendine, 2016 Wayne St. N.E., Roanoke, Va.
 KKK2366 Jack Barber, 1659 Old Buckroe Rd., Hampton, Va.
 KKK4410 Smylie Grantham, P.O. Box 364, Raeford, N.C.
 KKK4512 Jake Sprouse, Rt. 6 - Box 279, Charlottesville, Va.
 KKK6388 Bill Ball, Box 65, Raven, Va.
 KKM1253 Buford Rippey, Florence, Ala.
 KKM2052 Linton Slacey, P.O. Box 52, Plains, Ga.
 KKM7376 Donald Wilson, 1529 Bush Blvd., Birmingham, Ala.
 KKM7482 Charles Cromer, Route 1 - Box 282A, Newberry, S.C.
 KKM7788 Claude Witt, 814 S. Webb Ave., Crossville, Tenn.
 KKM9702 James Wolfe, 1707 Merrycrest Dr., Memphis, Tenn.

Continued on page 65

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 — S9's CB Interference Manual, a complete handbook covering the elimination of TVI, detection and elimination of power line interference and noise, and CB mobile ignition noise. Everything you need to know, including details of obtaining free TVI high-pass filters. The books sells to non-subscribers for \$1, you can get it FREE.

BONUS ITEM #4 — Do-It-Yourself-S9-Editor-Kit — Yes, an official multicolored S9 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 — Jazzy blue-with-white, red-with-white or black-with-white plastic badge engraved with your callsign. Big 1" high by 3" long. Just the thing for a jamboree or use the pin to stab artichoke hearts or your aunt Maud in the clyde. \$1.50 value. Specify color combination.



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Probably one of the least known emergency radio networks in the U.S. and Canada are the Zone and Interzone police stations, frequently monitored but seldom do the monitoring stations find out the locations of these stations. They can be heard using SSB and CW on their frequencies, exchanging data of mutual interest to the stations in the net.

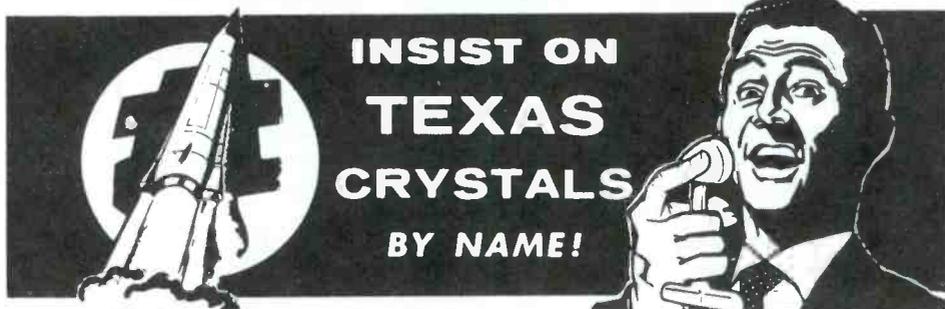
Frequencies: (CW & SSB) 2804, 2808, 2812, 5135, 5140, 5195, 7480, 7805, 7935 kc/s.

KAA45	Topeka, Kans.	Z	KIB98	Memphis, Tenn.	IZ
KAA59	Denver, Colo.		KID33	Frankfort, Ky.	Z
KAA73	Wichita, Kans.	Z	KIK52	Tallahassee, Fla.	
KAB54	Des Moines, Iowa	IZ	KKA50	Wharton, Tex.	
KAB58	Duluth, Minn.	Z	KKA51	Shreveport, La.	
KAB59	St. Louis, Mo.	IZ	KKA78	Jackson, Miss.	
KAB60	Kansas City, Mo.	IZ	KKB35	Little Rock, Ark.	Z
KAB61	Topeka, Kans.	IZ	KKB42	Longview, Tex. (temp.)	Z
KAB68	Lees Summit, Mo.	Z	KKB48	New Orleans, La.	IZ
KAB69	Macon, Mo.	Z	KKB59	Oklahoma City, Okla.	IZ
KAB70	Kirkwood, Mo.	Z	KKB60	Tulsa, Okla. (temp.)	Z
KAB72	Jefferson City, Mo.	Z	KKB79	Tulsa, Okla.	Z
KAB73	Willow Springs, Mo.	Z	KKB90	Austin, Tex.	Z
KAB74	St. Joseph, Mo.	Z	KKB91	Beaumont, Tex.	
KAB81	Poplar Bluff, Mo.	Z	KKC23	Houston, Tex.	IZ
KAB83	Rolla, Mo.	Z	KKC24	Houston, Tex.	IZ
KAB96	Salina, Kans.		KKD28	Bryan, Tex.	
KAB99	Garden City, Kans.		KKM66	Dallas, Tex.	Z
KAC51	Hutchison, Kans.		KKU61	Lawton, Ill.	
KAC52	Chanute, Kans.		KMA25	Sacramento, Calif.	IZ
KAD89	N. Springfield, Mo.	Z	KMA89	Los Angeles, Calif.	
KAL43	Lincoln, Nebr.	IZ	KMA90	Los Angeles, Calif.	
KAM84	Minneapolis, Minn.	Z	KMB99	Orange, Calif.	
KEB23	Buffalo, N. Y.	IZ	KMC36	San Diego, Calif.	
KIA33	Montgomery, Ala.		KMC90	Los Angeles, Calif.	
KIA61	Selma, Ala.	Z	KMD92	Fairmont, Calif.	
KIA63	Birmingham, Ala.	Z	KOA47	Seattle, Wash.	IZ
KIA65	Mobile, Ala.	Z	KOA51	Kelso, Wash.	
KIA79	Spartanburg, S.C.		KOA57	Olympia, Wash.	IZ
KIB60	Tampa, Fla.	IZ	KOA69	Bellingham, Wash.	
KIB63	Birmingham, Ala.	Z	KOA72	Yakima, Wash.	Z
KIB64	Atlanta, Ga.	IZ	KOA73	Spokane, Wash.	
KIB65	Louisville, Ky.	IZ	KOA74	Snoqualmie Pass, Wash.	
KIB66	Columbus, Ga.	Z	KOA79	Salem, Ore.	

KOB34	Phoenix, Ariz.	IZ	KSA38	Pendleton, Ind.	Z
KOC28	Yakima, Wash.	Z	KSA56	Greenfield, Wis.	Z
KOC29	Vancouver, Wash.		KSA57	Milwaukee, Wisc.	
KOQ57	Oregon City, Ore.	IZ	KSA58	Indianapolis, Ind.	IZ
KOS21	Tucson, Ariz.	Z	KSA59	Charlestown, Ind.	Z
KPF46	Flagstaff, Ariz.	Z	KSA84	Elgin, Ill.	Z
KQA57	East Lansing, Mich.	IZ	KSA85	DuQuoin, Ill.	Z
KQB48	Grand Rapids, Mich.	Z	KSA88	W. Lafayette, Ind.	Z
KQB49	Detroit, Mich.	IZ	KSA89	Sterling, Ill.	Z
KQB52	Toledo, Ohio		KSA90	Macomb, Ill.	Z
KQB57	Cleveland, Ohio	Z	KSA91	Pontiac, Ill.	Z
KQB58	Cincinnati, Ohio	Z	KSB23	Connersville, Ind.	Z
KQB60	Massilon, Ohio		KSB24	Putnamville, Ind.	Z
KQB61	Wilmington, Ohio		KSB41	Indianapolis, Ind.	Z
KQB62	Cambridge, Ohio		KSB46	E. St. Louis, Mo.	Z
KQB63	Findlay, Ohio		KSB47	Chicago, Ill.	Z
KQB64	Elkins, W. Va.	Z	KSB48	Peoria, Ill.	Z
KQB69	Akron, Ohio		KSB54	Urbana, Ill.	Z
KQB74	S. Charleston, W. Va.		KSB55	Urbana, Ill.	Z
KQB75	Romney, W. Va.	Z	KSB60	Rock Island, Ill.	Z
KQG55	Grand Rapids, Mich. (temp.)	Z	KSB61	Blue Island, Ill.	Z
KQG91	Marquette, Mich.	Z	KSB62	Elgin, Ill.	Z
KSA24	Springfield, Ill.		KSG38	Joliet, Ill.	
KSA25	Jasper, Ind.	Z	KSG83	Elgin, Ill.	Z
KSA26	Seymour, Ind.		XJA42	Victoria, B.C.	
KSA27	Ligonier, Ind.	Z	XJE57	Ottawa, Ont.	
KSA28	Chestertown, Ind.	Z			

S9

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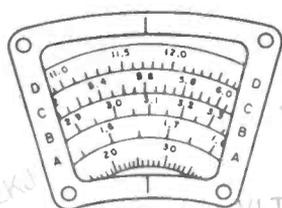
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THE SWL SHACK

BEST BETS FOR LISTENERS ON THE DX BANDS by RICK SLATTERY

Pat Laird, of Swift Current, Sask. (bet it's nice and chilly there today), says that you can hear some Canadian Air Force stations on 6720 kc/s. He also reports hearing *Vatican Radio* on 7250 kc/s at 1950 EST, *Radio Ghana* at 2230 EST on 6040 kc/s, and the following broadcast band stations: XEMO/860 kc/s, KDKA/1020 kc/s, WCAU/1210 kc/s, WSM/650 kc/s, WOAI/1200 kc/s, and CJDC/1350 kc/s. Nice going, Pat. Let's hear from you again.

Mike Forsyth, KNA1504/WB6PGT, El Cerrito, Calif., tells us to standby for some exciting reports of wild reception. OK Mike, we're waiting—what's holding up your report.

This month our station roster listing is the group of Zone and Interzone police stations which you should find interesting and useful. Next month, we will outline the entire Civil Air Patrol radio network—probably one of the largest radio networks in the world, comprising thousands of stations. We will give the keys to all of the tactical call signs used, the FCC assigned calls, and the frequencies. You'll find it a handy item.

In other monitorings, here are some schedules of interest: *Radio Nederland*, Monday thru Saturday at 1555 to 1650 EST on 6085 and 9590 kc/s, Tuesday and Friday at 1055 to 1115 EST on 11730/15425 kc/s, Sunday at 1355 to 1520 EST on 6085/9590 kc/s; *Radio Portugal*, 2200 to 2245 on 5975 kc/s, 0230 to 0400 EST on 7130/9645 kc/s; *Radio Peking*, to North America 1900 to 2000 EST on 15060/17680 kc/s, 2000 to 2200 EST on 7035/9480/11945/15080/15095 kc/s; *Radio Prague*, Sunday 0900 to 1000 EST on 15285/15448/17825 kc/s, 2000 to 2100 EST and 2230 to 2330 EST on 5930/7115/7345/9795/11990 kc/s.



The nice shack photo comes from Bob Wieland, Springfield, Mo. The kilocycle inductor is a Hallicrafters SX-99 which is hooked up to a Super Magnum minus the radials. On CB, the unit is a General MC-7 to a Mosley Devant Spectal. His loggings include: *Radio Japan*, 1900 EST on 11780 and 15135 kc/s; *Radio Havana*, 6135 kc/s at 2200 EST; *Radio Peking*, at 2000 EST on 7035, 9480, 11945 kc/s.

From S9's editor, Tom Kneitel, we learn of two automatic ocean weather stations established by the U.S. Navy. Transmitting their messages in CW, they offer unusual fare for the serious kilocycle hunter. One station, using the call signs N3S, is located at 25N/90W and operates on 5338 kc/s at 2144 EST and every three hours thereafter. The other station, N4S, is on 5340 kc/s at 2311 EST and every six hours thereafter. If you should hear either of these stations, try to copy down or record their transmissions and you might be rewarded with a QSL. Send your report to Meteorological Management Division, Naval Weapons Support Activity, Bureau of Naval Weapons, Department of the Navy, Washington, D.C. 20360.

Send in those reports, and also a few shack photos.



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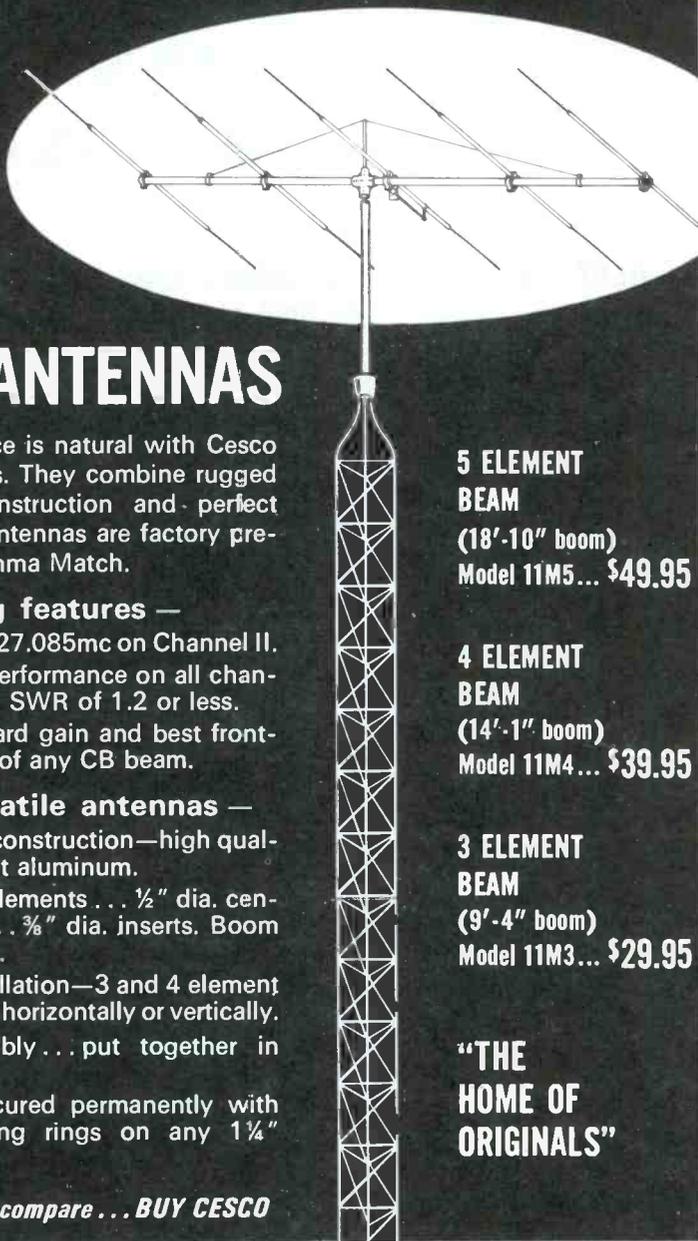
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WASHINGTON OUTLOOK

During the course of the past month, the FCC took the following actions amongst members of the CB fraternity. For instance, these CB'ers were asked to show cause why their licenses should not be revoked:

KEE0870, William D. Rawlinson, Port Arthur, Tex., for failing to reply to official communications.

KLN5588, Donald M. Tennant, Warren, Mich., failing to reply to official communications.

KKA4972, Leonard F. Ireland, Bangor, Me., failing to reply to official communications.

KNM1412, Columbus Two Way, Columbus, Ohio, for failing to reply to official communications.

KNA1457, John L. Rodrigues, Felton, Calif., failing to reply to official communications.

KFD4259, Robert Leiske, Alameda, Calif., failing to reply to official communications.

KEE3496, Shirly Jean Roach, Pasadena, Tex., for willfully violating the rules in using a station at a fixed location with an antenna in excess of 20 feet in height above ground level; for using the station for the exchange of communications relating to the technical performance of radio equipment; and operated in contravention of section 95.87(c), by Martin Doss, whose CB license (9W1371) had been revoked in January, 1965.

KDI1685, Kenneth J. Hunter, Fort Lauderdale, Fla., for failing to reply to official communications.

KKM2152, Arthur Blae, Jr., Atlanta, Ga., for failing to reply to official communications.

KGB1063, Steve P. Wawok, Denver, Colo., for failing to reply to official communications.

KKA8943, Grandville W. Davis, McKinley, Me., for failure to identify station at times and in manner prescribed by the rules; by use of non-permissible communications; and by the exchange of communications exceeding five minutes.

KHJ4817, Frank Cobb, Ostego, Mich., for failing to reply to official communications.

KIJ0367, Noel Farinacci, Ponce, P. R., for failing to reply to official communications.

KL70131, Martin Cruz, Santurce, P. R., for failing to reply to official communications.

KFD4733, Clifford W. Hathaway, Sr., San Francisco, Calif., for failing to reply to official communications.

KKX5010, Raymond R. Scholl, San Diego, Calif., for failing to reply to official communications.

KLN7149, Lindell F. Morris, Holland, Mich., for failing to reply to official communications.

KLE1619, Dave's Repair Shop, Edgewater, Colo., for failing to reply to official communications.

KEI0385, E. P. Sweatman, Jr., Denton, Tex., for failing to reply to official communications.

KMA0796, Robert E. Byron, Brockton, Mass., for failing to reply to official communications.

KGC2144, James L. Crabb, Denver, Colo., for failing to reply to official communications.

KM1101, Armand J. Girardin, Lewiston, Me., for failing to reply to official communications.

19Q3790, Charles H. Denning, Dayton, Ohio, for failing to reply to official communications.

KFA2323, Angie D. Mizer, Norwalk, Calif., for willful and repeated violations of the rules by interfering maliciously with communications of other CB stations; by transmitting music; by failing to identify station by its assigned callsign at the beginning and conclusion of each exchange of communications with other CB stations; and by failing to restrict transmissions to other stations to five consecutive minutes.

KLA7146, Rojer J. Cooney, Sunnyvale, Calif., for failing to reply to official communications.

* These CB'ers had their licenses revoked:
KDC0429, V. Bauer Trucking, Warren, Mich., for failing to reply to official communications.

KLA0271, Johnnie R. Littau, Sacramento, Calif., for failing to reply to official communications.

KLN1999, George M. Hanson, Columbus, Ohio, for failing to reply to official communications.

KLN8718, Barron H. Hoffar, Dearborn, Mich., for failing to reply to official communications concerning use of nonpermissible communications.

KEH1997, Edwin M. March, Choctaw, Okla., for failing to reply to official communications.

19Q1819, Howard L. Barklay, Marion, Ohio, for failing to reply to official communications.

KBD2328, Kenneth R. Dexter, Roxbury, Mass., for failing to reply to official communications.

KKR2910, City Cab, Sulphur, La., for failing to reply to official communications.

KHI5408, John J. Rowell, Lansing, Mich., for

failing to reply to official communications.

KHJ7141, James L. Moore, Detroit, Mich., for failing to identify station at times and in manner prescribed in the rules, and for communicating with other CB stations on a frequency not authorized for communications between units of different CB stations.

KNA1355, Robert D. Nelson, Oakland, Calif., for failing to reply to official communications.

* These CB'ers were notified that the FCC had imposed upon them a \$200 monetary forfeiture.

KBI9638, Richard Ehalt, Dumont, N. J., for failure to identify station at times and in manner prescribed in the rules, and transmitting communications not permitted.

KBI0797, Herb's Auto Body, Inc., Dumont, N. J., for failing to identify station at times and manner prescribed in the rules, and transmitting communications not permitted.

6W7228, Don C. Cooley, Gainesville, Ga., for failure to identify station by assigned callsign at beginning and conclusion of each series of transmissions, and use of station as a hobby or diversion.

KKN1374, Mrs. Louise B. Nelson, East Point, Ga., for failure to identify station by assigned callsign at beginning and conclusion of each series of transmissions, and transmitting communications to stations of other licensees which relate to technical performance or capabilities of equipment.

KKX5654, Mrs. Helen T. Alfeld, for willful violations of rules Sections 95.115 (false calls) and 95.41(d)(2) (use of station for transmission of communications not permitted by this section of the rules).

Robin L. Parker (callsign not available at press time), Barnegat, N. J., for failure to identify station by assigned callsign at beginning and conclusion of each series of transmissions, and transmitting communications not permitted.

* This CB'er not notified of a \$100 forfeiture:

KLN7451, Mrs. Mary G. Shearer, Detroit, Mich., for transmitting communications to stations of other licensees which relate to technical performance or capabilities of equipment.

* This CB'er had his \$200 forfeiture reduced to \$50:

KMM3091, E. E. Parks, Birmingham, Ala.

* This CB'er had a \$100 forfeiture reduced to \$25:

KII0432, Otis Wightman, Canandaigua, N. Y.

* All pending FCC charges against the following CB'ers were dismissed:

KMV1087, Victor F. Faughnan, Altus, Okla.

KHJ8026, Gilbert W. Brackett, Troy, Mich., license has been cancelled.

KID1715, Gerald E. Norrison, Marion, N. Y.

KMP1695, Appliance Headquarters, North Miami, Fla.

KNM0221, Wilburn H. Timmons, Dearborn Heights, Mich.

KHJ6516, James E. Jollie, Dayton, Ohio.

In other CB actions, the FCC denied the request of William C. Smithy, d/b/a Costa Mesa Welding Supply, Costa Mesa, Calif., for reconsideration of August 26 order which revoked the

license for CB station 11Q0752, effective October 4, 1965. The licensee was requested by letter in September to supplement his petition for reconsideration, but did not respond.

On November 15, 1965, Richard P. Greenside of the Mattapan (Boston) area was sentenced to one year in jail for transmitting obscene, indecent and profane language by means of radio.

On October 26, 1965, Greenside had been found guilty in the Federal District Court at Boston, Mass., of transmitting obscene, indecent and profane language over a Class D Citizens Radio station in violation of the U.S. Criminal Code, Section 1464.

Famed Washington lawyer Jeremiah Courtney made no bones about the fact that he thinks that the FCC may be spending too much time monitoring certain stations for long periods of time just to be able to drum up sufficient reasons to impose a monetary forfeiture. In a letter addressed to the FCC's Chairman, E. William Henry, on behalf of Courtney's client, the *Radio Flash Service Association* (a Chicago Taxi company). Courtney called the "watch dog" system of FCC monitoring "repugnant."



ANTENNAS

Continued from page 36

to twirl a Duo-Beam. In the instruction manual are at least six different rotator models recommended for the various Duo-Beams, which include 120-, 93-, and 42-watt models. The company also points out certain cases where CB'ers are not using a rotator. For ship-to-shore operation, for example, the beam might be permanently oriented toward water. Or if the base station is next to a large lake the beam might be installed facing toward land, etc. Some oil companies are using the beams strictly for point-to-point communications which similarly dispenses with the rotator.



KBG4303 RIDES AGAIN

Continued from page 7

(by name), denouncing it as practically an out-and-out fraud, that the manufacturer threatened legal action against both Herb and the magazine. Sticking by his guns, Herb sent the irate manufacturer the complete specifications on a series of tests which he had run on the product—the manufacturer quietly withdrew to his laboratory for some re-design work.

Anyway, the fun starts in our pages in the next issue (March). Be with us when S9 takes another growth step.

EXPENSIVE CB'ING

As usual, our mailbag this month presented us with a wealth of thought provoking material—for instance we received a letter from Margaret J. Engel, KKL5976, of Berwyn, Ill.

Margaret, it seems, lives in an area where the local Post Office was doing some remodeling,

including the installation of a whole new bank of P.O. boxes. Since Margaret has a P.O. box, she was told that her box number would be changed to conform with the new box numbering system being used.

Since this would, in effect, alter her mailing address, Margaret sought information from the FCC on the proper procedure for noting this imposed change on the records for her 1 year old CB license. Guess what? Yup, even though the government itself was the one to change her "address," she was told that it was going to cost her another \$8. In other words, she is paying \$16 within a one year period for an \$8 license, which used to be (and should still be) *free!* Something, somewhere, is wrong with a system which is established to permit this type of unfair and unrealistic treatment of a citizen.

H.R. 7749

I am being flooded by letters from panic stricken readers regarding Congressional legislation entitled H.R. 7749. It seems that this bill is being interpreted as being the harbinger of the end of the CB service. It isn't, and most of the people and clubs currently alarmed about the bill simply haven't taken the trouble to read it carefully.

Somebody even sent me an editorial clipped from another CB magazine which, in response to a piece of reader mail predicting doom for CB should the bill pass, blindly parrots all of the humbug nonsense without even analyzing it.

For those of you who haven't seen it, and for those who have seen it and pressed the panic button without understanding it, we wish to let you know that the purpose of the bill is to reinstate the *old* CB rules by killing the newer ones which were adopted in April, 1965. When the author of the bills says that the CB rules of April 26th are to be cancelled, he means that the old ones will be brought back in their place.

I can't understand how many local CB clubs (who sent me zillions of mimeographed protest form letters) could have been suckered into being turned against this potentially helpful bill. Many FCC people are confused and amused at the general CB reaction to H.R. 7749.

HELLO FROM BANGKOK?

To say that the reaction to our November editorial (International Hoax, November S9, page 70) was interesting, would be to considerably understate the facts.

For a starter, two readers wrote to defend the intentions and honor of the fellow who has been sending out the spurious CB cards claiming to be from Thailand. Several readers sent in cards which were received from foreign operators so that we could give an opinion as to their authenticity (the only clunker among the bunch was reportedly from an English CB'er, it turned out

to have been sent out from the same P.O. Box in Ohio as the Thailand card).

One letter was even received from somebody in Ohio (letter was signed with an obviously phony "humorous" name), right from the prankster's own home town. Anyway, this fellow went into a whole big, long, involved, megillah to attempt to explain why the cards were really hilariously funny, in spite of the fact that the humor was of such a nature that few laughed. The letter went on to say that the letter was in the nature of a somewhat undercover secret form of correspondence to which I could *not* refer in the magazine. The whole thing was pretty stupid, just as is the whole business of the idiotic hoax cards—about which you will probably not read any further in these pages.

If anybody is still interested in seeing this strange "secret" and "forbidden" letter of explanation, signed with the false name (although, I still can't figure out what the big secret is if all of this is supposed to be a joke), they can send me a stamped, self-addressed envelope. You judge for yourself about people who send such mail. I still don't know for sure if it is from the guy who sends out the unfunny cards, but the thought processes are similar.



WT SOUP-UP

Continued from page 12

also can flow between two conductors and short them.

The modification of walkie-talkies in this article is only for units which have the driver transistor as a permanent part of the transmitter. All other small units using 3 and 4 transistors which use the driver transistor as part of the receiver cannot use this modification.

Your project is now complete. You will be very happy with the increase in distance of your walkie-talkie through increased modulation.



CARD SWAPPERS UNLIMITED

Continued from page 57

WPE6GBC	Henry Slade, 136 Tamarack St., Vandenberg AFB, Calif.
WPE6FAN	Jon Casamajor, P.O. Box 46, Chico, Calif.
WPE8HQJ	Walter Huber, 365 Notre Dame, Grosse Pointe, Mich.
WPE8IOO	Edward Gold, 816 S. Miami Ave., Sidney, Ohio
SWL	Rich Caldeira, 16317 Molino Dr., Victorville, Calif.
SWL	Fred Lampert, 10 Green View Dr., Pequannock, N.J.
TRQ-1000	David Bubeck, 109 E. Main St., Schuylkill Haven, Pa.
OZDR1261	Palle Nielsen, Humlebaekgade 13", Copenhagen N Denmark
ONL170	Jacquet Camille, UBA P.O. Box 634, Brussels, Belgium
PR-1550	Sten Wretstrom, Skanorvagen 28, Johanneshov (Stkhlm) Sweden
	Ralph Bryant, 716 Riverside Dr., Fairfield, Conn.
	Ruth Charon, 109 Bowers St., Holyoke, Mass.
	Central Printing, 920 Vandeventer, Fayetteville, Ark.



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ATTENTION Card Swappers: Send me your card(s) and tell me where you want cards from—I'll do my best. The more you send the more you get! Please enclose 10¢ so I don't go broke doing this! Ken (the Manhattan Cliff Dweller) Eller, 99 East Fourth St., N. Y. 3, N. Y. P.S. I'll send you my ugly QSL too.

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FREE CB QSL SAMPLES. From \$2.50 per 100. Radio Press, Box 24S, Pittstown, New Jersey.

CB Crystals—\$1.75 each postpaid. Any channel, any set. QUAKER ELECTRONICS, P.O. Box 215, Hunlock Creek, Pa.

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10 crystals, low pass filter, 100' coax, ground plane antenna, \$80. Winthrop, 190-06A 69th Ave., Flushing, N. Y.

QSL's—CB . . . 18 samples 10¢ . . . Filmcrafters . . . Martins Ferry, Ohio 43935.

CB QSL's—neat—cheap—large variety of designs and card colors—1000 for \$6.50 plus postage. Catalog, samples 10¢. Sacandaga Press, Broadalbin, New York 12025.

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Under present rules part 19.32 the FCC does not provide for more than 5 watt input in the Citizens Radio Service (26.965-27.225 MC Band).



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